U-007-304 .14

5704

REMEDIAL INVESTIGATION REPORT FOR OPERABLE UNIT 5 REFERENCE APPENDICES VOLUME 3 OF 12 APPENDIX H (CONTINUED), APPENDIX I DRAFT JUNE 1994

06/23/94

DOE-FN EPA
1591
REPORT

REMEDIAL INVESTIGATION REPORT FOR OPERABLE UNIT 5

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

REMEDIAL INVESTIGATION AND FEASIBILITY STUDY

REFERENCE APPENDICES

VOLUME 3 OF 12

APPENDIX H (Continued), APPENDIX I

JUNE 1994

U.S. DEPARTMENT OF ENERGY
FERNALD FIELD OFFICE

DRAFT

H.44 OU2 - Inactive
Flyash Pile

OU2 - Inactive Fly Ash Pile

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116462	116121	113492	116345	116346
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	FERMCO	FERMCO	IT	IT	IT
WELL OR BORING NUMBER:	11002	11005	11006	11048	11048
DEPTH:	16.5-17	18-18.5	22.5-24	21-22	21-22
DATE COLLECTED:	05-MAY-93	29-APR-93	26-APR-93	25-MAY-93	25-MAY-93
NORTH COORDINATE:	478192.94	478033.72	478013.62	478159.21	478159.21
EAST COORDINATE:	1378962.84	1379014.98	1379030.41	1378974.6	1378974.6
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM							9630.00 MG/KG		J						
ANTIMONY							1.30 MG/KG		UJ						
ARSENIC							6.70 MG/KG		-						
BARIUM							132.00 MG/KG		-						
BERYLLIUM							0.53 MG/KG		U						
CADMIUM							1.30 MG/KG		U						
CALCIUM							74100.00 MG/KG		J						
CHROMIUM							34.80 MG/KG		J						
COBALT							8.70 MG/KG		-						
COPPER							249.00 MG/KG		J						
CYANIDE							0.13 MG/KG		UJ						
IRON							19600.00 MG/KG		J						
LEAD							96.60 MG/KG		J						
MAGNESIUM							24300.00 MG/KG		J						
MANGANESE							576.00 MG/KG		-						
MERCURY							0.44 MG/KG		-						
MOLYBDENUM							8.70 MG/KG		-						
NICKEL							82.30 MG/KG		J						
POTASSIUM							2900.00 MG/KG		-						
SELENIUM							0.53 MG/KG		U						
SILICON							860.00 MG/KG		J						
SILVER							8.10 MG/KG		-						
SODIUM							486.00 MG/KG		-						
THALLIUM							0.53 MG/KG		U						
VANADIUM							19.50 MG/KG		-						
ZINC							383.00 MG/KG		J						
PESTICIDES															
4,4'-DDD							4.30 UG/KG		UJ						

000003

5704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116462			116121			113492			116345			116346		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE							4.30 UG/KG		UJ						
4,4'-DDT							4.30 UG/KG		UJ						
ALDRIN							2.20 UG/KG		UJ						
ALPHA-BHC							2.20 UG/KG		UJ						
ALPHA-CHLORDANE							2.20 UG/KG		UJ						
AROCLOR-1016							43.00 UG/KG		UJ						
AROCLOR-1221							88.00 UG/KG		UJ						
AROCLOR-1232							43.00 UG/KG		UJ						
AROCLOR-1242							43.00 UG/KG		UJ						
AROCLOR-1248							43.00 UG/KG		UJ						
AROCLOR-1254							570.00 UG/KG		J						
AROCLOR-1260							43.00 UG/KG		UJ						
BETA-BHC							2.20 UG/KG		UJ						
DELTA-BHC							2.20 UG/KG		UJ						
DIELDRIN							4.30 UG/KG		UJ						
ENDOSULFAN II							4.30 UG/KG		UJ						
ENDOSULFAN SULFATE							4.30 UG/KG		UJ						
ENDOSULFAN-I							2.20 UG/KG		UJ						
ENDRIN							4.30 UG/KG		UJ						
ENDRIN ALDEHYDE							4.30 UG/KG		UJ						
ENDRIN KETONE							4.30 UG/KG		UJ						
GAMMA-BHC (LINDANE)							2.20 UG/KG		UJ						
GAMMA-CHLORDANE							2.20 UG/KG		UJ						
HEPTACHLOR							2.20 UG/KG		UJ						
HEPTACHLOR EPOXIDE							2.20 UG/KG		UJ						
METHOXYCHLOR							22.00 UG/KG		UJ						
TOXAPHENE							220.00 UG/KG		UJ						
RADIONUCLIDES															
URANIUM-238							803.00 PCI/G	179	-						
URANIUM, TOTAL	11.00 MG/KG		UNV	12.00 MG/KG		NV	1714.00 MG/KG	243	-	10.30 MG/KG	2.8	-	9.18 MG/KG	2.66	-
URANIUM-234							771.00 PCI/G	172	-						
THORIUM-230							1.11 PCI/G	2.37	-						
RADIUM-226							9.74 PCI/G	.799	-	0.72 PCI/G	.11	-			
URANIUM-235/236							49.10 PCI/G	12	-						
THORIUM-232							1.12 PCI/G	.271	-						
THORIUM, TOTAL							10.30 MG/KG	2.49	-						
RADIUM-228							1.23 PCI/G	.347	-	0.73 PCI/G	.18	-			
THORIUM-228							1.03 PCI/G	.252	-						
NEPTUNIUM-237							0.20 PCI/G	.0508	UJ						
PLUTONIUM-239/240							0.20 PCI/G		UJ						
PLUTONIUM-238							0.20 PCI/G		UJ						
STRONTIUM-90							0.50 PCI/G		UJ						
TECHNETIUM-99							1.00 PCI/G		UJ						

000004

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

DRAFT
Page 3

SAMPLE NUMBER:	116462			116121			113492			116345			116346		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106							1.30 PCI/G		UJ	1.00 PCI/G		UJ			
CESIUM-137							0.20 PCI/G		UJ	0.20 PCI/G		UJ			
GROSS ALPHA							1132.00 PCI/G	232	J						
GROSS BETA							825.00 PCI/G	166	J						
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE							430.00 UG/KG		UJ						
1,2-DICHLOROBENZENE							430.00 UG/KG		UJ						
1,3-DICHLOROBENZENE							430.00 UG/KG		UJ						
1,4-DICHLOROBENZENE							430.00 UG/KG		UJ						
2,4,5-TRICHLOROPHENOL							1100.00 UG/KG		UJ						
2,4,6-TRICHLOROPHENOL							430.00 UG/KG		UJ						
2,4-DICHLOROPHENOL							430.00 UG/KG		UJ						
2,4-DIMETHYLPHENOL							430.00 UG/KG		UJ						
2,4-DINITROPHENOL							1100.00 UG/KG		UJ						
2,4-DINITROTOLUENE							430.00 UG/KG		UJ						
2,6-DINITROTOLUENE							430.00 UG/KG		UJ						
2-BENZYL-4-CHLOROPHENOL							430.00 UG/KG		UJ						
2-CHLORONAPHTHALENE							430.00 UG/KG		UJ						
2-CHLOROPHENOL							430.00 UG/KG		UJ						
2-METHYLNAPHTHALENE							430.00 UG/KG		UJ						
2-METHYLPHENOL							430.00 UG/KG		UJ						
2-NITROANILINE							1100.00 UG/KG		UJ						
2-NITROPHENOL							430.00 UG/KG		UJ						
3,3'-DICHLOROBENZIDINE							430.00 UG/KG		UJ						
3-NITROANILINE							1100.00 UG/KG		UJ						
4,6-DINITRO-2-METHYLPHENOL							1100.00 UG/KG		UJ						
4-BROMOPHENYL PHENYL ETHER							430.00 UG/KG		UJ						
4-CHLORO-3-METHYLPHENOL							430.00 UG/KG		UJ						
4-CHLOROPHENYLPHENYL ETHER							430.00 UG/KG		UJ						
4-METHYLPHENOL							10.00 UG/KG		J						
4-NITROANILINE							1100.00 UG/KG		UJ						
4-NITROPHENOL							1100.00 UG/KG		UJ						
ACENAPHTHENE							430.00 UG/KG		UJ						
ACENAPHTHYLENE							430.00 UG/KG		UJ						
ANTHRACENE							3.00 UG/KG		J						
BENZO(A)ANTHRACENE							8.00 UG/KG		J						
BENZO(A)PYRENE							7.00 UG/KG		J						
BENZO(B)FLUORANTHENE							5.00 UG/KG		J						
BENZO(G,H,I)PERYLENE							4.00 UG/KG		J						
BENZO(K)FLUORANTHENE							6.00 UG/KG		J						
BENZOIC ACID							2100.00 UG/KG		U						
BENZYL ALCOHOL							430.00 UG/KG		UJ						
BIS(2-CHLOROETHOXY)METHANE							430.00 UG/KG		UJ						

000005

52047

SAMPLE NUMBER:	116462			116121			113492			116345			116346		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROETHYL)ETHER							430.00 UG/KG		UJ						
BIS(2-CHLOROISOPROPYL) ETHER							430.00 UG/KG		UJ						
BIS(2-ETHYLHEXYL)PHTHALATE							2.00 UG/KG		J						
BUTYL BENZYL PHTHALATE							430.00 UG/KG		UJ						
CARBAZOLE							1.00 UG/KG		J						
CHRYSENE							8.00 UG/KG		J						
DI-N-BUTYL PHTHALATE							430.00 UG/KG		UJ						
DI-N-OCTYL PHTHALATE							430.00 UG/KG		UJ						
DIBENZO(A,H)ANTHRACENE							2.00 UG/KG		J						
DIBENZOFURAN							430.00 UG/KG		UJ						
DIETHYL PHTHALATE							430.00 UG/KG		UJ						
DIMETHYL PHTHALATE							430.00 UG/KG		UJ						
FLUORANTHENE							16.00 UG/KG		J						
FLUORENE							430.00 UG/KG		UJ						
HEXACHLOROBENZENE							430.00 UG/KG		UJ						
HEXACHLOROBUTADIENE							430.00 UG/KG		UJ						
HEXACHLOROCYCLOPENTADIENE							430.00 UG/KG		UJ						
HEXACHLOROETHANE							430.00 UG/KG		UJ						
INDENO(1,2,3-CD)PYRENE							4.00 UG/KG		J						
ISOPHORONE							4.00 UG/KG		J						
N-NITROSO-DI-N-PROPYLAMINE							430.00 UG/KG		UJ						
N-NITROSODIMETHYLAMINE							430.00 UG/KG		UJ						
N-NITROSODIPHENYLAMINE							430.00 UG/KG		UJ						
NAPHTHALENE							430.00 UG/KG		UJ						
NITROBENZENE							430.00 UG/KG		UJ						
P-CHLOROANILINE							430.00 UG/KG		UJ						
PENTACHLOROPHENOL							1100.00 UG/KG		UJ						
PHENANTHRENE							10.00 UG/KG		J						
PHENOL							2.00 UG/KG		J						
PYRENE							14.00 UG/KG		J						
TRIBUTYL PHOSPHATE							2.00 UG/KG		J						

000006

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116349	116350	116355	116360	116451
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	IT	INORGANICS-EPM	INORGANICS-EPM	IT
WELL OR BORING NUMBER:	11048	11048	11049	11049	11050
DEPTH:	26-27.5	26-27.5	6.5-8	11-12.5	10-12
DATE COLLECTED:	26-MAY-93	26-MAY-93	27-MAY-93	28-MAY-93	03-JUN-93
NORTH COORDINATE:	478159.21	478159.21	478207.49	478207.49	478172.18
EAST COORDINATE:	1378974.6	1378974.6	1379013.23	1379013.23	1378937.21
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM, TOTAL	0.85 MG/KG		UJ	1.60 MG/KG		UJ	11.00 MG/KG		UNV	11.00 MG/KG		UNV	4.74 MG/KG	2.74	-
RADIUM-226	0.57 PCI/G	.11	-												
THORIUM, TOTAL							18.00 MG/KG		UNV	18.00 MG/KG		UNV			
RADIUM-228	0.50 PCI/G	.19	UJ												
RUTHENIUM-106	1.00 PCI/G		UJ												
CESIUM-137	0.20 PCI/G		UJ												

000007

5704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116452	116453	116456	116457	116458
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	INORGANICS-EPM	INORGANICS-EPM	IT	IT
WELL OR BORING NUMBER:	11050	11050	11050	11050	11050
DEPTH:	10-12	10-12	16-18	16-18	16-18
DATE COLLECTED:	03-JUN-93	03-JUN-93	07-JUN-93	07-JUN-93	07-JUN-93
NORTH COORDINATE:	478172.18	478172.18	478172.18	478172.18	478172.18
EAST COORDINATE:	1378937.21	1378937.21	1378937.21	1378937.21	1378937.21
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM, TOTAL	6.70 MG/KG	3.18	-	11.00 MG/KG		UNV	11.00 MG/KG		UNV	8.18 MG/KG	3.17	-	2.67 MG/KG	2.64	-
RADIUM-226	0.77 PCI/G	.15	-							1.07 PCI/G	.15	-			
THORIUM, TOTAL				18.00 MG/KG		UNV	18.00 MG/KG		UNV						
RADIUM-228	0.80 PCI/G	.23	-							1.49 PCI/G	.26	-			
RUTHENIUM-106	1.00 PCI/G		UJ							1.00 PCI/G		UJ			
CESIUM-137	0.20 PCI/G		UJ							0.20 PCI/G		UJ			

000008

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116438	116441	116447	116448	116433
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	IT/RSL	IT	IT	IT
WELL OR BORING NUMBER:	11051	11051	11051	11051	11052
DEPTH:	21-22	22-24	28-30	28-30	25-27
DATE COLLECTED:	27-MAY-93	27-MAY-93	27-MAY-93	27-MAY-93	25-MAY-93
NORTH COORDINATE:	477985.59	477985.59	477985.59	477985.59	478012.5
EAST COORDINATE:	1379026.36	1379026.36	1379026.36	1379026.36	1379007.41
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM				12200.00 MG/KG		-									
ANTIMONY				3.30 MG/KG		UJ									
ARSENIC				49.70 MG/KG		-									
BARIUM				220.00 MG/KG		-									
BERYLLIUM				1.10 MG/KG		-									
CADMIUM				1.30 MG/KG		U									
CALCIUM				64400.00 MG/KG		-									
CHROMIUM				32.10 MG/KG		-									
COBALT				18.20 MG/KG		-									
COPPER				258.00 MG/KG		-									
CYANIDE				0.16 MG/KG		-									
IRON				22600.00 MG/KG		-									
LEAD				400.00 MG/KG		-									
MAGNESIUM				15200.00 MG/KG		-									
MANGANESE				858.00 MG/KG		-									
MERCURY				0.51 MG/KG		J									
MOLYBDENUM				9.20 MG/KG		-									
NICKEL				65.10 MG/KG		-									
POTASSIUM				2060.00 MG/KG		-									
SELENIUM				0.98 MG/KG		J									
SILICON				1250.00 MG/KG		J									
SILVER				9.40 MG/KG		-									
SODIUM				663.00 MG/KG		-									
THALLIUM				0.54 MG/KG		U									
VANADIUM				24.10 MG/KG		-									
ZINC				372.00 MG/KG		-									
PESTICIDES															
4,4'-DDD				4.50 UG/KG		UJ									

600000

6704

SAMPLE NUMBER:	116438			116441			116447			116448			116433		
LAB:				IT/RSL											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE				4.50 UG/KG		UJ									
4,4'-DDT				4.50 UG/KG		UJ									
ALDRIN				2.30 UG/KG		UJ									
ALPHA-BHC				2.30 UG/KG		UJ									
ALPHA-CHLORDANE				2.30 UG/KG		UJ									
AROCLOR-1016				45.00 UG/KG		UJ									
AROCLOR-1221				91.00 UG/KG		UJ									
AROCLOR-1232				45.00 UG/KG		UJ									
AROCLOR-1242				45.00 UG/KG		UJ									
AROCLOR-1248				45.00 UG/KG		UJ									
AROCLOR-1254				180.00 UG/KG		J									
AROCLOR-1260				45.00 UG/KG		UJ									
BETA-BHC				2.30 UG/KG		UJ									
DELTA-BHC				2.30 UG/KG		UJ									
DIELDRIN				4.50 UG/KG		UJ									
ENDOSULFAN II				4.50 UG/KG		UJ									
ENDOSULFAN SULFATE				4.50 UG/KG		UJ									
ENDOSULFAN-I				2.30 UG/KG		UJ									
ENDRIN				4.50 UG/KG		UJ									
ENDRIN ALDEHYDE				4.50 UG/KG		UJ									
ENDRIN KETONE				4.50 UG/KG		UJ									
GAMMA-BHC (LINDANE)				2.30 UG/KG		UJ									
GAMMA-CHLORDANE				2.30 UG/KG		UJ									
HEPTACHLOR				2.30 UG/KG		UJ									
HEPTACHLOR EPOXIDE				2.30 UG/KG		UJ									
METHOXYCHLOR				23.00 UG/KG		UJ									
TOXAPHENE				230.00 UG/KG		UJ									
RADIONUCLIDES															
URANIUM-238	1570.00 PCI/G	370	-	763.00 PCI/G	165	-									
URANIUM, TOTAL	3580.00 MG/KG	510	-	2280.00 MG/KG	320	-	15.10 MG/KG	3.8	-	7.07 MG/KG	2.74	-	4.35 MG/KG	2.66	-
URANIUM-234	1380.00 PCI/G	320	-	726.00 PCI/G	157	-									
THORIUM-230	121.00 PCI/G	26	-	74.90 PCI/G	16.6	-									
RADIUM-226	37.80 PCI/G	2.7	-	42.30 PCI/G	3.1	-				0.83 PCI/G	.15	-			
URANIUM-235/236	68.80 PCI/G	18.8	-	35.50 PCI/G	10	-									
THORIUM-232	2.54 PCI/G	1.026	-	1.77 PCI/G	.6057	-									
THORIUM, TOTAL	23.10 MG/KG	9.4	-	16.10 MG/KG	5.5	-									
RADIUM-228	3.04 PCI/G	.71	-	2.29 PCI/G	.56	-				0.74 PCI/G	.24	-			
THORIUM-228	2.44 PCI/G	1.01	-	1.38 PCI/G	.53	-									
NEPTUNIUM-237	37.30 PCI/G	9.9	N	1.91 PCI/G	.5305	N									
PLUTONIUM-239/240	1.77 PCI/G	.94	J	0.38 PCI/G	.171	J									
PLUTONIUM-238	1.85 PCI/G	.94	J	0.43 PCI/G	.184	J									
STRONTIUM-90	0.86 PCI/G	.141	J	0.50 PCI/G		UJ									
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ									

000010

SAMPLE NUMBER:	116438			116441			116447			116448			116433		
LAB:	IT			IT											
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	2.54 PCI/G		UJ	1.98 PCI/G		UJ				1.00 PCI/G		UJ			
CESIUM-137	0.29 PCI/G		UJ	0.23 PCI/G		UJ				0.20 PCI/G		UJ			
GROSS ALPHA	2030.00 PCI/G	410	J	1490.00 PCI/G	300	J									
GROSS BETA	1810.00 PCI/G	360	-	1210.00 PCI/G	240	-									
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				450.00 UG/KG		U									
1,2-DICHLOROBENZENE				450.00 UG/KG		U									
1,3-DICHLOROBENZENE				450.00 UG/KG		U									
1,4-DICHLOROBENZENE				450.00 UG/KG		U									
2,4,5-TRICHLOROPHENOL				1100.00 UG/KG		U									
2,4,6-TRICHLOROPHENOL				450.00 UG/KG		U									
2,4-DICHLOROPHENOL				450.00 UG/KG		U									
2,4-DIMETHYLPHENOL				450.00 UG/KG		U									
2,4-DINITROPHENOL				2200.00 UG/KG		UJ									
2,4-DINITROTOLUENE				450.00 UG/KG		U									
2,6-DINITROTOLUENE				450.00 UG/KG		U									
2-BENZYL-4-CHLOROPHENOL				450.00 UG/KG		UJ									
2-CHLORONAPHTHALENE				450.00 UG/KG		U									
2-CHLOROPHENOL				450.00 UG/KG		U									
2-METHYLNAPHTHALENE				450.00 UG/KG		U									
2-METHYLPHENOL				450.00 UG/KG		U									
2-NITROANILINE				1100.00 UG/KG		U									
2-NITROPHENOL				450.00 UG/KG		U									
3,3'-DICHLOROBENZIDINE				450.00 UG/KG		U									
3-NITROANILINE				1100.00 UG/KG		U									
4,6-DINITRO-2-METHYLPHENOL				1100.00 UG/KG		U									
4-BROMOPHENYL PHENYL ETHER				450.00 UG/KG		U									
4-CHLORO-3-METHYLPHENOL				450.00 UG/KG		U									
4-CHLOROPHENYLPHENYL ETHER				450.00 UG/KG		U									
4-METHYLPHENOL				54.00 UG/KG		J									
4-NITROANILINE				1100.00 UG/KG		U									
4-NITROPHENOL				1100.00 UG/KG		U									
ACENAPHTHENE				450.00 UG/KG		U									
ACENAPHTHYLENE				450.00 UG/KG		U									
ANTHRACENE				450.00 UG/KG		U									
BENZO(A)ANTHRACENE				100.00 UG/KG		J									
BENZO(A)PYRENE				88.00 UG/KG		J									
BENZO(B)FLUORANTHENE				81.00 UG/KG		J									
BENZO(G,H,I)PERYLENE				57.00 UG/KG		J									
BENZO(K)FLUORANTHENE				84.00 UG/KG		J									
BENZOIC ACID				2200.00 UG/KG		U									
BENZYL ALCOHOL				450.00 UG/KG		UR									
BIS(2-CHLOROETHOXY)METHANE				450.00 UG/KG		U									

000011

5704

SAMPLE NUMBER:	116438			116441			116447			116448			116433		
LAB:				IT/MWL											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROETHYL)ETHER				450.00 UG/KG		U									
BIS(2-CHLOROISOPROPYL) ETHER				450.00 UG/KG		U									
BIS(2-ETHYLHEXYL)PHTHALATE				160.00 UG/KG		J									
BUTYL BENZYL PHTHALATE				450.00 UG/KG		U									
CARBAZOLE				450.00 UG/KG		U									
CHRYSENE				110.00 UG/KG		J									
DI-N-BUTYL PHTHALATE				55.00 UG/KG		J									
DI-N-OCTYL PHTHALATE				450.00 UG/KG		UJ									
DIBENZO(A,H)ANTHRACENE				450.00 UG/KG		UJ									
DIBENZOFURAN				450.00 UG/KG		U									
DIETHYL PHTHALATE				450.00 UG/KG		U									
DIMETHYL PHTHALATE				450.00 UG/KG		U									
FLUORANTHENE				260.00 UG/KG		J									
FLUORENE				450.00 UG/KG		U									
HEXACHLOROBENZENE				450.00 UG/KG		U									
HEXACHLOROBUTADIENE				450.00 UG/KG		U									
HEXACHLOROCYCLOPENTADIENE				450.00 UG/KG		U									
HEXACHLOROETHANE				450.00 UG/KG		U									
INDENO(1,2,3-CD)PYRENE				46.00 UG/KG		J									
ISOPHORONE				450.00 UG/KG		U									
N-NITROSO-DI-N-PROPYLAMINE				450.00 UG/KG		U									
N-NITROSODIMETHYLAMINE				450.00 UG/KG		U									
N-NITROSODIPHENYLAMINE				450.00 UG/KG		U									
NAPHTHALENE				450.00 UG/KG		U									
NITROBENZENE				450.00 UG/KG		U									
P-CHLOROANILINE				450.00 UG/KG		U									
PENTACHLOROPHENOL				1100.00 UG/KG		U									
PHENANTHRENE				210.00 UG/KG		J									
PHENOL				450.00 UG/KG		U									
PYRENE				220.00 UG/KG		J									
TRIBUTYL PHOSPHATE				200.00 UG/KG		J									
VOLATILES															
1,1,1-TRICHLOROETHANE				14.00 UG/KG		U									
1,1,2,2-TETRACHLOROETHANE				14.00 UG/KG		U									
1,1,2-TRICHLOROETHANE				14.00 UG/KG		U									
1,1-DICHLOROETHANE				14.00 UG/KG		U									
1,1-DICHLOROETHENE				14.00 UG/KG		U									
1,2-DICHLOROETHANE				14.00 UG/KG		UJ									
1,2-DICHLOROETHENE (TOTAL)				14.00 UG/KG		U									
1,2-DICHLOROPROPANE				14.00 UG/KG		U									
2-BUTANONE				14.00 UG/KG		U									
2-HEXANONE				14.00 UG/KG		U									
4-METHYL-2-PENTANONE				14.00 UG/KG		U									

000012

SAMPLE NUMBER:	116438			116441			116447			116448			116433		
LAB:				IT/RSL											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
ACETONE				14.00 UG/KG		U									
BENZENE				14.00 UG/KG		U									
BROMODICHLOROMETHANE				14.00 UG/KG		U									
BROMOFORM				14.00 UG/KG		U									
BROMOMETHANE				14.00 UG/KG		U									
CARBON DISULFIDE				14.00 UG/KG		U									
CARBON TETRACHLORIDE				14.00 UG/KG		U									
CHLOROBENZENE				14.00 UG/KG		U									
CHLOROETHANE				14.00 UG/KG		U									
CHLOROFORM				14.00 UG/KG		U									
CHLOROMETHANE				14.00 UG/KG		U									
CIS-1,3-DICHLOROPROPENE				14.00 UG/KG		U									
DIBROMOCHLOROMETHANE				14.00 UG/KG		U									
ETHYLBENZENE				14.00 UG/KG		U									
METHYLENE CHLORIDE				14.00 UG/KG		U									
STYRENE				14.00 UG/KG		U									
TETRACHLOROETHENE				14.00 UG/KG		U									
TOLUENE				14.00 UG/KG		U									
TRANS-1,3-DICHLOROPROPENE				14.00 UG/KG		U									
TRICHLOROETHENE				14.00 UG/KG		U									
VINYL ACETATE				14.00 UG/KG		U									
VINYL CHLORIDE				14.00 UG/KG		U									
XYLENES, TOTAL				14.00 UG/KG		U									

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116427	116419	116423	116421	116425
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT/RSL	IT	IT	IT	IT
WELL OR BORING NUMBER:	11052	11053	11053	11053	11053
DEPTH:	19-21	18-20	18-20	24-26	24-26
DATE COLLECTED:	25-MAY-93	20-MAY-93	20-MAY-93	21-MAY-93	21-MAY-93
NORTH COORDINATE:	478012.5	478007.29	478007.29	478007.29	478007.29
EAST COORDINATE:	1379007.41	1379053.79	1379053.79	1379053.79	1379053.79
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	13900.00 MG/KG		-												
ANTIMONY	2.10 MG/KG		J												
ARSENIC	35.50 MG/KG		-												
BARIUM	222.00 MG/KG		-												
BERYLLIUM	1.60 MG/KG		-												
CADMIUM	1.30 MG/KG		U												
CALCIUM	31400.00 MG/KG		-												
CHROMIUM	22.00 MG/KG		-												
COBALT	14.60 MG/KG		-												
COPPER	92.30 MG/KG		-												
CYANIDE	0.13 MG/KG		U												
IRON	20100.00 MG/KG		-												
LEAD	193.00 MG/KG		-												
MAGNESIUM	9120.00 MG/KG		-												
MANGANESE	432.00 MG/KG		-												
MERCURY	0.46 MG/KG		-												
MOLYBDENUM	7.40 MG/KG		-												
NICKEL	54.40 MG/KG		-												
POTASSIUM	2050.00 MG/KG		-												
SELENIUM	1.80 MG/KG		-												
SILICON	1090.00 MG/KG		-												
SILVER	7.90 MG/KG		-												
SODIUM	225.00 MG/KG		-												
THALLIUM	0.53 MG/KG		U												
VANADIUM	41.30 MG/KG		-												
ZINC	324.00 MG/KG		-												
PESTICIDES															
4,4'-DDD	4.50 UG/KG		U												

000014

SAMPLE NUMBER:	116427			116419			116423			116421			116425		
LAB:	IT/RSL														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	4.50 UG/KG		U												
4,4'-DDT	4.50 UG/KG		U												
ALDRIN	2.30 UG/KG		U												
ALPHA-BHC	2.30 UG/KG		U												
ALPHA-CHLORDANE	2.30 UG/KG		U												
AROCLOR-1016	45.00 UG/KG		U												
AROCLOR-1221	92.00 UG/KG		U												
AROCLOR-1232	45.00 UG/KG		U												
AROCLOR-1242	45.00 UG/KG		U												
AROCLOR-1248	45.00 UG/KG		U												
AROCLOR-1254	45.00 UG/KG		U												
AROCLOR-1260	45.00 UG/KG		U												
BETA-BHC	2.30 UG/KG		U												
DELTA-BHC	2.30 UG/KG		UJ												
DIELDRIN	4.50 UG/KG		U												
ENDOSULFAN II	4.50 UG/KG		U												
ENDOSULFAN SULFATE	4.50 UG/KG		U												
ENDOSULFAN-I	2.30 UG/KG		U												
ENDRIN	4.50 UG/KG		U												
ENDRIN ALDEHYDE	4.50 UG/KG		UJ												
ENDRIN KETONE	4.50 UG/KG		U												
GAMMA-BHC (LINDANE)	2.30 UG/KG		U												
GAMMA-CHLORDANE	2.30 UG/KG		U												
HEPTACHLOR	2.30 UG/KG		U												
HEPTACHLOR EPOXIDE	2.30 UG/KG		U												
METHOXYCHLOR	23.00 UG/KG		U												
TOXAPHENE	230.00 UG/KG		U												
RADIONUCLIDES															
URANIUM-238	115.80 PCI/G	24.74	J												
URANIUM, TOTAL	294.00 MG/KG	42	-	4.73 MG/KG	2.42	-	0.76 MG/KG		UJ	2.78 MG/KG	2.25	-	2.75 MG/KG	2.43	-
URANIUM-234	106.50 PCI/G	22.8	J												
THORIUM-230	8.02 PCI/G	1.79	-												
RADIUM-226	4.06 PCI/G	.4	-				0.64 PCI/G	.12	-				0.67 PCI/G	.12	-
URANIUM-235/236	5.76 PCI/G	1.87	J												
THORIUM-232	1.35 PCI/G	.3484	-												
THORIUM, TOTAL	12.30 MG/KG	3.2	-												
RADIUM-228	1.60 PCI/G	.32	-				0.51 PCI/G	.2	-				0.50 PCI/G	.19	UJ
THORIUM-228	1.41 PCI/G	.36	-												
NEPTUNIUM-237	0.31 PCI/G	.0976	N												
PLUTONIUM-239/240	0.20 PCI/G	.027	UJ												
PLUTONIUM-238	0.20 PCI/G	.02	U												
STRONTIUM-90	0.50 PCI/G	.12	UJ												
TECHNETIUM-99	1.00 PCI/G		UJ												

000015

5704

SAMPLE NUMBER:	116427			116419			116423			116421			116425		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		UJ				1.00 PCI/G		UJ				1.00 PCI/G		UJ
CESIUM-137	0.20 PCI/G		UJ				0.20 PCI/G		UJ				0.20 PCI/G		UJ
GROSS ALPHA	214.00 PCI/G	48	J												
GROSS BETA	166.00 PCI/G	34	J												
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	440.00 UG/KG		U												
1,2-DICHLOROBENZENE	440.00 UG/KG		U												
1,3-DICHLOROBENZENE	440.00 UG/KG		U												
1,4-DICHLOROBENZENE	440.00 UG/KG		U												
2,4,5-TRICHLOROPHENOL	1100.00 UG/KG		U												
2,4,6-TRICHLOROPHENOL	440.00 UG/KG		U												
2,4-DICHLOROPHENOL	440.00 UG/KG		U												
2,4-DIMETHYLPHENOL	440.00 UG/KG		U												
2,4-DINITROPHENOL	1100.00 UG/KG		UJ												
2,4-DINITROTOLUENE	440.00 UG/KG		U												
2,6-DINITROTOLUENE	440.00 UG/KG		U												
2-BENZYL-4-CHLOROPHENOL	440.00 UG/KG		U												
2-CHLORONAPHTHALENE	440.00 UG/KG		U												
2-CHLOROPHENOL	440.00 UG/KG		U												
2-METHYLNAPHTHALENE	440.00 UG/KG		U												
2-METHYLPHENOL	440.00 UG/KG		U												
2-NITROANILINE	1100.00 UG/KG		U												
2-NITROPHENOL	440.00 UG/KG		U												
3,3'-DICHLOROBENZIDINE	440.00 UG/KG		U												
3-NITROANILINE	1100.00 UG/KG		U												
4,6-DINITRO-2-METHYLPHENOL	1100.00 UG/KG		U												
4-BROMOPHENYL PHENYL ETHER	440.00 UG/KG		U												
4-CHLORO-3-METHYLPHENOL	440.00 UG/KG		U												
4-CHLOROPHENYLPHENYL ETHER	440.00 UG/KG		U												
4-METHYLPHENOL	440.00 UG/KG		U												
4-NITROANILINE	1100.00 UG/KG		U												
4-NITROPHENOL	1100.00 UG/KG		U												
ACENAPHTHENE	440.00 UG/KG		U												
ACENAPHTHYLENE	440.00 UG/KG		U												
ANTHRACENE	440.00 UG/KG		U												
BENZO(A)ANTHRACENE	440.00 UG/KG		U												
BENZO(A)PYRENE	440.00 UG/KG		U												
BENZO(B)FLUORANTHENE	440.00 UG/KG		U												
BENZO(G,H,I)PERYLENE	440.00 UG/KG		U												
BENZO(K)FLUORANTHENE	440.00 UG/KG		U												
BENZOIC ACID	2100.00 UG/KG		UJ												
BENZYL ALCOHOL	440.00 UG/KG		UR												
BIS(2-CHLOROETHOXY)METHANE	440.00 UG/KG		U												

0009

SAMPLE NUMBER:	116427			116419			116423			116421			116425		
LAB:	IT/RSL														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROETHYL)ETHER	440.00 UG/KG		U												
BIS(2-CHLOROISOPROPYL) ETHER	440.00 UG/KG		U												
BIS(2-ETHYLHEXYL)PHTHALATE	52.00 UG/KG		J												
BUTYL BENZYL PHTHALATE	440.00 UG/KG		U												
CARBAZOLE	440.00 UG/KG		U												
CHRYSENE	440.00 UG/KG		U												
DI-N-BUTYL PHTHALATE	440.00 UG/KG		U												
DI-N-OCTYL PHTHALATE	440.00 UG/KG		U												
DIBENZO(A,H)ANTHRACENE	440.00 UG/KG		U												
DIBENZOFURAN	440.00 UG/KG		U												
DIETHYL PHTHALATE	440.00 UG/KG		U												
DIMETHYL PHTHALATE	440.00 UG/KG		U												
FLUORANTHENE	440.00 UG/KG		U												
FLUORENE	440.00 UG/KG		U												
HEXACHLOROBENZENE	440.00 UG/KG		U												
HEXACHLOROBUTADIENE	440.00 UG/KG		U												
HEXACHLOROCYCLOPENTADIENE	440.00 UG/KG		U												
HEXACHLOROETHANE	440.00 UG/KG		U												
INDENO(1,2,3-CD)PYRENE	440.00 UG/KG		U												
ISOPHORONE	440.00 UG/KG		U												
N-NITROSO-DI-N-PROPYLAMINE	440.00 UG/KG		U												
N-NITROSODIMETHYLAMINE	440.00 UG/KG		U												
N-NITROSODIPHENYLAMINE	440.00 UG/KG		U												
NAPHTHALENE	440.00 UG/KG		U												
NITROBENZENE	440.00 UG/KG		U												
P-CHLOROANILINE	440.00 UG/KG		U												
PENTACHLOROPHENOL	1100.00 UG/KG		U												
PHENANTHRENE	440.00 UG/KG		U												
PHENOL	440.00 UG/KG		U												
PYRENE	440.00 UG/KG		U												
TRIBUTYL PHOSPHATE	440.00 UG/KG		U												
VOLATILES															
1,1,1-TRICHLOROETHANE	14.00 UG/KG		U												
1,1,2,2-TETRACHLOROETHANE	14.00 UG/KG		U												
1,1,2-TRICHLOROETHANE	14.00 UG/KG		U												
1,1-DICHLOROETHANE	14.00 UG/KG		U												
1,1-DICHLOROETHENE	14.00 UG/KG		U												
1,2-DICHLOROETHANE	14.00 UG/KG		U												
1,2-DICHLOROETHENE (TOTAL)	14.00 UG/KG		U												
1,2-DICHLOROPROPANE	14.00 UG/KG		U												
2-BUTANONE	14.00 UG/KG		U												
2-HEXANONE	14.00 UG/KG		U												
4-METHYL-2-PENTANONE	14.00 UG/KG		U												

000017

5704

SAMPLE NUMBER:	116427			116419			116423			116421			116425		
LAB:	IT/RSL														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
ACETONE	6.00 UG/KG		J												
BENZENE	14.00 UG/KG		U												
BROMODICHLOROMETHANE	14.00 UG/KG		U												
BROMOFORM	14.00 UG/KG		U												
BROMOMETHANE	14.00 UG/KG		U												
CARBON DISULFIDE	14.00 UG/KG		U												
CARBON TETRACHLORIDE	14.00 UG/KG		U												
CHLOROBENZENE	14.00 UG/KG		U												
CHLOROETHANE	14.00 UG/KG		U												
CHLOROFORM	14.00 UG/KG		U												
CHLOROMETHANE	14.00 UG/KG		UJ												
CIS-1,3-DICHLOROPROPENE	14.00 UG/KG		U												
DIBROMOCHLOROMETHANE	14.00 UG/KG		U												
ETHYLBENZENE	14.00 UG/KG		U												
METHYLENE CHLORIDE	14.00 UG/KG		U												
STYRENE	14.00 UG/KG		U												
TETRACHLOROETHENE	14.00 UG/KG		U												
TOLUENE	14.00 UG/KG		U												
TRANS-1,3-DICHLOROPROPENE	14.00 UG/KG		U												
TRICHLOROETHENE	14.00 UG/KG		U												
VINYL ACETATE	14.00 UG/KG		U												
VINYL CHLORIDE	14.00 UG/KG		U												
XYLENES, TOTAL	14.00 UG/KG		U												

000018

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116340	116341	116331	116332	116335
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	11054	11054	11055	11055	11056
DEPTH:	16-17	23-24	16-18	23.5-25	17-18
DATE COLLECTED:	21-MAY-93	21-MAY-93	19-MAY-93	19-MAY-93	20-MAY-93
NORTH COORDINATE:	477832.87	477832.87	477810.59	477810.59	477814.54
EAST COORDINATE:	1379123.03	1379123.03	1379125.56	1379125.56	1379102.38
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	RE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDD	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
4,4'-DDE	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
4,4'-DDT	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
ALDRIN	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
ALPHA-BHC	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
ALPHA-CHLORDANE	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
AROCLOR-1016	34.00 UG/KG		U	36.00 UG/KG		U	46.00 UG/KG		U	35.00 UG/KG		U	57.00 UG/KG		U
AROCLOR-1221	70.00 UG/KG		U	74.00 UG/KG		U	94.00 UG/KG		U	71.00 UG/KG		U	120.00 UG/KG		U
AROCLOR-1232	34.00 UG/KG		U	36.00 UG/KG		U	46.00 UG/KG		U	35.00 UG/KG		U	57.00 UG/KG		U
AROCLOR-1242	34.00 UG/KG		U	36.00 UG/KG		U	46.00 UG/KG		U	35.00 UG/KG		U	57.00 UG/KG		U
AROCLOR-1248	34.00 UG/KG		U	36.00 UG/KG		U	46.00 UG/KG		U	35.00 UG/KG		U	57.00 UG/KG		U
AROCLOR-1254	34.00 UG/KG		U	36.00 UG/KG		U	46.00 UG/KG		U	35.00 UG/KG		U	57.00 UG/KG		U
AROCLOR-1260	34.00 UG/KG		U	36.00 UG/KG		U	46.00 UG/KG		U	35.00 UG/KG		U	57.00 UG/KG		U
BETA-BHC	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
DELTA-BHC	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
DIELDRIN	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
ENDOSULFAN II	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
ENDOSULFAN SULFATE	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
ENDOSULFAN-I	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
ENDRIN	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
ENDRIN ALDEHYDE	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
ENDRIN KETONE	3.40 UG/KG		U	3.60 UG/KG		U	4.60 UG/KG		U	3.50 UG/KG		U	5.70 UG/KG		U
GAMMA-BHC (LINDANE)	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
GAMMA-CHLORDANE	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
HEPTACHLOR	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
HEPTACHLOR EPOXIDE	1.80 UG/KG		U	1.90 UG/KG		U	2.40 UG/KG		U	1.80 UG/KG		U	3.00 UG/KG		U
METHOXYCHLOR	18.00 UG/KG		U	19.00 UG/KG		U	24.00 UG/KG		U	18.00 UG/KG		U	30.00 UG/KG		U
TOXAPHENE	180.00 UG/KG		U	190.00 UG/KG		U	240.00 UG/KG		U	180.00 UG/KG		U	300.00 UG/KG		U

000019

5704

SEMIVOLATILES

1,2,4-TRICHLOROBENZENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

DRAFT
Page 18

SAMPLE NUMBER:	116340	116341	116331	116332	116335
LAB:	IT	IT	IT	IT	ITAS
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2-DICHLOROBENZENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
1,3-DICHLOROBENZENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
1,4-DICHLOROBENZENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2,4,5-TRICHLOROPHENOL	840.00 UG/KG		U	900.00 UG/KG		U	1100.00 UG/KG		U	830.00 UG/KG		U	1400.00 UG/KG		U
2,4,6-TRICHLOROPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2,4-DICHLOROPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2,4-DIMETHYLPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2,4-DINITROPHENOL	840.00 UG/KG		UJ	900.00 UG/KG		UJ	1100.00 UG/KG		UJ	830.00 UG/KG		UJ	1400.00 UG/KG		UJ
2,4-DINITROTOLUENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2,6-DINITROTOLUENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2-CHLORONAPHTHALENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2-CHLOROPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2-METHYLNAPHTHALENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2-METHYLPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
2-NITROANILINE	840.00 UG/KG		U	900.00 UG/KG		U	1100.00 UG/KG		U	830.00 UG/KG		U	1400.00 UG/KG		U
2-NITROPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
3,3'-DICHLOROBENZIDINE	350.00 UG/KG		UJ	370.00 UG/KG		UJ	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		UJ
3-NITROANILINE	840.00 UG/KG		UR	900.00 UG/KG		UR	1100.00 UG/KG		U	830.00 UG/KG		U	1400.00 UG/KG		UR
4,6-DINITRO-2-METHYLPHENOL	840.00 UG/KG		U	900.00 UG/KG		U	1100.00 UG/KG		U	830.00 UG/KG		U	1400.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
4-METHYLPHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
4-NITROANILINE	840.00 UG/KG		UJ	900.00 UG/KG		UJ	1100.00 UG/KG		U	830.00 UG/KG		U	1400.00 UG/KG		UJ
4-NITROPHENOL	840.00 UG/KG		U	900.00 UG/KG		U	1100.00 UG/KG		U	830.00 UG/KG		U	1400.00 UG/KG		U
ACENAPHTHENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
ACENAPHTHYLENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
ANTHRACENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BENZO(A)ANTHRACENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BENZO(A)PYRENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BENZO(B)FLUORANTHENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BENZO(G,H,I)PERYLENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BENZO(K)FLUORANTHENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BIS(2-CHLOROISOPROPYL) ETHE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE	54.00 UG/KG		J	46.00 UG/KG		J	48.00 UG/KG		J	36.00 UG/KG		J	570.00 UG/KG		U
BUTYL BENZYL PHTHALATE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
CARBAZOLE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
CHRYSENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
DI-N-BUTYL PHTHALATE	350.00 UG/KG		U	370.00 UG/KG		U	59.00 UG/KG		J	340.00 UG/KG		U	570.00 UG/KG		U

000020

SAMPLE NUMBER:	116340			116341			116331			116332			116335		
LAB:	IT			IT			IT			IT			ITAS		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DI-N-OCTYL PHTHALATE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
DIBENZOFURAN	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
DIETHYL PHTHALATE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
DIMETHYL PHTHALATE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
FLUORANTHENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
FLUORENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
HEXACHLOROBENZENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
HEXACHLOROBUTADIENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		UJ	340.00 UG/KG		UJ	570.00 UG/KG		U
HEXACHLOROETHANE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
ISOPHORONE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
N-NITROSODIPHENYLAMINE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
NAPHTHALENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
NITROBENZENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
P-CHLOROANILINE	350.00 UG/KG		UJ	370.00 UG/KG		UJ	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		UJ
PENTACHLOROPHENOL	840.00 UG/KG		U	900.00 UG/KG		U	1100.00 UG/KG		U	830.00 UG/KG		U	1400.00 UG/KG		U
PHENANTHRENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
PHENOL	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
PYRENE	350.00 UG/KG		U	370.00 UG/KG		U	460.00 UG/KG		U	340.00 UG/KG		U	570.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE	10.00 UG/KG		U	11.00 UG/KG		U	8.00 UG/KG		J	10.00 UG/KG		U	12.00 UG/KG		J
1,1,2,2-TETRACHLOROETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UR
1,1,2-TRICHLOROETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
1,1-DICHLOROETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
1,1-DICHLOROETHENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
1,2-DICHLOROETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
1,2-DICHLOROPROPANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
2-BUTANONE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
2-HEXANONE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
4-METHYL-2-PENTANONE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
ACETONE	10.00 UG/KG		U	11.00 UG/KG		U	23.00 UG/KG		J	11.00 UG/KG		-	17.00 UG/KG		U
BENZENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
BROMODICHLOROMETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
BROMOFORM	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
BROMOMETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		UJ	17.00 UG/KG		U
CARBON DISULFIDE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
CARBON TETRACHLORIDE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
CHLOROBENZENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UR
CHLOROETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U

000021

5204

SAMPLE NUMBER:	116340			116341			116331			116332			116335		
LAB:	IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			RE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROFORM	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
CHLOROMETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
DIBROMOCHLOROMETHANE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
ETHYLBENZENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UR
METHYLENE CHLORIDE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		U	17.00 UG/KG		U	30.00 UG/KG		U
STYRENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UR
TETRACHLOROETHENE	10.00 UG/KG		U	11.00 UG/KG		U	1.00 UG/KG		J	10.00 UG/KG		U	17.00 UG/KG		UR
TOLUENE	2.00 UG/KG		J	1.00 UG/KG		J	3500.00 UG/KG		R	37.00 UG/KG		-	23.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
TRICHLOROETHENE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
VINYL ACETATE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UJ
VINYL CHLORIDE	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		U
XYLENES, TOTAL	10.00 UG/KG		U	11.00 UG/KG		U	14.00 UG/KG		UJ	10.00 UG/KG		U	17.00 UG/KG		UR

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116336	116337	116338	067095	067096
TASK:	20.03.05	20.03.05	20.03.05	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	11056	11057	11057	1708	1708
DEPTH:	23-24	17-18	23-24	6-7.5	7.5-9
DATE COLLECTED:	20-MAY-93	20-MAY-93	20-MAY-93	14-JUN-91	14-JUN-91
NORTH COORDINATE:	477814.54	477835.17	477835.17	477710.64	477710.64
EAST COORDINATE:	1379102.38	1379107.43	1379107.43	1379166.88	1379166.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM													6350.00 MG/KG		-
ANTIMONY													7.70 MG/KG		UJ
ARSENIC													7.10 MG/KG		J
BARIUM													315.00 MG/KG		-
BERYLLIUM													1.80 MG/KG		-
CADMIUM													0.86 MG/KG		-
CALCIUM													22700.00 MG/KG		J
CHROMIUM													15.90 MG/KG		-
COBALT													7.00 MG/KG		-
COPPER													27.90 MG/KG		-
CYANIDE													0.59 MG/KG		J
IRON													5510.00 MG/KG		-
LEAD													11.00 MG/KG		J
MAGNESIUM													5370.00 MG/KG		-
MANGANESE													282.00 MG/KG		J
MERCURY													0.13 MG/KG		UR
MOLYBDENUM													8.90 MG/KG		-
NICKEL													16.00 MG/KG		-
POTASSIUM													961.00 MG/KG		-
SELENIUM													2.80 MG/KG		-
SILVER													5.90 MG/KG		-
SODIUM													225.00 MG/KG		-
THALLIUM													0.51 MG/KG		U
VANADIUM													28.70 MG/KG		-
ZINC													15.10 MG/KG		-
PESTICIDES															
4,4'-DDD	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR
4,4'-DDE	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR

000023

0704

SAMPLE NUMBER:	116336			116337			116338			067095			067096		
LAB:	IT-KNOX			IT-KNOX			IT-KNOX						IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			DL-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR
ALDRIN	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
ALPHA-BHC	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
ALPHA-CHLORDANE	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				420.00 UG/KG		UR
AROCLOR-1016	39.00 UG/KG		U	35.00 UG/KG		U	35.00 UG/KG		U				420.00 UG/KG		UR
AROCLOR-1221	80.00 UG/KG		U	71.00 UG/KG		U	71.00 UG/KG		U				420.00 UG/KG		UR
AROCLOR-1232	39.00 UG/KG		U	35.00 UG/KG		U	35.00 UG/KG		U				420.00 UG/KG		UR
AROCLOR-1242	39.00 UG/KG		U	35.00 UG/KG		U	35.00 UG/KG		U				420.00 UG/KG		UR
AROCLOR-1248	39.00 UG/KG		U	35.00 UG/KG		U	35.00 UG/KG		U				420.00 UG/KG		UR
AROCLOR-1254	39.00 UG/KG		U	35.00 UG/KG		U	35.00 UG/KG		U				840.00 UG/KG		UR
AROCLOR-1260	39.00 UG/KG		U	35.00 UG/KG		U	35.00 UG/KG		U				840.00 UG/KG		UR
BETA-BHC	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
DELTA-BHC	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
DIELDRIN	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR
ENDOSULFAN II	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR
ENDOSULFAN SULFATE	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR
ENDOSULFAN-I	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
ENDRIN	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR
ENDRIN ALDEHYDE	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U						
ENDRIN KETONE	3.90 UG/KG		U	3.50 UG/KG		U	3.50 UG/KG		U				84.00 UG/KG		UR
GAMMA-BHC (LINDANE)	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
GAMMA-CHLORDANE	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				420.00 UG/KG		UR
HEPTACHLOR	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
HEPTACHLOR EPOXIDE	2.00 UG/KG		U	1.80 UG/KG		U	1.80 UG/KG		U				42.00 UG/KG		UR
METHOXYCHLOR	20.00 UG/KG		U	18.00 UG/KG		U	18.00 UG/KG		U				420.00 UG/KG		UR
TOXAPHENE	200.00 UG/KG		U	180.00 UG/KG		U	180.00 UG/KG		U				840.00 UG/KG		UR
RADIONUCLIDES															
URANIUM-238										3.94 PCI/G	.58	J			
URANIUM, TOTAL										15.60 MG/KG	3.7	J			
URANIUM-234										3.65 PCI/G	.55	J			
THORIUM-230										2.98 PCI/G	.62	J			
RADIUM-226										3.07 PCI/G	.29	J			
URANIUM-235/236										0.60 PCI/G		UJ			
THORIUM-232										2.42 PCI/G	.54	J			
THORIUM, TOTAL										21.80 MG/KG	4.8	J			
RADIUM-228										3.13 PCI/G	.37	J			
THORIUM-228										3.14 PCI/G	.65	J			
NEPTUNIUM-237										0.60 PCI/G		UJ			
PLUTONIUM-239/240										0.60 PCI/G		R			
PLUTONIUM-238										0.60 PCI/G		UJ			
STRONTIUM-90										1.23 PCI/G	.3	J			
TECHNETIUM-99										1.00 PCI/G		U			
RUTHENIUM-106										1.00 PCI/G		UJ			

000024

SAMPLE NUMBER:	116336			116337			116338			067095			067096		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
CESIUM-137										0.20 PCI/G		UJ			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
1,2-DICHLOROBENZENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
1,3-DICHLOROBENZENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
1,4-DICHLOROBENZENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2,4,5-TRICHLOROPHENOL	950.00 UG/KG		U	830.00 UG/KG		U	850.00 UG/KG		U				4100.00 UG/KG		UR
2,4,6-TRICHLOROPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2,4-DICHLOROPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2,4-DIMETHYLPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2,4-DINITROPHENOL	950.00 UG/KG		UJ	830.00 UG/KG		UJ	850.00 UG/KG		UJ				4100.00 UG/KG		UR
2,4-DINITROTOLUENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2,6-DINITROTOLUENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2-CHLORONAPHTHALENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2-CHLOROPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2-METHYLNAPHTHALENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2-METHYLPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
2-NITROANILINE	950.00 UG/KG		U	830.00 UG/KG		U	850.00 UG/KG		U				4100.00 UG/KG		UR
2-NITROPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
3,3'-DICHLOROBENZIDINE	390.00 UG/KG		UJ	340.00 UG/KG		UJ	350.00 UG/KG		UJ				1700.00 UG/KG		UR
3-NITROANILINE	950.00 UG/KG		UR	830.00 UG/KG		UR	850.00 UG/KG		UR				4100.00 UG/KG		UR
4,6-DINITRO-2-METHYLPHENOL	950.00 UG/KG		U	830.00 UG/KG		U	850.00 UG/KG		U				4100.00 UG/KG		UR
4-BROMOPHENYL PHENYL ETHER	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
4-CHLORO-3-METHYLPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
4-CHLOROPHENYLPHENYL ETHER	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
4-METHYLPHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
4-NITROANILINE	950.00 UG/KG		UJ	830.00 UG/KG		UJ	850.00 UG/KG		UJ				4100.00 UG/KG		UR
4-NITROPHENOL	950.00 UG/KG		U	830.00 UG/KG		U	850.00 UG/KG		U				4100.00 UG/KG		UR
ACENAPHTHENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
ACENAPHTHYLENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
ANTHRACENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				860.00 UG/KG		UJ
BENZO(A)ANTHRACENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
BENZO(A)PYRENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				130.00 UG/KG		J
BENZO(B)FLUORANTHENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				93.00 UG/KG		R
BENZO(G,H,I)PERYLENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				860.00 UG/KG		UJ
BENZO(K)FLUORANTHENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
BENZOIC ACID													4200.00 UG/KG		UJ
BENZYL ALCOHOL													840.00 UG/KG		UR
BIS(2-CHLOROETHOXY)METHANE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
BIS(2-CHLOROETHYL)ETHER	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
BIS(2-CHLOROISOPROPYL) ETHE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
BIS(2-ETHYLHEXYL)PHTHALATE	57.00 UG/KG		J	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
BUTYL BENZYL PHTHALATE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR

000025

5704

SAMPLE NUMBER:	116336			116337			116338			067095			067096		
LAB:	IT			IT			IT						IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
CARBAZOLE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U						
CHRYSENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				150.00 UG/KG		J
DI-N-BUTYL PHTHALATE	43.00 UG/KG		J	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
DI-N-OCTYL PHTHALATE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				860.00 UG/KG		UJ
DIBENZO(A,H)ANTHRACENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
DIBENZOFURAN	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				860.00 UG/KG		UJ
DIETHYL PHTHALATE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
DIMETHYL PHTHALATE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
FLUORANTHENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
FLUORENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
HEXACHLOROBENZENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
HEXACHLOROBUTADIENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
HEXACHLOROCYCLOPENTADIENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
HEXACHLOROETHANE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
INDENO(1,2,3-CD)PYRENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
ISOPHORONE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
N-NITROSO-DI-N-PROPYLAMINE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
N-NITROSODIPHENYLAMINE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
NAPHTHALENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
NITROBENZENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
P-CHLOROANILINE	390.00 UG/KG		UJ	340.00 UG/KG		UJ	350.00 UG/KG		UJ				840.00 UG/KG		UR
PENTACHLOROPHENOL	950.00 UG/KG		U	830.00 UG/KG		U	850.00 UG/KG		U				4100.00 UG/KG		UR
PHENANTHRENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
PHENOL	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
PYRENE	390.00 UG/KG		U	340.00 UG/KG		U	350.00 UG/KG		U				840.00 UG/KG		UR
VOLATILES															
1,1,1-TRICHLOROETHANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
1,1,2,2-TETRACHLOROETHANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UR
1,1,2-TRICHLOROETHANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
1,1-DICHLOROETHANE	12.00 UG/KG		U	10.00 UG/KG		UJ	11.00 UG/KG		U				6.00 UG/KG		UJ
1,1-DICHLOROETHENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
1,2-DICHLOROETHANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
1,2-DICHLOROETHENE (TOTAL)	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
1,2-DICHLOROPROPANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
2-BUTANONE	12.00 UG/KG		U	10.00 UG/KG		UJ	11.00 UG/KG		U				13.00 UG/KG		UJ
2-HEXANONE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				13.00 UG/KG		UR
4-METHYL-2-PENTANONE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				13.00 UG/KG		UR
ACETONE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				13.00 UG/KG		UJ
BENZENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
BROMODICHLOROMETHANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
BROMOFORM	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
BROMOMETHANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				13.00 UG/KG		UJ
CARBON DISULFIDE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ

SAMPLE NUMBER:	116336			116337			116338			067095			067096		
LAB:	IT			IT			IT						IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CARBON TETRACHLORIDE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
CHLOROBENZENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UR
CHLOROETHANE	12.00 UG/KG		U	10.00 UG/KG		UJ	11.00 UG/KG		U				13.00 UG/KG		UJ
CHLOROFORM	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
CHLOROMETHANE	12.00 UG/KG		U	10.00 UG/KG		UJ	11.00 UG/KG		U				13.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
DIBROMOCHLOROMETHANE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
ETHYLBENZENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UR
METHYLENE CHLORIDE	12.00 UG/KG		U	10.00 UG/KG		U	21.00 UG/KG		U				15.00 UG/KG		UJ
STYRENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UR
TETRACHLOROETHENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
TOLUENE	12.00 UG/KG		U	1.00 UG/KG		J	11.00 UG/KG		U				3.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
TRICHLOROETHENE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UJ
VINYL ACETATE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				13.00 UG/KG		UJ
VINYL CHLORIDE	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				13.00 UG/KG		UJ
XYLENES, TOTAL	12.00 UG/KG		U	10.00 UG/KG		U	11.00 UG/KG		U				6.00 UG/KG		UR

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067098	067099	067101	067102	067111
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:			IT	IT	IT
WELL OR BORING NUMBER:	1708	1708	1708	1708	1708
DEPTH:	10.5-12	12-13.5	15-16.5	16.5-18	30-31.5
DATE COLLECTED:	15-JUN-91	16-JUN-91	16-JUN-91	16-JUN-91	16-JUN-91
NORTH COORDINATE:	477710.64	477710.64	477710.64	477710.64	477710.64
EAST COORDINATE:	1379166.88	1379166.88	1379166.88	1379166.88	1379166.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	-	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM										7250.00 MG/KG		-			
ANTIMONY										8.40 MG/KG		UJ			
ARSENIC										7.40 MG/KG		J			
BARIUM										294.00 MG/KG		-			
BERYLLIUM										2.00 MG/KG		-			
CADMIUM										1.30 MG/KG		-			
CALCIUM										36800.00 MG/KG		J			
CHROMIUM										19.60 MG/KG		-			
COBALT										8.00 MG/KG		-			
COPPER										29.50 MG/KG		-			
CYANIDE										1.20 MG/KG		J			
IRON										7490.00 MG/KG		-			
LEAD										67.10 MG/KG		J			
MAGNESIUM										10100.00 MG/KG		-			
MANGANESE										330.00 MG/KG		J			
MERCURY										0.13 MG/KG		UR			
MOLYBDENUM										9.40 MG/KG		-			
NICKEL										18.00 MG/KG		-			
POTASSIUM										1070.00 MG/KG		-			
SELENIUM										2.90 MG/KG		-			
SILVER										8.30 MG/KG		-			
SODIUM										237.00 MG/KG		U			
THALLIUM										0.56 MG/KG		U			
VANADIUM										27.70 MG/KG		-			
ZINC										21.50 MG/KG		-			
PESTICIDES															
4,4'-DDD										23.00 UG/KG		U			
4,4'-DDE										23.00 UG/KG		U			

000028

SAMPLE NUMBER:	067098			067099			067101			067102			067111		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT										23.00 UG/KG		U			
ALDRIN										11.00 UG/KG		U			
ALPHA-BHC										11.00 UG/KG		U			
ALPHA-CHLORDANE										110.00 UG/KG		U			
AROCLOR-1016										110.00 UG/KG		U			
AROCLOR-1221										110.00 UG/KG		U			
AROCLOR-1232										110.00 UG/KG		U			
AROCLOR-1242										110.00 UG/KG		U			
AROCLOR-1248										110.00 UG/KG		U			
AROCLOR-1254										230.00 UG/KG		U			
AROCLOR-1260										230.00 UG/KG		U			
BETA-BHC										11.00 UG/KG		U			
DELTA-BHC										11.00 UG/KG		U			
DIELDRIN										23.00 UG/KG		U			
ENDOSULFAN II										23.00 UG/KG		U			
ENDOSULFAN SULFATE										23.00 UG/KG		U			
ENDOSULFAN-I										11.00 UG/KG		U			
ENDRIN										23.00 UG/KG		U			
ENDRIN KETONE										23.00 UG/KG		U			
GAMMA-BHC (LINDANE)										11.00 UG/KG		U			
GAMMA-CHLORDANE										110.00 UG/KG		U			
HEPTACHLOR										11.00 UG/KG		U			
HEPTACHLOR EPOXIDE										11.00 UG/KG		U			
METHOXYCHLOR										110.00 UG/KG		U			
TOXAPHENE										230.00 UG/KG		U			
RADIONUCLIDES															
URANIUM-238							2.97 PCI/G	.43	J				21.94 PCI/G	2.87	J
URANIUM, TOTAL							11.10 MG/KG	3.4	J				68.20 MG/KG	10.2	J
URANIUM-234							2.88 PCI/G	.42	J				20.64 PCI/G	2.72	J
THORIUM-230							2.73 PCI/G	.52	J				2.93 PCI/G	.5	J
RADIUM-226							2.66 PCI/G	.27	J				1.72 PCI/G	.19	J
URANIUM-235/236							0.60 PCI/G		UJ				0.69 PCI/G	.267	J
THORIUM-232							1.81 PCI/G	.38	J				1.17 PCI/G	.26	J
THORIUM, TOTAL							16.30 MG/KG	3.5	J				10.60 MG/KG	2.3	J
RADIUM-228							2.46 PCI/G	.33	J				1.09 PCI/G	.2	J
THORIUM-228							2.70 PCI/G	.52	J				1.59 PCI/G	.32	J
NEPTUNIUM-237							0.60 PCI/G		UJ				0.60 PCI/G		UJ
PLUTONIUM-239/240							0.60 PCI/G		R				0.60 PCI/G		R
PLUTONIUM-238							0.60 PCI/G		UJ				0.60 PCI/G		UJ
STRONTIUM-90							1.25 PCI/G	.29	J				0.70 PCI/G		UJ
TECHNETIUM-99							1.00 PCI/G		U				1.00 PCI/G		U
RUTHENIUM-106							1.00 PCI/G		UJ				1.00 PCI/G		UJ
CESIUM-137							0.20 PCI/G		UJ				0.20 PCI/G		UJ

000029

#10

SAMPLE NUMBER:	067098			067099			067101			067102			067111		
LAB:							IT						IT		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE										930.00 UG/KG		U			
1,2-DICHLOROBENZENE										930.00 UG/KG		U			
1,3-DICHLOROBENZENE										930.00 UG/KG		U			
1,4-DICHLOROBENZENE										930.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL										4500.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL										930.00 UG/KG		U			
2,4-DICHLOROPHENOL										930.00 UG/KG		U			
2,4-DIMETHYLPHENOL										930.00 UG/KG		U			
2,4-DINITROPHENOL										4500.00 UG/KG		U			
2,4-DINITROTOLUENE										930.00 UG/KG		U			
2,6-DINITROTOLUENE										930.00 UG/KG		U			
2-CHLORONAPHTHALENE										930.00 UG/KG		U			
2-CHLOROPHENOL										930.00 UG/KG		U			
2-METHYLNAPHTHALENE										930.00 UG/KG		U			
2-METHYLPHENOL										930.00 UG/KG		U			
2-NITROANILINE										4500.00 UG/KG		U			
2-NITROPHENOL										930.00 UG/KG		U			
3,3'-DICHLOROBENZIDINE										1900.00 UG/KG		U			
3-NITROANILINE										4500.00 UG/KG		UJ			
4,6-DINITRO-2-METHYLPHENOL										4500.00 UG/KG		U			
4-BROMOPHENYL PHENYL ETHER										930.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL										930.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER										930.00 UG/KG		U			
4-METHYLPHENOL										930.00 UG/KG		U			
4-NITROANILINE										4500.00 UG/KG		U			
4-NITROPHENOL										4500.00 UG/KG		U			
ACENAPHTHENE										930.00 UG/KG		U			
ACENAPHTHYLENE										930.00 UG/KG		U			
ANTHRACENE										930.00 UG/KG		U			
BENZO(A)ANTHRACENE										930.00 UG/KG		U			
BENZO(A)PYRENE										930.00 UG/KG		U			
BENZO(B)FLUORANTHENE										930.00 UG/KG		U			
BENZO(G,H,I)PERYLENE										930.00 UG/KG		U			
BENZO(K)FLUORANTHENE										930.00 UG/KG		U			
BENZOIC ACID										97.00 UG/KG		J			
BENZYL ALCOHOL										930.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE										930.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER										930.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER										930.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE										930.00 UG/KG		UJ			
BUTYL BENZYL PHTHALATE										930.00 UG/KG		UJ			
CHRYSENE										930.00 UG/KG		U			
DI-N-BUTYL PHTHALATE										930.00 UG/KG		U			
DI-N-OCTYL PHTHALATE										930.00 UG/KG		U			
DIBENZO(A,H)ANTHRACENE										930.00 UG/KG		U			

000030

SAMPLE NUMBER:	067098			067099			067101			067102			067111		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIBENZOFURAN										930.00 UG/KG		U			
DIETHYL PHTHALATE										930.00 UG/KG		U			
DIMETHYL PHTHALATE										930.00 UG/KG		U			
FLUORANTHENE										930.00 UG/KG		U			
FLUORENE										930.00 UG/KG		U			
HEXACHLOROBENZENE										930.00 UG/KG		U			
HEXACHLOROBUTADIENE										930.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE										930.00 UG/KG		U			
HEXACHLOROETHANE										930.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE										930.00 UG/KG		U			
ISOPHORONE										930.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE										930.00 UG/KG		U			
N-NITROSODIPHENYLAMINE										930.00 UG/KG		U			
NAPHTHALENE										930.00 UG/KG		U			
NITROBENZENE										930.00 UG/KG		U			
P-CHLOROANILINE										930.00 UG/KG		U			
PENTACHLOROPHENOL										4500.00 UG/KG		U			
PHENANTHRENE										930.00 UG/KG		U			
PHENOL										930.00 UG/KG		U			
PYRENE										930.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE										4.00 UG/KG		J			
1,1,2,2-TETRACHLOROETHANE										6.00 UG/KG		UR			
1,1,2-TRICHLOROETHANE										6.00 UG/KG		UJ			
1,1-DICHLOROETHANE										6.00 UG/KG		UJ			
1,1-DICHLOROETHENE										6.00 UG/KG		UJ			
1,2-DICHLOROETHANE										6.00 UG/KG		UJ			
1,2-DICHLOROETHENE (TOTAL)										6.00 UG/KG		UJ			
1,2-DICHLOROPROPANE										6.00 UG/KG		UJ			
2-BUTANONE										13.00 UG/KG		UJ			
2-HEXANONE										13.00 UG/KG		UR			
4-METHYL-2-PENTANONE										13.00 UG/KG		UR			
ACETONE										13.00 UG/KG		UJ			
BENZENE										6.00 UG/KG		UJ			
BROMODICHLOROMETHANE										6.00 UG/KG		UJ			
BROMOFORM										6.00 UG/KG		UJ			
BROMOMETHANE										13.00 UG/KG		UJ			
CARBON DISULFIDE										6.00 UG/KG		UJ			
CARBON TETRACHLORIDE										6.00 UG/KG		UJ			
CHLOROBENZENE										6.00 UG/KG		UR			
CHLOROETHANE										13.00 UG/KG		UJ			
CHLOROFORM										6.00 UG/KG		UJ			
CHLOROMETHANE										13.00 UG/KG		UJ			

000031

5704

SAMPLE NUMBER:	067098			067099			067101			067102			067111		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CIS-1,3-DICHLOROPROPENE										6.00 UG/KG		UJ			
DIBROMOCHLOROMETHANE										6.00 UG/KG		UJ			
ETHYLBENZENE										6.00 UG/KG		UR			
METHYLENE CHLORIDE										6.00 UG/KG		U			
STYRENE										6.00 UG/KG		UR			
TETRACHLOROETHENE										6.00 UG/KG		UR			
TOLUENE										6.00 UG/KG		UR			
TRANS-1,3-DICHLOROPROPENE										6.00 UG/KG		UJ			
TRICHLOROETHENE										6.00 UG/KG		UJ			
VINYL ACETATE										13.00 UG/KG		UJ			
VINYL CHLORIDE										13.00 UG/KG		UJ			
XYLENES, TOTAL										6.00 UG/KG		UR			

000032

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067112	067097	067119	067064	067071
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT			IT	IT
WELL OR BORING NUMBER:	1708	1708	1708	1709	1709
DEPTH:	31.5-33	9-10.5	9-12	7.5-9	13.5-15
DATE COLLECTED:	16-JUN-91	15-JUN-91	17-JUN-91	06-JUN-91	06-JUN-91
NORTH COORDINATE:	477710.64	477710.64	477710.64	477814.23	477814.23
EAST COORDINATE:	1379166.88	1379166.88	1379166.88	1378969.43	1378969.43
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	-	NONE-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	9550.00 MG/KG		-							4240.00 MG/KG		-	4400.00 MG/KG		-
ANTIMONY	7.40 MG/KG		UJ							7.80 MG/KG		UR	7.40 MG/KG		UR
ARSENIC	1.70 MG/KG		J							16.30 MG/KG		-	74.80 MG/KG		-
BARIUM	112.00 MG/KG		-							286.00 MG/KG		-	252.00 MG/KG		-
BERYLLIUM	0.60 MG/KG		-							3.90 MG/KG		-	4.30 MG/KG		-
CADMIUM	0.50 MG/KG		U							0.52 MG/KG		U	0.49 MG/KG		U
CALCIUM	2930.00 MG/KG		J							2790.00 MG/KG		-	2800.00 MG/KG		-
CHROMIUM	13.60 MG/KG		-							5.60 MG/KG		J	5.10 MG/KG		J
COBALT	9.90 MG/KG		-							5.50 MG/KG		-	6.30 MG/KG		-
COPPER	14.60 MG/KG		-							28.50 MG/KG		-	28.80 MG/KG		-
CYANIDE	0.12 MG/KG		UR							0.27 MG/KG		-	0.23 MG/KG		-
IRON	16300.00 MG/KG		-							4610.00 MG/KG		-	5230.00 MG/KG		-
LEAD	11.30 MG/KG		J							6.70 MG/KG		J	9.00 MG/KG		J
MAGNESIUM	2060.00 MG/KG		-							383.00 MG/KG		-	439.00 MG/KG		-
MANGANESE	736.00 MG/KG		J							24.00 MG/KG		J	22.70 MG/KG		J
MERCURY	0.12 MG/KG		UR							0.13 MG/KG		UJ	0.12 MG/KG		UJ
MOLYBDENUM	9.20 MG/KG		-							3.50 MG/KG		-	4.90 MG/KG		-
NICKEL	16.00 MG/KG		-							10.80 MG/KG		-	12.00 MG/KG		-
POTASSIUM	1430.00 MG/KG		-							523.00 MG/KG		-	616.00 MG/KG		-
SELENIUM	0.50 MG/KG		UJ							0.74 MG/KG		-	4.10 MG/KG		-
SILVER	2.50 MG/KG		UJ							2.60 MG/KG		UJ	2.50 MG/KG		UJ
SODIUM	71.90 MG/KG		U							158.00 MG/KG		-	179.00 MG/KG		-
THALLIUM	0.50 MG/KG		U							0.52 MG/KG		UJ	0.80 MG/KG		J
VANADIUM	17.80 MG/KG		-							34.90 MG/KG		-	30.00 MG/KG		-
ZINC	47.00 MG/KG		-							9.40 MG/KG		-	52.40 MG/KG		-
PESTICIDES															
4,4'-DDD	20.00 UG/KG		U							85.00 UG/KG		UR	20.00 UG/KG		U
4,4'-DDE	20.00 UG/KG		U							85.00 UG/KG		UR	20.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067112			067097			067119			067064			067071		
LAB:	IT									IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			DL-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT	20.00 UG/KG		U							85.00 UG/KG		UR	20.00 UG/KG		U
ALDRIN	10.00 UG/KG		U							43.00 UG/KG		UR	10.00 UG/KG		U
ALPHA-BHC	10.00 UG/KG		U							43.00 UG/KG		UR	10.00 UG/KG		U
ALPHA-CHLORDANE	100.00 UG/KG		U							110.00 UG/KG		U	100.00 UG/KG		U
AROCLOR-1016	100.00 UG/KG		U							430.00 UG/KG		UR	100.00 UG/KG		U
AROCLOR-1221	100.00 UG/KG		U							430.00 UG/KG		UR	100.00 UG/KG		U
AROCLOR-1232	100.00 UG/KG		U							430.00 UG/KG		UR	100.00 UG/KG		U
AROCLOR-1242	100.00 UG/KG		U							430.00 UG/KG		UR	100.00 UG/KG		U
AROCLOR-1248	100.00 UG/KG		U							110.00 UG/KG		U	100.00 UG/KG		U
AROCLOR-1254	200.00 UG/KG		U							850.00 UG/KG		UR	200.00 UG/KG		U
AROCLOR-1260	200.00 UG/KG		U							210.00 UG/KG		U	200.00 UG/KG		U
BETA-BHC	10.00 UG/KG		U							43.00 UG/KG		UR	10.00 UG/KG		U
DELTA-BHC	10.00 UG/KG		U							11.00 UG/KG		U	10.00 UG/KG		U
DIELDRIN	20.00 UG/KG		U							85.00 UG/KG		UR	20.00 UG/KG		U
ENDOSULFAN II	20.00 UG/KG		U							21.00 UG/KG		U	20.00 UG/KG		U
ENDOSULFAN SULFATE	20.00 UG/KG		U							85.00 UG/KG		UR	20.00 UG/KG		U
ENDOSULFAN-I	10.00 UG/KG		U							11.00 UG/KG		U	10.00 UG/KG		U
ENDRIN	20.00 UG/KG		U							85.00 UG/KG		UR	20.00 UG/KG		U
ENDRIN KETONE	20.00 UG/KG		U							21.00 UG/KG		U	20.00 UG/KG		U
GAMMA-BHC (LINDANE)	10.00 UG/KG		U							43.00 UG/KG		UR	10.00 UG/KG		U
GAMMA-CHLORDANE	100.00 UG/KG		U							110.00 UG/KG		U	100.00 UG/KG		U
HEPTACHLOR	10.00 UG/KG		U							43.00 UG/KG		UR	10.00 UG/KG		U
HEPTACHLOR EPOXIDE	10.00 UG/KG		U							11.00 UG/KG		U	10.00 UG/KG		U
METHOXYCHLOR	100.00 UG/KG		U							110.00 UG/KG		U	100.00 UG/KG		U
TOXAPHENE	200.00 UG/KG		U							210.00 UG/KG		U	200.00 UG/KG		U
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
1,2-DICHLOROBENZENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
1,3-DICHLOROBENZENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
1,4-DICHLOROBENZENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2,4,5-TRICHLOROPHENOL	4000.00 UG/KG		U							2100.00 UG/KG		U	2000.00 UG/KG		U
2,4,6-TRICHLOROPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2,4-DICHLOROPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2,4-DIMETHYLPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2,4-DINITROPHENOL	4000.00 UG/KG		UJ							2100.00 UG/KG		UJ	2000.00 UG/KG		UJ
2,4-DINITROTOLUENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2,6-DINITROTOLUENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2-CHLORONAPHTHALENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2-CHLOROPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2-METHYLNAPHTHALENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2-METHYLPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
2-NITROANILINE	4000.00 UG/KG		U							2100.00 UG/KG		U	2000.00 UG/KG		U
2-NITROPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U

SAMPLE NUMBER:	067112			067097			067119			067064			067071		
LAB:	IT									IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
3,3'-DICHLOROBENZIDINE	1600.00 UG/KG		UJ							870.00 UG/KG		UJ	830.00 UG/KG		U
3-NITROANILINE	4000.00 UG/KG		UJ							2100.00 UG/KG		U	2000.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL	4000.00 UG/KG		U							2100.00 UG/KG		UJ	2000.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
4-METHYLPHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
4-NITROANILINE	4000.00 UG/KG		UJ							2100.00 UG/KG		UJ	2000.00 UG/KG		U
4-NITROPHENOL	4000.00 UG/KG		U							2100.00 UG/KG		U	2000.00 UG/KG		U
ACENAPHTHENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
ACENAPHTHYLENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
ANTHRACENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BENZO(A)ANTHRACENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BENZO(A)PYRENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BENZO(B)FLUORANTHENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BENZO(G,H,I)PERYLENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BENZO(K)FLUORANTHENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BENZOIC ACID	4000.00 UG/KG		U							2100.00 UG/KG		UJ	2000.00 UG/KG		UJ
BENZYL ALCOHOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BIS(2-CHLOROISOPROPYL) ETHE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
BUTYL BENZYL PHTHALATE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
CHRYSENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
DI-N-BUTYL PHTHALATE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
DI-N-OCTYL PHTHALATE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
DIBENZOFURAN	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
DIETHYL PHTHALATE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
DIMETHYL PHTHALATE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
FLUORANTHENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
FLUORENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
HEXACHLOROBENZENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
HEXACHLOROBUTADIENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
HEXACHLOROETHANE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
ISOPHORONE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
N-NITROSODIPHENYLAMINE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
NAPHTHALENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
NITROBENZENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
P-CHLOROANILINE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
PENTACHLOROPHENOL	4000.00 UG/KG		U							2100.00 UG/KG		U	2000.00 UG/KG		U

000035

87047

SAMPLE NUMBER:	067112			067097			067119			067064			067071		
LAB:	IT									IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PHENANTHRENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
PHENOL	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
PYRENE	820.00 UG/KG		U							440.00 UG/KG		U	410.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE	6.00 UG/KG		U							98.00 UG/KG		R	130.00 UG/KG		R
1,1,2,2-TETRACHLOROETHANE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
1,1,2-TRICHLOROETHANE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
1,1-DICHLOROETHANE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UJ
1,1-DICHLOROETHENE	6.00 UG/KG		U							6.00 UG/KG		UJ	6.00 UG/KG		UR
1,2-DICHLOROETHANE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UJ
1,2-DICHLOROETHENE (TOTAL)	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
1,2-DICHLOROPROPANE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
2-BUTANONE	29.00 UG/KG		U							13.00 UG/KG		UR	13.00 UG/KG		UJ
2-HEXANONE	12.00 UG/KG		U							13.00 UG/KG		UR	13.00 UG/KG		UR
4-METHYL-2-PENTANONE	12.00 UG/KG		U							13.00 UG/KG		UR	13.00 UG/KG		UR
ACETONE	190.00 UG/KG		J							13.00 UG/KG		R	23.00 UG/KG		R
BENZENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
BROMODICHLOROMETHANE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
BROMOFORM	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
BROMOMETHANE	12.00 UG/KG		U							13.00 UG/KG		UR	13.00 UG/KG		UJ
CARBON DISULFIDE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
CARBON TETRACHLORIDE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
CHLOROBENZENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
CHLOROETHANE	12.00 UG/KG		U							13.00 UG/KG		UR	13.00 UG/KG		UR
CHLOROFORM	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UJ
CHLOROMETHANE	12.00 UG/KG		U							13.00 UG/KG		UR	13.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
DIBROMOCHLOROMETHANE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
ETHYLBENZENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
METHYLENE CHLORIDE	6.00 UG/KG		U							8.00 UG/KG		R	6.00 UG/KG		U
STYRENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
TETRACHLOROETHENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
TOLUENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
TRANS-1,3-DICHLOROPROPENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
TRICHLOROETHENE	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR
VINYL ACETATE	12.00 UG/KG		U							13.00 UG/KG		UR	2.00 UG/KG		J
VINYL CHLORIDE	12.00 UG/KG		U							13.00 UG/KG		UR	13.00 UG/KG		UJ
XYLENES, TOTAL	6.00 UG/KG		U							6.00 UG/KG		UR	6.00 UG/KG		UR

000036

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067072	067078	067081	067062	067065
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT		IT	IT	
WELL OR BORING NUMBER:	1709	1709	1709	1709	1709
DEPTH:	15-16.5	24-25.5	28.5-30	4.5-6	9-10.5
DATE COLLECTED:	06-JUN-91	11-JUN-91	11-JUN-91	04-JUN-91	06-JUN-91
NORTH COORDINATE:	477814.23	477814.23	477814.23	477814.23	477814.23
EAST COORDINATE:	1378969.43	1378969.43	1378969.43	1378969.43	1378969.43
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	NONE-NA	NONE-NA	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	5.09 PCI/G	.86	-				3.80 PCI/G	.61	-	11.00 PCI/G	1.5	J			
URANIUM, TOTAL	14.50 MG/KG	4.1	J				14.40 MG/KG	4.3	J	67.00 MG/KG	8.4	-			
URANIUM-234	4.63 PCI/G	.8	-				3.52 PCI/G	.58	-	4.40 PCI/G	.76	-			
THORIUM-230	4.50 PCI/G	.96	J				3.07 PCI/G	.62	-	3.74 PCI/G	.73	J			
RADIUM-226	2.79 PCI/G	.25	-				2.13 PCI/G	.22	-	1.96 PCI/G	.2	-			
LEAD-210	1.25 PCI/G	.58	-				1.17 PCI/G	.61	-	0.80 PCI/G	.59	-			
URANIUM-235/236	4.40 PCI/G		U				0.50 PCI/G		U	1.10 PCI/G	.32	J			
THORIUM-232	2.65 PCI/G	.66	J				2.21 PCI/G	.49	-	2.02 PCI/G	.47	J			
THORIUM, TOTAL	23.90 MG/KG	6	J				20.00 MG/KG	4.4	-	18.30 MG/KG	4.3	J			
RADIUM-228	2.20 PCI/G	.34	-				2.19 PCI/G	.34	-	1.66 PCI/G	.29	-			
THORIUM-228	2.78 PCI/G	.69	J				2.51 PCI/G	.54	-	2.08 PCI/G	.48	J			
NEPTUNIUM-237	0.78 PCI/G	.33	J				0.60 PCI/G		UJ	0.60 PCI/G		UJ			
PLUTONIUM-239/240	0.60 PCI/G		U				0.60 PCI/G		U	0.60 PCI/G		U			
PLUTONIUM-238	0.60 PCI/G		U				0.60 PCI/G		U	0.60 PCI/G		U			
STRONTIUM-90	0.80 PCI/G		U				0.90 PCI/G		U	0.90 PCI/G		U			
TECHNETIUM-99	1.00 PCI/G		U				1.00 PCI/G		UJ	1.00 PCI/G		U			
RUTHENIUM-106	1.30 PCI/G		U				1.50 PCI/G		U	1.30 PCI/G		U			
CESIUM-137	0.20 PCI/G		U				0.20 PCI/G		U	0.20 PCI/G		U			
GROSS ALPHA	52.80 PCI/G	16.4	NV				36.20 PCI/G	12.9	NV	65.00 PCI/G	18.8	NV			
GROSS BETA	35.90 PCI/G	9	NV				21.30 PCI/G	6.3	NV	49.90 PCI/G	11.6	NV			
RADIUM-224	2.96 PCI/G	.36	-				3.05 PCI/G	.37	-	2.29 PCI/G	.29	-			

000039

5704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067028	067029	067038	067039	067043
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT			IT
WELL OR BORING NUMBER:	1710	1710	1710	1710	1710
DEPTH:	3-4.5	4.5-5	16.5-18	16.5-18	22.5-23
DATE COLLECTED:	31-MAY-91	31-MAY-91	01-JUN-91	01-JUN-91	01-JUN-91
NORTH COORDINATE:	477931.49	477931.49	477931.49	477931.49	477931.49
EAST COORDINATE:	1378993.33	1378993.33	1378993.33	1378993.33	1378993.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	R-NA	-	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM				6470.00 MG/KG		-									
ANTIMONY				8.40 MG/KG		UR									
ARSENIC				31.70 MG/KG		-									
BARIUM				637.00 MG/KG		-									
BERYLLIUM				6.70 MG/KG		-									
CADMIUM				0.78 MG/KG		-									
CALCIUM				5880.00 MG/KG		-									
CHROMIUM				7.30 MG/KG		-									
COBALT				11.20 MG/KG		-									
COPPER				34.40 MG/KG		-									
CYANIDE				0.69 MG/KG		-									
IRON				12100.00 MG/KG		-									
LEAD				13.10 MG/KG		J									
MAGNESIUM				978.00 MG/KG		J									
MANGANESE				106.00 MG/KG		-									
MERCURY				0.14 MG/KG		UJ									
MOLYBDENUM				4.30 MG/KG		-									
NICKEL				19.60 MG/KG		-									
POTASSIUM				1030.00 MG/KG		-									
SELENIUM				1.40 MG/KG		-									
SILVER				2.80 MG/KG		UJ									
SODIUM				294.00 MG/KG		-									
THALLIUM				0.56 MG/KG		UJ									
VANADIUM				28.30 MG/KG		-									
ZINC				14.50 MG/KG		-									
PESTICIDES															
4,4'-DDD				23.00 UG/KG		U									
4,4'-DDE				23.00 UG/KG		U									

000038

SAMPLE NUMBER:	067028			067029			067038			067039			067043		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT				23.00 UG/KG		U									
ALDRIN				11.00 UG/KG		U									
ALPHA-BHC				11.00 UG/KG		U									
ALPHA-CHLORDANE				110.00 UG/KG		U									
AROCLOR-1016				110.00 UG/KG		U									
AROCLOR-1221				110.00 UG/KG		U									
AROCLOR-1232				110.00 UG/KG		U									
AROCLOR-1242				110.00 UG/KG		U									
AROCLOR-1248				110.00 UG/KG		U									
AROCLOR-1254				230.00 UG/KG		U									
AROCLOR-1260				230.00 UG/KG		U									
BETA-BHC				11.00 UG/KG		U									
DELTA-BHC				11.00 UG/KG		U									
DIELDRIN				23.00 UG/KG		U									
ENDOSULFAN II				23.00 UG/KG		U									
ENDOSULFAN SULFATE				23.00 UG/KG		U									
ENDOSULFAN-I				11.00 UG/KG		U									
ENDRIN				23.00 UG/KG		U									
ENDRIN KETONE				23.00 UG/KG		U									
GAMMA-BHC (LINDANE)				11.00 UG/KG		U									
GAMMA-CHLORDANE				110.00 UG/KG		U									
HEPTACHLOR				11.00 UG/KG		U									
HEPTACHLOR EPOXIDE				11.00 UG/KG		U									
METHOXYCHLOR				110.00 UG/KG		U									
TOXAPHENE				230.00 UG/KG		U									
RADIONUCLIDES															
URANIUM-238	11.80 PCI/G	1.6	-												
URANIUM, TOTAL	38.20 MG/KG	5.84	J										128.00 MG/KG	14	J
URANIUM-234	11.40 PCI/G	1.6	-										51.40 PCI/G	5.9	J
THORIUM-230	3.31 PCI/G	.71	J										12.80 PCI/G	2	J
RADIUM-226	2.35 PCI/G	.23	-										6.36 PCI/G	.42	J
LEAD-210	1.18 PCI/G	.57	-										2.75 PCI/G	.64	J
URANIUM-235/236	0.57 PCI/G	.29	J										2.04 PCI/G	.39	J
THORIUM-232	2.47 PCI/G	.58	J										4.00 PCI/G	.78	-
THORIUM, TOTAL	22.20 MG/KG	5.2	J										36.10 MG/KG	7	-
RADIUM-228	2.46 PCI/G	.35	-										2.88 PCI/G	.34	J
THORIUM-228	2.64 PCI/G	.61	J										4.10 PCI/G	.79	J
NEPTUNIUM-237	0.60 PCI/G		UJ										0.60 PCI/G		U
PLUTONIUM-239/240	0.60 PCI/G		U										0.60 PCI/G		UJ
PLUTONIUM-238	0.60 PCI/G		U										0.50 PCI/G		U
STRONTIUM-90	0.90 PCI/G		U										1.00 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		U										1.20 PCI/G		UJ
RUTHENIUM-106	1.40 PCI/G		U												

000039

5704

SAMPLE NUMBER:	067028			067029			067038			067039			067043		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
CESIUM-137	0.20 PCI/G		U										0.20 PCI/G		UJ
GROSS ALPHA	55.80 PCI/G	17.6	NV										140.00 PCI/G	35	NV
GROSS BETA	41.80 PCI/G	10	NV										75.00 PCI/G	16	NV
RADIUM-224	3.05 PCI/G	.36	-										3.11 PCI/G	.36	J
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				460.00 UG/KG		U									
1,2-DICHLOROBENZENE				460.00 UG/KG		U									
1,3-DICHLOROBENZENE				460.00 UG/KG		U									
1,4-DICHLOROBENZENE				460.00 UG/KG		U									
2,4,5-TRICHLOROPHENOL				2200.00 UG/KG		U									
2,4,6-TRICHLOROPHENOL				460.00 UG/KG		U									
2,4-DICHLOROPHENOL				460.00 UG/KG		U									
2,4-DIMETHYLPHENOL				460.00 UG/KG		U									
2,4-DINITROPHENOL				2200.00 UG/KG		UJ									
2,4-DINITROTOLUENE				460.00 UG/KG		U									
2,6-DINITROTOLUENE				460.00 UG/KG		U									
2-CHLORONAPHTHALENE				460.00 UG/KG		U									
2-CHLOROPHENOL				460.00 UG/KG		U									
2-METHYLNAPHTHALENE				460.00 UG/KG		U									
2-METHYLPHENOL				460.00 UG/KG		U									
2-NITROANILINE				2200.00 UG/KG		U									
2-NITROPHENOL				460.00 UG/KG		U									
3,3'-DICHLOROBENZIDINE				920.00 UG/KG		U									
3-NITROANILINE				2200.00 UG/KG		UJ									
4,6-DINITRO-2-METHYLPHENOL				2200.00 UG/KG		U									
4-BROMOPHENYL PHENYL ETHER				460.00 UG/KG		U									
4-CHLORO-3-METHYLPHENOL				460.00 UG/KG		U									
4-CHLOROPHENYLPHENYL ETHER				460.00 UG/KG		U									
4-METHYLPHENOL				460.00 UG/KG		U									
4-NITROANILINE				2200.00 UG/KG		U									
4-NITROPHENOL				2200.00 UG/KG		U									
ACENAPHTHENE				460.00 UG/KG		U									
ACENAPHTHYLENE				460.00 UG/KG		U									
ANTHRACENE				460.00 UG/KG		U									
BENZO(A)ANTHRACENE				460.00 UG/KG		U									
BENZO(A)PYRENE				460.00 UG/KG		U									
BENZO(B)FLUORANTHENE				460.00 UG/KG		U									
BENZO(G,H,I)PERYLENE				460.00 UG/KG		U									
BENZO(K)FLUORANTHENE				460.00 UG/KG		U									
BENZOIC ACID				2200.00 UG/KG		UJ									
BENZYL ALCOHOL				460.00 UG/KG		U									
BIS(2-CHLOROETHOXY)METHANE				460.00 UG/KG		U									
BIS(2-CHLOROETHYL)ETHER				460.00 UG/KG		U									

000040

SAMPLE NUMBER:	067028			067029			067038			067039			067043		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER				460.00 UG/KG		U									
BIS(2-ETHYLHEXYL)PHTHALATE				460.00 UG/KG		U									
BUTYL BENZYL PHTHALATE				460.00 UG/KG		U									
CHRYSENE				460.00 UG/KG		U									
DI-N-BUTYL PHTHALATE				460.00 UG/KG		U									
DI-N-OCTYL PHTHALATE				460.00 UG/KG		U									
DIBENZO(A,H)ANTHRACENE				460.00 UG/KG		U									
DIBENZOFURAN				460.00 UG/KG		U									
DIETHYL PHTHALATE				460.00 UG/KG		U									
DIMETHYL PHTHALATE				460.00 UG/KG		U									
FLUORANTHENE				460.00 UG/KG		U									
FLUORENE				460.00 UG/KG		U									
HEXACHLOROBENZENE				460.00 UG/KG		U									
HEXACHLOROBUTADIENE				460.00 UG/KG		U									
HEXACHLOROCYCLOPENTADIENE				460.00 UG/KG		U									
HEXACHLOROETHANE				460.00 UG/KG		U									
INDENO(1,2,3-CD)PYRENE				460.00 UG/KG		U									
ISOPHORONE				460.00 UG/KG		U									
N-NITROSO-DI-N-PROPYLAMINE				460.00 UG/KG		U									
N-NITROSODIPHENYLAMINE				460.00 UG/KG		U									
NAPHTHALENE				460.00 UG/KG		U									
NITROBENZENE				460.00 UG/KG		U									
P-CHLOROANILINE				460.00 UG/KG		U									
PENTACHLOROPHENOL				2200.00 UG/KG		U									
PHENANTHRENE				460.00 UG/KG		U									
PHENOL				460.00 UG/KG		U									
PYRENE				460.00 UG/KG		U									
VOLATILES															
1,1,1-TRICHLOROETHANE				7.00 UG/KG		UR									
1,1,2,2-TETRACHLOROETHANE				7.00 UG/KG		UR									
1,1,2-TRICHLOROETHANE				7.00 UG/KG		UR									
1,1-DICHLOROETHANE				7.00 UG/KG		UJ									
1,1-DICHLOROETHENE				7.00 UG/KG		UR									
1,2-DICHLOROETHANE				7.00 UG/KG		UJ									
1,2-DICHLOROETHENE (TOTAL)				7.00 UG/KG		UJ									
1,2-DICHLOROPROPANE				7.00 UG/KG		UR									
2-BUTANONE				14.00 UG/KG		UR									
2-HEXANONE				14.00 UG/KG		UR									
4-METHYL-2-PENTANONE				2.00 UG/KG		J									
ACETONE				25.00 UG/KG		UJ									
BENZENE				7.00 UG/KG		UR									
BROMODICHLOROMETHANE				7.00 UG/KG		UR									
BROMOFORM				7.00 UG/KG		UR									

000041

B704

SAMPLE NUMBER:	067028			067029			067038			067039			067043		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOMETHANE				14.00 UG/KG		UJ									
CARBON DISULFIDE				7.00 UG/KG		UJ									
CARBON TETRACHLORIDE				7.00 UG/KG		UR									
CHLOROBENZENE				7.00 UG/KG		UR									
CHLOROETHANE				14.00 UG/KG		UJ									
CHLOROFORM				7.00 UG/KG		UJ									
CHLOROMETHANE				14.00 UG/KG		UJ									
CIS-1,3-DICHLOROPROPENE				7.00 UG/KG		UR									
DIBROMOCHLOROMETHANE				7.00 UG/KG		UR									
ETHYLBENZENE				7.00 UG/KG		UR									
METHYLENE CHLORIDE				20.00 UG/KG		UJ									
STYRENE				7.00 UG/KG		UR									
TETRACHLOROETHENE				7.00 UG/KG		UR									
TOLUENE				7.00 UG/KG		UR									
TRANS-1,3-DICHLOROPROPENE				7.00 UG/KG		UR									
TRICHLOROETHENE				7.00 UG/KG		UR									
VINYL ACETATE				14.00 UG/KG		UR									
VINYL CHLORIDE				14.00 UG/KG		UJ									
XYLENES, TOTAL				7.00 UG/KG		UR									

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067046	067047	067032	067009	067010
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT		IT
WELL OR BORING NUMBER:	1710	1710	1710	1711	1711
DEPTH:	27-28.5	28.5-30	9-10.5	0-1.5	1.5-3
DATE COLLECTED:	01-JUN-91	01-JUN-91	31-MAY-91	23-MAY-91	23-MAY-91
NORTH COORDINATE:	477931.49	477931.49	477931.49	478126.52	478126.52
EAST COORDINATE:	1378993.33	1378993.33	1378993.33	1378968.88	1378968.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	R-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM				2130.00 MG/KG		-	5210.00 MG/KG		-						
ANTIMONY				15.00 MG/KG		J	8.00 MG/KG		UR						
ARSENIC				3.00 MG/KG		-	20.70 MG/KG		-						
BARIUM				13.10 MG/KG		-	892.00 MG/KG		-						
BERYLLIUM				0.56 MG/KG		-	2.40 MG/KG		-						
CADMIUM				4.10 MG/KG		-	1.00 MG/KG		-						
CALCIUM				123000.00 MG/KG		-	6700.00 MG/KG		-						
CHROMIUM				5.60 MG/KG		-	5.80 MG/KG		-						
COBALT				5.20 MG/KG		-	12.10 MG/KG		-						
COPPER				21.30 MG/KG		-	26.60 MG/KG		-						
CYANIDE				0.42 MG/KG		-	0.62 MG/KG		-						
IRON				7170.00 MG/KG		-	20100.00 MG/KG		-						
LEAD				6.40 MG/KG		J	11.70 MG/KG		J						
MAGNESIUM				25100.00 MG/KG		J	809.00 MG/KG		J						
MANGANESE				319.00 MG/KG		-	411.00 MG/KG		-						
MERCURY				0.11 MG/KG		UJ	0.12 MG/KG		UJ						
MOLYBDENUM				3.60 MG/KG		-	3.40 MG/KG		-						
NICKEL				17.50 MG/KG		-	19.50 MG/KG		-						
POTASSIUM				473.00 MG/KG		-	821.00 MG/KG		-						
SELENIUM				0.45 MG/KG		UJ	3.10 MG/KG		J						
SILVER				4.30 MG/KG		J	2.70 MG/KG		UJ						
SODIUM				211.00 MG/KG		-	271.00 MG/KG		-						
THALLIUM				0.45 MG/KG		UJ	0.54 MG/KG		UJ						
VANADIUM				10.70 MG/KG		-	22.60 MG/KG		-						
ZINC				25.80 MG/KG		-	12.20 MG/KG		-						
PESTICIDES															
4,4'-DDD				37.00 UG/KG		U	22.00 UG/KG		U						
4,4'-DDE				37.00 UG/KG		U	22.00 UG/KG		U						

000043

5704

SAMPLE NUMBER:	067046			067047			067032			067009			067010		
LAB:				IT			IT								
SUFFIX/FILTERFLAG:	-			DL-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT				37.00 UG/KG		U	22.00 UG/KG		U						
ALDRIN				18.00 UG/KG		U	11.00 UG/KG		U						
ALPHA-BHC				9.20 UG/KG		UR	11.00 UG/KG		U						
ALPHA-CHLORDANE				180.00 UG/KG		U	110.00 UG/KG		U						
AROCLOR-1016				180.00 UG/KG		U	110.00 UG/KG		U						
AROCLOR-1221				92.00 UG/KG		UR	110.00 UG/KG		U						
AROCLOR-1232				180.00 UG/KG		U	110.00 UG/KG		U						
AROCLOR-1242				92.00 UG/KG		UR	110.00 UG/KG		U						
AROCLOR-1248				180.00 UG/KG		U	110.00 UG/KG		U						
AROCLOR-1254				370.00 UG/KG		U	220.00 UG/KG		U						
AROCLOR-1260				390.00 UG/KG		-	220.00 UG/KG		U						
BETA-BHC				9.20 UG/KG		UR	11.00 UG/KG		U						
DELTA-BHC				9.20 UG/KG		UR	11.00 UG/KG		U						
DIELDRIN				18.00 UG/KG		UR	22.00 UG/KG		U						
ENDOSULFAN II				18.00 UG/KG		UR	22.00 UG/KG		U						
ENDOSULFAN SULFATE				37.00 UG/KG		U	22.00 UG/KG		U						
ENDOSULFAN-I				9.20 UG/KG		UR	11.00 UG/KG		U						
ENDRIN				37.00 UG/KG		U	22.00 UG/KG		U						
ENDRIN KETONE				18.00 UG/KG		UR	22.00 UG/KG		U						
GAMMA-BHC (LINDANE)				18.00 UG/KG		U	11.00 UG/KG		U						
GAMMA-CHLORDANE				92.00 UG/KG		UR	110.00 UG/KG		U						
HEPTACHLOR				9.20 UG/KG		UR	11.00 UG/KG		U						
HEPTACHLOR EPOXIDE				18.00 UG/KG		U	11.00 UG/KG		U						
METHOXYCHLOR				92.00 UG/KG		UR	110.00 UG/KG		U						
TOXAPHENE				180.00 UG/KG		UR	220.00 UG/KG		U						
RADIONUCLIDES															
URANIUM-238	180.00 PCI/G	13	-										40.10 PCI/G	4.6	-
URANIUM, TOTAL	660.00 MG/KG	67	-										123.00 MG/KG	14	-
URANIUM-234	187.00 PCI/G	25	-										42.00 PCI/G	4.8	-
THORIUM-230	54.60 PCI/G	7.8	-										1.41 PCI/G	.33	J
RADIUM-226	36.00 PCI/G	1.9	-										2.74 PCI/G	.25	-
LEAD-210	16.80 PCI/G	2.1	-										1.24 PCI/G	.69	-
URANIUM-235/236	12.70 PCI/G	1.2	-										2.42 PCI/G	.44	-
THORIUM-232	3.28 PCI/G	.69	-										0.80 PCI/G	.24	J
THORIUM, TOTAL	29.60 MG/KG	6.3	-										7.22 MG/KG	2.14	J
RADIUM-228	3.12 PCI/G	.44	-										2.16 PCI/G	.32	-
THORIUM-228	3.03 PCI/G	.66	J										0.79 PCI/G	.23	J
NEPTUNIUM-237	0.60 PCI/G		UJ										0.60 PCI/G		UJ
PLUTONIUM-239/240	1.00 PCI/G		U										0.60 PCI/G		R
PLUTONIUM-238	1.00 PCI/G		U										0.60 PCI/G		R
STRONTIUM-90	1.74 PCI/G	.35	-										1.10 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		UJ										1.00 PCI/G		U
RUTHENIUM-106	1.80 PCI/G		U										1.50 PCI/G		U

000044

SAMPLE NUMBER:	067046			067047			067032			067009			067010		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
CESIUM-137	0.20 PCI/G		U										0.20 PCI/G		U
GROSS ALPHA	766.00 PCI/G	160	NV										102.00 PCI/G	26	NV
GROSS BETA	442.00 PCI/G	90	NV										72.30 PCI/G	15.9	NV
RADIUM-224	3.49 PCI/G	.43	-										2.94 PCI/G	.36	-
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				370.00 UG/KG		U	450.00 UG/KG		U						
1,2-DICHLOROBENZENE				370.00 UG/KG		U	450.00 UG/KG		U						
1,3-DICHLOROBENZENE				370.00 UG/KG		U	440.00 UG/KG		UR						
1,4-DICHLOROBENZENE				370.00 UG/KG		U	450.00 UG/KG		U						
2,4,5-TRICHLOROPHENOL				1800.00 UG/KG		U	2200.00 UG/KG		UR						
2,4,6-TRICHLOROPHENOL				370.00 UG/KG		U	450.00 UG/KG		UJ						
2,4-DICHLOROPHENOL				370.00 UG/KG		U	440.00 UG/KG		UR						
2,4-DIMETHYLPHENOL				370.00 UG/KG		U	450.00 UG/KG		U						
2,4-DINITROPHENOL				1800.00 UG/KG		UJ	2200.00 UG/KG		UR						
2,4-DINITROTOLUENE				370.00 UG/KG		U	450.00 UG/KG		U						
2,6-DINITROTOLUENE				370.00 UG/KG		U	440.00 UG/KG		UR						
2-CHLORONAPHTHALENE				370.00 UG/KG		U	440.00 UG/KG		UR						
2-CHLOROPHENOL				370.00 UG/KG		U	450.00 UG/KG		UJ						
2-METHYLNAPHTHALENE				370.00 UG/KG		U	450.00 UG/KG		U						
2-METHYLPHENOL				370.00 UG/KG		U	440.00 UG/KG		UR						
2-NITROANILINE				1800.00 UG/KG		U	2200.00 UG/KG		U						
2-NITROPHENOL				370.00 UG/KG		U	440.00 UG/KG		UR						
3,3'-DICHLOROBENZIDINE				750.00 UG/KG		U	900.00 UG/KG		U						
3-NITROANILINE				1800.00 UG/KG		UJ	2200.00 UG/KG		UR						
4,6-DINITRO-2-METHYLPHENOL				1800.00 UG/KG		U	2200.00 UG/KG		UR						
4-BROMOPHENYL PHENYL ETHER				370.00 UG/KG		U	450.00 UG/KG		U						
4-CHLORO-3-METHYLPHENOL				370.00 UG/KG		U	440.00 UG/KG		UR						
4-CHLOROPHENYLPHENYL ETHER				370.00 UG/KG		U	450.00 UG/KG		U						
4-METHYLPHENOL				370.00 UG/KG		U	450.00 UG/KG		UJ						
4-NITROANILINE				1800.00 UG/KG		U	2200.00 UG/KG		UR						
4-NITROPHENOL				1800.00 UG/KG		U	2200.00 UG/KG		UJ						
ACENAPHTHENE				370.00 UG/KG		U	440.00 UG/KG		UR						
ACENAPHTHYLENE				370.00 UG/KG		U	450.00 UG/KG		U						
ANTHRACENE				370.00 UG/KG		U	450.00 UG/KG		U						
BENZO(A)ANTHRACENE				370.00 UG/KG		U	450.00 UG/KG		U						
BENZO(A)PYRENE				370.00 UG/KG		U	440.00 UG/KG		UR						
BENZO(B)FLUORANTHENE				370.00 UG/KG		U	450.00 UG/KG		U						
BENZO(G,H,I)PERYLENE				370.00 UG/KG		U	440.00 UG/KG		UR						
BENZO(K)FLUORANTHENE				370.00 UG/KG		U	450.00 UG/KG		U						
BENZOIC ACID				1800.00 UG/KG		UJ	2200.00 UG/KG		UR						
BENZYL ALCOHOL				370.00 UG/KG		U	450.00 UG/KG		U						
BIS(2-CHLOROETHOXY)METHANE				370.00 UG/KG		U	440.00 UG/KG		UR						
BIS(2-CHLOROETHYL)ETHER				370.00 UG/KG		U	450.00 UG/KG		U						

000045

5704

SAMPLE NUMBER:	067046			067047			067032			067009			067010		
LAB:				IT			IT								
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER				370.00 UG/KG		U	440.00 UG/KG		UR						
BIS(2-ETHYLHEXYL)PHTHALATE				620.00 UG/KG		-	450.00 UG/KG		U						
BUTYL BENZYL PHTHALATE				370.00 UG/KG		U	440.00 UG/KG		UR						
CHRYSENE				370.00 UG/KG		U	450.00 UG/KG		U						
DI-N-BUTYL PHTHALATE				370.00 UG/KG		U	450.00 UG/KG		U						
DI-N-OCTYL PHTHALATE				370.00 UG/KG		U	440.00 UG/KG		UR						
DIBENZO(A,H)ANTHRACENE				370.00 UG/KG		U	450.00 UG/KG		U						
DIBENZOFURAN				370.00 UG/KG		U	440.00 UG/KG		UR						
DIETHYL PHTHALATE				370.00 UG/KG		U	450.00 UG/KG		U						
DIMETHYL PHTHALATE				370.00 UG/KG		U	440.00 UG/KG		UR						
FLUORANTHENE				370.00 UG/KG		U	450.00 UG/KG		U						
FLUORENE				370.00 UG/KG		U	440.00 UG/KG		UR						
HEXACHLOROBENZENE				370.00 UG/KG		U	440.00 UG/KG		UR						
HEXACHLOROBUTADIENE				370.00 UG/KG		U	450.00 UG/KG		U						
HEXACHLOROCYCLOPENTADIENE				370.00 UG/KG		U	440.00 UG/KG		UR						
HEXACHLOROETHANE				370.00 UG/KG		U	450.00 UG/KG		U						
INDENO(1,2,3-CD)PYRENE				370.00 UG/KG		U	440.00 UG/KG		UR						
ISOPHORONE				370.00 UG/KG		U	450.00 UG/KG		U						
N-NITROSO-DI-N-PROPYLAMINE				370.00 UG/KG		U	450.00 UG/KG		U						
N-NITROSODIPHENYLAMINE				370.00 UG/KG		U	440.00 UG/KG		UR						
NAPHTHALENE				370.00 UG/KG		U	450.00 UG/KG		U						
NITROBENZENE				370.00 UG/KG		U	450.00 UG/KG		U						
P-CHLOROANILINE				370.00 UG/KG		U	450.00 UG/KG		U						
PENTACHLOROPHENOL				1800.00 UG/KG		U	2200.00 UG/KG		UR						
PHENANTHRENE				370.00 UG/KG		U	450.00 UG/KG		U						
PHENOL				370.00 UG/KG		U	440.00 UG/KG		UR						
PYRENE				370.00 UG/KG		U	450.00 UG/KG		U						
VOLATILES															
1,1,1-TRICHLOROETHANE				6.00 UG/KG		U	170.00 UG/KG		R						
1,1,2,2-TETRACHLOROETHANE				6.00 UG/KG		U	7.00 UG/KG		UR						
1,1,2-TRICHLOROETHANE				6.00 UG/KG		U	7.00 UG/KG		UR						
1,1-DICHLOROETHANE				6.00 UG/KG		U	7.00 UG/KG		UJ						
1,1-DICHLOROETHENE				6.00 UG/KG		U	7.00 UG/KG		UR						
1,2-DICHLOROETHANE				6.00 UG/KG		U	7.00 UG/KG		UR						
1,2-DICHLOROETHENE (TOTAL)				6.00 UG/KG		U	7.00 UG/KG		UR						
1,2-DICHLOROPROPANE				6.00 UG/KG		U	7.00 UG/KG		UR						
2-BUTANONE				11.00 UG/KG		U	13.00 UG/KG		UR						
2-HEXANONE				11.00 UG/KG		U	13.00 UG/KG		UR						
4-METHYL-2-PENTANONE				1.00 UG/KG		J	13.00 UG/KG		UR						
ACETONE				35.00 UG/KG		R	13.00 UG/KG		UR						
BENZENE				6.00 UG/KG		U	7.00 UG/KG		UR						
BROMODICHLOROMETHANE				6.00 UG/KG		U	7.00 UG/KG		UR						
BROMOFORM				6.00 UG/KG		U	7.00 UG/KG		UR						

000046

SAMPLE NUMBER:	067046			067047			067032			067009			067010		
LAB:				IT			IT								
SUFFIX/FILTERFLAG:	-			NONE-NA			R-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOMETHANE				11.00 UG/KG		UJ	13.00 UG/KG		UJ						
CARBON DISULFIDE				6.00 UG/KG		UJ	7.00 UG/KG		UR						
CARBON TETRACHLORIDE				6.00 UG/KG		U	7.00 UG/KG		UR						
CHLOROBENZENE				6.00 UG/KG		U	7.00 UG/KG		UR						
CHLOROETHANE				11.00 UG/KG		U	13.00 UG/KG		UJ						
CHLOROFORM				6.00 UG/KG		U	7.00 UG/KG		UR						
CHLOROMETHANE				11.00 UG/KG		UJ	13.00 UG/KG		UJ						
CIS-1,3-DICHLOROPROPENE				6.00 UG/KG		U	7.00 UG/KG		UR						
DIBROMOCHLOROMETHANE				6.00 UG/KG		U	7.00 UG/KG		UR						
ETHYLBENZENE				6.00 UG/KG		U	7.00 UG/KG		UR						
METHYLENE CHLORIDE				12.00 UG/KG		UJ	10.00 UG/KG		UJ						
STYRENE				6.00 UG/KG		U	7.00 UG/KG		UR						
TETRACHLOROETHENE				6.00 UG/KG		U	7.00 UG/KG		UR						
TOLUENE				6.00 UG/KG		U	7.00 UG/KG		UR						
TRANS-1,3-DICHLOROPROPENE				6.00 UG/KG		U	7.00 UG/KG		UR						
TRICHLOROETHENE				6.00 UG/KG		U	7.00 UG/KG		UR						
VINYL ACETATE				11.00 UG/KG		U	13.00 UG/KG		UR						
VINYL CHLORIDE				11.00 UG/KG		U	13.00 UG/KG		UR						
XYLENES, TOTAL				6.00 UG/KG		U	7.00 UG/KG		UR						

000037

5704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067014	067016	067017	067019	067020
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT			IT	IT
WELL OR BORING NUMBER:	1711	1711	1711	1711	1711
DEPTH:	7.5-9	10.5-12	10.5-12	13.5-15	18-19.5
DATE COLLECTED:	29-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91
NORTH COORDINATE:	478126.52	478126.52	478126.52	478126.52	478126.52
EAST COORDINATE:	1378968.88	1378968.88	1378968.88	1378968.88	1378968.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	-	NONE-NA	R-NA

	067014 RESULT	SIGMA	VAL QUAL(1)	067016 RESULT	SIGMA	VAL QUAL(1)	067017 RESULT	SIGMA	VAL QUAL(1)	067019 RESULT	SIGMA	VAL QUAL(1)	067020 RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM													8840.00 MG/KG		-
ANTIMONY													16.30 MG/KG		J
ARSENIC													6.90 MG/KG		J
BARIUM													89.60 MG/KG		-
BERYLLIUM													0.77 MG/KG		-
CADMIUM													2.00 MG/KG		-
CALCIUM													9090.00 MG/KG		J
CHROMIUM													19.10 MG/KG		-
COBALT													10.50 MG/KG		-
COPPER													44.90 MG/KG		-
CYANIDE													0.18 MG/KG		-
IRON													15900.00 MG/KG		-
LEAD													57.00 MG/KG		-
MAGNESIUM													3930.00 MG/KG		-
MANGANESE													261.00 MG/KG		-
MERCURY													0.44 MG/KG		-
MOLYBDENUM													3.30 MG/KG		-
NICKEL													18.30 MG/KG		-
POTASSIUM													966.00 MG/KG		-
SELENIUM													0.73 MG/KG		J
SILVER													4.40 MG/KG		-
SODIUM													100.00 MG/KG		-
THALLIUM													0.55 MG/KG		U
VANADIUM													21.70 MG/KG		-
ZINC													102.00 MG/KG		-
PESTICIDES															
4,4'-DDD													22.00 UG/KG		U
4,4'-DDE													22.00 UG/KG		U

000048

SAMPLE NUMBER:	067014			067016			067017			067019			067020		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT													22.00 UG/KG		U
ALDRIN													11.00 UG/KG		U
ALPHA-BHC													11.00 UG/KG		U
ALPHA-CHLORDANE													110.00 UG/KG		U
AROCLOR-1016													110.00 UG/KG		U
AROCLOR-1221													110.00 UG/KG		U
AROCLOR-1232													110.00 UG/KG		U
AROCLOR-1242													110.00 UG/KG		U
AROCLOR-1248													110.00 UG/KG		U
AROCLOR-1254													210.00 UG/KG		J
AROCLOR-1260													220.00 UG/KG		U
BETA-BHC													11.00 UG/KG		U
DELTA-BHC													11.00 UG/KG		U
DIELDRIN													22.00 UG/KG		U
ENDOSULFAN II													22.00 UG/KG		U
ENDOSULFAN SULFATE													22.00 UG/KG		U
ENDOSULFAN-I													11.00 UG/KG		U
ENDRIN													22.00 UG/KG		U
ENDRIN KETONE													22.00 UG/KG		U
GAMMA-BHC (LINDANE)													11.00 UG/KG		U
GAMMA-CHLORDANE													110.00 UG/KG		U
HEPTACHLOR													11.00 UG/KG		U
HEPTACHLOR EPOXIDE													11.00 UG/KG		U
METHOXYCHLOR													110.00 UG/KG		U
TOXAPHENE													220.00 UG/KG		U
RADIONUCLIDES															
URANIUM-238	6.07 PCI/G	.85	J							3.52 PCI/G	.66	J			
URANIUM, TOTAL	18.20 MG/KG	4.3	J							18.00 MG/KG	4	J			
URANIUM-234	5.93 PCI/G	.85	-							4.95 PCI/G	.72	-			
THORIUM-230	6.09 PCI/G	1.21	-							2.14 PCI/G	.47	J			
RADIUM-226	4.11 PCI/G	.32	-							1.48 PCI/G	.17	-			
LEAD-210	1.87 PCI/G	.59	-							0.71 PCI/G	.48	-			
URANIUM-235/236	0.50 PCI/G		U							0.40 PCI/G		U			
THORIUM-232	3.10 PCI/G	.74	-							1.10 PCI/G	.3	J			
THORIUM, TOTAL	28.00 MG/KG	6.7	-							9.89 MG/KG	2.75	J			
RADIUM-228	2.67 PCI/G	.35	-							1.27 PCI/G	.26	-			
THORIUM-228	3.34 PCI/G	.79	-							1.56 PCI/G	.38	J			
NEPTUNIUM-237	0.60 PCI/G		UJ							0.60 PCI/G		UJ			
PLUTONIUM-239/240	0.60 PCI/G		U							0.60 PCI/G		U			
PLUTONIUM-238	0.60 PCI/G		U							0.60 PCI/G		U			
STRONTIUM-90	0.90 PCI/G		U							0.90 PCI/G		U			
TECHNETIUM-99	1.00 PCI/G		U							1.00 PCI/G		U			
RUTHENIUM-106	1.40 PCI/G		U							1.20 PCI/G		U			

000049

5704

SAMPLE NUMBER:	067014			067016			067017			067019			067020		
LAB:	IT									IT					
SUFFIX/FILTERFLAG:	NONE-NA			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
CESIUM-137	0.20 PCI/G		U							0.20 PCI/G		U			
GROSS ALPHA	59.00 PCI/G	17.7	NV							24.80 PCI/G	11.3	NV			
GROSS BETA	36.30 PCI/G	9.1	NV							28.60 PCI/G	7.7	NV			
RADIUM-224	3.22 PCI/G	.38	-							1.71 PCI/G	.24	-			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE													460.00 UG/KG		U
1,2-DICHLOROBENZENE													460.00 UG/KG		U
1,3-DICHLOROBENZENE													460.00 UG/KG		U
1,4-DICHLOROBENZENE													460.00 UG/KG		U
2,4,5-TRICHLOROPHENOL													2200.00 UG/KG		U
2,4,6-TRICHLOROPHENOL													460.00 UG/KG		U
2,4-DICHLOROPHENOL													460.00 UG/KG		U
2,4-DIMETHYLPHENOL													460.00 UG/KG		U
2,4-DINITROPHENOL													2200.00 UG/KG		UJ
2,4-DINITROTOLUENE													460.00 UG/KG		U
2,6-DINITROTOLUENE													460.00 UG/KG		U
2-CHLORONAPHTHALENE													460.00 UG/KG		U
2-CHLOROPHENOL													460.00 UG/KG		U
2-METHYLNAPHTHALENE													460.00 UG/KG		U
2-METHYLPHENOL													460.00 UG/KG		U
2-NITROANILINE													2200.00 UG/KG		U
2-NITROPHENOL													460.00 UG/KG		U
3,3'-DICHLOROBENZIDINE													930.00 UG/KG		U
3-NITROANILINE													2200.00 UG/KG		U
4,6-DINITRO-2-METHYLPHENOL													2200.00 UG/KG		UJ
4-BROMOPHENYL PHENYL ETHER													460.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL													460.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER													460.00 UG/KG		U
4-METHYLPHENOL													460.00 UG/KG		U
4-NITROANILINE													2200.00 UG/KG		U
4-NITROPHENOL													2200.00 UG/KG		U
ACENAPHTHENE													460.00 UG/KG		U
ACENAPHTHYLENE													460.00 UG/KG		U
ANTHRACENE													460.00 UG/KG		U
BENZO(A)ANTHRACENE													460.00 UG/KG		U
BENZO(A)PYRENE													460.00 UG/KG		U
BENZO(B)FLUORANTHENE													460.00 UG/KG		U
BENZO(G,H,I)PERYLENE													460.00 UG/KG		U
BENZO(K)FLUORANTHENE													460.00 UG/KG		U
BENZOIC ACID													150.00 UG/KG		J
BENZYL ALCOHOL													460.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE													460.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER													460.00 UG/KG		U

000050

SAMPLE NUMBER:	067014			067016			067017			067019			067020		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER													460.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE													460.00 UG/KG		U
BUTYL BENZYL PHTHALATE													460.00 UG/KG		U
CHRYSENE													460.00 UG/KG		U
DI-N-BUTYL PHTHALATE													460.00 UG/KG		U
DI-N-OCTYL PHTHALATE													460.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE													460.00 UG/KG		U
DIBENZOFURAN													460.00 UG/KG		U
DIETHYL PHTHALATE													460.00 UG/KG		U
DIMETHYL PHTHALATE													460.00 UG/KG		U
FLUORANTHENE													460.00 UG/KG		U
FLUORENE													460.00 UG/KG		U
HEXACHLOROBENZENE													460.00 UG/KG		U
HEXACHLOROBUTADIENE													460.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE													460.00 UG/KG		U
HEXACHLOROETHANE													460.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE													460.00 UG/KG		U
ISOPHORONE													460.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE													460.00 UG/KG		U
N-NITROSODIPHENYLAMINE													460.00 UG/KG		U
NAPHTHALENE													460.00 UG/KG		U
NITROBENZENE													460.00 UG/KG		U
P-CHLOROANILINE													460.00 UG/KG		U
PENTACHLOROPHENOL													460.00 UG/KG		U
PHENANTHRENE													2200.00 UG/KG		U
PHENOL													460.00 UG/KG		U
PYRENE													460.00 UG/KG		U
													460.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE													7.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE													7.00 UG/KG		UR
1,1,2-TRICHLOROETHANE													7.00 UG/KG		U
1,1-DICHLOROETHANE													7.00 UG/KG		UR
1,1-DICHLOROETHENE													7.00 UG/KG		U
1,2-DICHLOROETHANE													7.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)													7.00 UG/KG		UR
1,2-DICHLOROPROPANE													7.00 UG/KG		UR
2-BUTANONE													14.00 UG/KG		UR
2-HEXANONE													14.00 UG/KG		UR
4-METHYL-2-PENTANONE													14.00 UG/KG		UR
ACETONE													21.00 UG/KG		R
BENZENE													7.00 UG/KG		UR
BROMODICHLOROMETHANE													7.00 UG/KG		UR
BROMOFORM													7.00 UG/KG		UR

000051

6704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067014			067016			067017			067019			067020		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOMETHANE													14.00 UG/KG		UR
CARBON DISULFIDE													7.00 UG/KG		UR
CARBON TETRACHLORIDE													7.00 UG/KG		UR
CHLOROBENZENE													7.00 UG/KG		UR
CHLOROETHANE													14.00 UG/KG		UR
CHLOROFORM													7.00 UG/KG		UR
CHLOROMETHANE													14.00 UG/KG		UR
CIS-1,3-DICHLOROPROPENE													7.00 UG/KG		UR
DIBROMOCHLOROMETHANE													7.00 UG/KG		UR
ETHYLBENZENE													7.00 UG/KG		UR
METHYLENE CHLORIDE													4.00 UG/KG		R
STYRENE													7.00 UG/KG		UR
TETRACHLOROETHENE													7.00 UG/KG		UR
TOLUENE													7.00 UG/KG		UR
TRANS-1,3-DICHLOROPROPENE													7.00 UG/KG		UR
TRICHLOROETHENE													7.00 UG/KG		UR
VINYL ACETATE													14.00 UG/KG		UR
VINYL CHLORIDE													14.00 UG/KG		UR
XYLENES, TOTAL													7.00 UG/KG		UR

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067012	067015	067121	067122	067604
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1711	1711	1791	1791	1849
DEPTH:	4.5-6	9-10.5	27-28.5	28.5-30	6-7.5
DATE COLLECTED:	29-MAY-91	29-MAY-91	25-JUN-91	25-JUN-91	22-FEB-92
NORTH COORDINATE:	478126.52	478126.52	477812.99	477812.99	477806.91
EAST COORDINATE:	1378968.88	1378968.88	1378970.18	1378970.18	1378975.19
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	067012 RESULT	SIGMA	VAL QUAL(1)	067015 RESULT	SIGMA	VAL QUAL(1)	067121 RESULT	SIGMA	VAL QUAL(1)	067122 RESULT	SIGMA	VAL QUAL(1)	067604 RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TOTAL ORGANIC CARBON													192011.00 MG/KG		-
INORGANICS															
ALUMINUM	3690.00 MG/KG		-	4970.00 MG/KG		-				7210.00 MG/KG		-			
ANTIMONY	8.80 MG/KG		J	10.40 MG/KG		J				6.50 MG/KG		UJ			
ARSENIC	28.00 MG/KG		J	35.40 MG/KG		J				3.60 MG/KG		J			
BARIUM	360.00 MG/KG		-	373.00 MG/KG		-				83.90 MG/KG		-			
BERYLLIUM	3.00 MG/KG		-	2.50 MG/KG		-				0.54 MG/KG		-			
CADMIUM	0.69 MG/KG		-	0.66 MG/KG		-				0.65 MG/KG		-			
CALCIUM	3430.00 MG/KG		J	2510.00 MG/KG		J				7810.00 MG/KG		-			
CHROMIUM	6.50 MG/KG		-	8.40 MG/KG		-				13.10 MG/KG		-			
COBALT	5.70 MG/KG		-	5.70 MG/KG		-				9.40 MG/KG		-			
COPPER	19.70 MG/KG		-	24.10 MG/KG		-				12.10 MG/KG		-			
CYANIDE	0.60 MG/KG		-	0.53 MG/KG		-									
IRON	8930.00 MG/KG		-	6390.00 MG/KG		-				13500.00 MG/KG		-			
LEAD	7.00 MG/KG		-	10.70 MG/KG		-				10.40 MG/KG		J			
MAGNESIUM	377.00 MG/KG		-	404.00 MG/KG		-				4800.00 MG/KG		-			
MANGANESE	102.00 MG/KG		-	41.80 MG/KG		-				602.00 MG/KG		J			
MERCURY	0.12 MG/KG		U	0.18 MG/KG		-				0.11 MG/KG		UJ			
MOLYBDENUM	3.20 MG/KG		-	4.00 MG/KG		-				8.10 MG/KG		-			
NICKEL	11.00 MG/KG		-	9.70 MG/KG		-				14.80 MG/KG		-			
POTASSIUM	456.00 MG/KG		-	704.00 MG/KG		-				1030.00 MG/KG		-			
SELENIUM	1.60 MG/KG		J	2.70 MG/KG		-				0.49 MG/KG		U			
SILVER	2.60 MG/KG		UJ	2.90 MG/KG		UJ				2.80 MG/KG		J			
SODIUM	108.00 MG/KG		-	157.00 MG/KG		-				91.70 MG/KG		-			
THALLIUM	1.00 MG/KG		-	1.00 MG/KG		-				0.49 MG/KG		U			
VANADIUM	24.30 MG/KG		-	33.50 MG/KG		-				16.70 MG/KG		-			
ZINC	10.50 MG/KG		-	12.00 MG/KG		-				36.70 MG/KG		-			

000053

PESTICIDES

4,4'-DDD	21.00 UG/KG		U	23.00 UG/KG		U				20.00 UG/KG		U			
06/14/94														

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

DRAFT
Page 52

SAMPLE NUMBER:	067012			067015			067121			067122			067604		
LAB:	IT			IT						IT					
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	21.00 UG/KG		U	23.00 UG/KG		U				20.00 UG/KG		U			
4,4'-DDT	21.00 UG/KG		U	23.00 UG/KG		U				20.00 UG/KG		U			
ALDRIN	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
ALPHA-BHC	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
ALPHA-CHLORDANE	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
AROCLOR-1016	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
AROCLOR-1221	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
AROCLOR-1232	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
AROCLOR-1242	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
AROCLOR-1248	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
AROCLOR-1254	210.00 UG/KG		U	230.00 UG/KG		U				200.00 UG/KG		U			
AROCLOR-1260	210.00 UG/KG		U	230.00 UG/KG		U				200.00 UG/KG		U			
BETA-BHC	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
DELTA-BHC	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
DIELDRIN	21.00 UG/KG		U	23.00 UG/KG		U				20.00 UG/KG		U			
ENDOSULFAN II	21.00 UG/KG		U	23.00 UG/KG		U				20.00 UG/KG		U			
ENDOSULFAN SULFATE	21.00 UG/KG		U	14.00 UG/KG		U				20.00 UG/KG		U			
ENDOSULFAN-I	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
ENDRIN	21.00 UG/KG		U	23.00 UG/KG		U				20.00 UG/KG		U			
ENDRIN KETONE	21.00 UG/KG		U	23.00 UG/KG		U				20.00 UG/KG		U			
GAMMA-BHC (LINDANE)	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
GAMMA-CHLORDANE	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
HEPTACHLOR	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
HEPTACHLOR EPOXIDE	11.00 UG/KG		U	12.00 UG/KG		U				9.90 UG/KG		U			
METHOXYCHLOR	110.00 UG/KG		U	120.00 UG/KG		U				99.00 UG/KG		U			
TOXAPHENE	210.00 UG/KG		U	230.00 UG/KG		U				200.00 UG/KG		U			
RADIONUCLIDES															
URANIUM, TOTAL							873.00 MG/KG	124	J						
THORIUM-230							1.73 PCI/G	.32	J						
RADIUM-226							1.39 PCI/G	.19	J						
THORIUM-232							0.95 PCI/G	.21	J						
THORIUM, TOTAL							8.58 MG/KG	1.93	J						
RADIUM-228							1.03 PCI/G	.29	J						
THORIUM-228							1.11 PCI/G	.24	J						
NEPTUNIUM-237							0.60 PCI/G		UJ						
PLUTONIUM-239/240							0.60 PCI/G		U						
PLUTONIUM-238							0.60 PCI/G		UJ						
STRONTIUM-90							1.00 PCI/G		U						
TECHNETIUM-99							1.00 PCI/G		U						

000054

SAMPLE NUMBER:	067012			067015			067121			067122			067604		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106							1.10 PCI/G		UJ						
CESIUM-137							0.20 PCI/G		UJ						
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
1,2-DICHLOROBENZENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
1,3-DICHLOROBENZENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
1,4-DICHLOROBENZENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2,4,5-TRICHLOROPHENOL	2100.00 UG/KG		U	2300.00 UG/KG		U				4000.00 UG/KG		U	2200.00 UG/KG		U
2,4,6-TRICHLOROPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2,4-DICHLOROPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2,4-DIMETHYLPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2,4-DINITROPHENOL	2100.00 UG/KG		UJ	2300.00 UG/KG		UJ				4000.00 UG/KG		UJ	2200.00 UG/KG		UJ
2,4-DINITROTOLUENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2,6-DINITROTOLUENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2-CHLORONAPHTHALENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2-CHLOROPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2-METHYLNAPHTHALENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	50.00 UG/KG		J
2-METHYLPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
2-NITROANILINE	2100.00 UG/KG		U	2300.00 UG/KG		U				4000.00 UG/KG		U	2200.00 UG/KG		U
2-NITROPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		UJ
3,3'-DICHLOROBENZIDINE	870.00 UG/KG		U	950.00 UG/KG		U				1600.00 UG/KG		U	930.00 UG/KG		UJ
3-NITROANILINE	2100.00 UG/KG		U	2300.00 UG/KG		U				4000.00 UG/KG		UJ	2200.00 UG/KG		U
4,6-DINITRO-2-METHYLPHENOL	2100.00 UG/KG		UJ	2300.00 UG/KG		UJ				4000.00 UG/KG		U	2200.00 UG/KG		UJ
4-BROMOPHENYL PHENYL ETHER	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
4-METHYLPHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
4-NITROANILINE	2100.00 UG/KG		U	2300.00 UG/KG		U				4000.00 UG/KG		U	2200.00 UG/KG		U
4-NITROPHENOL	2100.00 UG/KG		U	2300.00 UG/KG		U				4000.00 UG/KG		U	2200.00 UG/KG		UJ
ACENAPHTHENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
ACENAPHTHYLENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
ANTHRACENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BENZO(A)ANTHRACENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BENZO(A)PYRENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BENZO(B)FLUORANTHENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BENZO(G,H,I)PERYLENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BENZO(K)FLUORANTHENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BENZOIC ACID	2100.00 UG/KG		UJ	2300.00 UG/KG		UJ				4000.00 UG/KG		U	2200.00 UG/KG		U
BENZYL ALCOHOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
BIS(2-CHLOROISOPROPYL) ETHER	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		UJ	460.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U

000055

5704

SAMPLE NUMBER:	067012			067015			067121			067122			067604		
LAB:	IT			IT						IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BUTYL BENZYL PHTHALATE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
CHRYSENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
DI-N-BUTYL PHTHALATE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
DI-N-OCTYL PHTHALATE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
DIBENZOFURAN	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
DIETHYL PHTHALATE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
DIMETHYL PHTHALATE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
FLUORANTHENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
FLUORENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
HEXACHLOROBENZENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
HEXACHLOROBUTADIENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		UJ
HEXACHLOROETHANE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
ISOPHORONE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
N-NITROSODIPHENYLAMINE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
NAPHTHALENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
NITROBENZENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
P-CHLOROANILINE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
PENTACHLOROPHENOL	2100.00 UG/KG		U	2300.00 UG/KG		U				4000.00 UG/KG		U	2200.00 UG/KG		U
PHENANTHRENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
PHENOL	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
PYRENE	430.00 UG/KG		U	480.00 UG/KG		U				820.00 UG/KG		U	460.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE	51.00 UG/KG		J	96.00 UG/KG		R				6.00 UG/KG		U	18.00 UG/KG		J
1,1,2,2-TETRACHLOROETHANE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
1,1,2-TRICHLOROETHANE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
1,1-DICHLOROETHANE	6.00 UG/KG		UJ	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
1,1-DICHLOROETHENE	6.00 UG/KG		UJ	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
1,2-DICHLOROETHANE	6.00 UG/KG		UJ	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
1,2-DICHLOROETHENE (TOTAL)	6.00 UG/KG		UJ	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
1,2-DICHLOROPROPANE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
2-BUTANONE	13.00 UG/KG		UJ	14.00 UG/KG		UR				12.00 UG/KG		U	14.00 UG/KG		UJ
2-HEXANONE	13.00 UG/KG		UR	14.00 UG/KG		UR				12.00 UG/KG		U	14.00 UG/KG		UJ
4-METHYL-2-PENTANONE	13.00 UG/KG		UR	14.00 UG/KG		UR				12.00 UG/KG		U	7.00 UG/KG		UJ
ACETONE	13.00 UG/KG		U	14.00 UG/KG		R				61.00 UG/KG		U	33.00 UG/KG		UJ
BENZENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
BROMODICHLOROMETHANE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
BROMOFORM	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		UJ	7.00 UG/KG		UJ
BROMOMETHANE	13.00 UG/KG		UJ	14.00 UG/KG		UJ				12.00 UG/KG		U	14.00 UG/KG		UJ
CARBON DISULFIDE	6.00 UG/KG		UJ	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ

000056

SAMPLE NUMBER:	067012			067015			067121			067122			067604		
LAB:	IT			IT						IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CARBON TETRACHLORIDE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
CHLOROBENZENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
CHLOROETHANE	13.00 UG/KG		UJ	14.00 UG/KG		UR				12.00 UG/KG		U	14.00 UG/KG		UJ
CHLOROFORM	6.00 UG/KG		UJ	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
CHLOROMETHANE	13.00 UG/KG		UJ	14.00 UG/KG		UR				12.00 UG/KG		U	14.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
DIBROMOCHLOROMETHANE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
ETHYLBENZENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
METHYLENE CHLORIDE	6.00 UG/KG		U	25.00 UG/KG		UJ				6.00 UG/KG		U	89.00 UG/KG		UJ
STYRENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
TETRACHLOROETHENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
TOLUENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	20.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
TRICHLOROETHENE	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ
VINYL ACETATE	13.00 UG/KG		UR	14.00 UG/KG		UR				12.00 UG/KG		U	14.00 UG/KG		UJ
VINYL CHLORIDE	13.00 UG/KG		UJ	14.00 UG/KG		UR				12.00 UG/KG		U	14.00 UG/KG		UJ
XYLENES, TOTAL	6.00 UG/KG		UR	7.00 UG/KG		UR				6.00 UG/KG		U	7.00 UG/KG		UJ

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	067609	067618	067627	067632	067633
TASK:	20.03.02	20.03.02	20.03.02	20.03.02	20.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1849	1849	1850	1850	1850
DEPTH:	13.5-15	28.5-30	6-7.5	13.5-15	15-16.5
DATE COLLECTED:	22-FEB-92	22-FEB-92	23-FEB-92	23-FEB-92	23-FEB-92
NORTH COORDINATE:	477806.91	477806.91	478126.2	478126.2	478126.2
EAST COORDINATE:	1378975.19	1378975.19	1378962.62	1378962.62	1378962.62
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TOTAL ORGANIC CARBON	186725.00 MG/KG		-	11500.00 MG/KG		-	173349.00 MG/KG		-	56753.00 MG/KG		-	7840.00 MG/KG		-
RADIONUCLIDES															
URANIUM-238				1.76 PCI/G	.33	-									
URANIUM, TOTAL				6.93 MG/KG	3.21	J									
URANIUM-234				1.73 PCI/G	.33	-									
THORIUM-230				1.69 PCI/G	.43	-									
RADIUM-226				0.95 PCI/G	.14	J									
LEAD-210				0.79 PCI/G	.45	J									
URANIUM-235/236				3.30 PCI/G		UJ									
THORIUM-232				0.91 PCI/G	.289	-									
THORIUM, TOTAL				8.21 MG/KG	2.61	-									
RADIUM-228				0.74 PCI/G	.22	J									
THORIUM-228				1.44 PCI/G	.38	-									
PLUTONIUM-239/240				0.60 PCI/G		U									
PLUTONIUM-238				0.60 PCI/G		U									
STRONTIUM-90				0.77 PCI/G	.46	-									
TECHNETIUM-99				1.00 PCI/G		UJ									
RUTHENIUM-106				1.00 PCI/G		UJ									
CESIUM-137				0.20 PCI/G		UJ									
GROSS ALPHA				11.40 PCI/G	6.5	NV									
GROSS BETA				19.70 PCI/G	6.1	NV									
RADIUM-224				1.02 PCI/G	.16	J									
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
1,2-DICHLOROBENZENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
1,3-DICHLOROBENZENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			

000058

SAMPLE NUMBER:	067609			067618			067627			067632			067633		
LAB:	IT						IT			IT					
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,4-DICHLOROBENZENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL	2000.00 UG/KG		U				2000.00 UG/KG		U	1900.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2,4-DICHLOROPHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2,4-DIMETHYLPHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2,4-DINITROPHENOL	2000.00 UG/KG		UJ				2000.00 UG/KG		U	1900.00 UG/KG		U			
2,4-DINITROTOLUENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2,6-DINITROTOLUENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2-CHLORONAPHTHALENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2-CHLOROPHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2-METHYLNAPHTHALENE	79.00 UG/KG		J				89.00 UG/KG		J	66.00 UG/KG		J			
2-METHYLPHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
2-NITROANILINE	2000.00 UG/KG		U				2000.00 UG/KG		U	1900.00 UG/KG		U			
2-NITROPHENOL	420.00 UG/KG		UJ				410.00 UG/KG		UJ	400.00 UG/KG		UJ			
3,3'-DICHLOROBENZIDINE	830.00 UG/KG		UJ				810.00 UG/KG		U	800.00 UG/KG		U			
3-NITROANILINE	2000.00 UG/KG		U				2000.00 UG/KG		U	1900.00 UG/KG		U			
4,6-DINITRO-2-METHYLPHENOL	2000.00 UG/KG		UJ				2000.00 UG/KG		U	1900.00 UG/KG		U			
4-BROMOPHENYL PHENYL ETHER	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		UJ			
4-METHYLPHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
4-NITROANILINE	2000.00 UG/KG		U				2000.00 UG/KG		U	1900.00 UG/KG		U			
4-NITROPHENOL	2000.00 UG/KG		U				2000.00 UG/KG		UJ	1900.00 UG/KG		UJ			
ACENAPHTHENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
ACENAPHTHYLENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
ANTHRACENE	420.00 UG/KG		U				49.00 UG/KG		J	400.00 UG/KG		U			
BENZO(A)ANTHRACENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BENZO(A)PYRENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BENZO(B)FLUORANTHENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BENZO(G,H,I)PERYLENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BENZO(K)FLUORANTHENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BENZOIC ACID	2000.00 UG/KG		UJ				2000.00 UG/KG		U	1900.00 UG/KG		U			
BENZYL ALCOHOL	420.00 UG/KG		UJ				410.00 UG/KG		U	400.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
BUTYL BENZYL PHTHALATE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
CHRYSENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
DI-N-BUTYL PHTHALATE	46.00 UG/KG		J				410.00 UG/KG		U	400.00 UG/KG		U			
DI-N-OCTYL PHTHALATE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
DIBENZO(A,H)ANTHRACENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
DIBENZOFURAN	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
DIETHYL PHTHALATE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
DIMETHYL PHTHALATE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			

000059

5204

SAMPLE NUMBER:	067609			067618			067627			067632			067633		
LAB:	IT						IT			IT					
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
FLUORANTHENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
FLUORENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
HEXACHLOROBENZENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
HEXACHLOROBUTADIENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE	420.00 UG/KG		UJ				410.00 UG/KG		U	400.00 UG/KG		U			
HEXACHLOROETHANE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
ISOPHORONE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE	420.00 UG/KG		UJ				410.00 UG/KG		U	400.00 UG/KG		U			
N-NITROSODIPHENYLAMINE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
NAPHTHALENE	53.00 UG/KG		J				53.00 UG/KG		J	400.00 UG/KG		U			
NITROBENZENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
P-CHLOROANILINE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
PENTACHLOROPHENOL	2000.00 UG/KG		U				2000.00 UG/KG		U	1900.00 UG/KG		U			
PHENANTHRENE	420.00 UG/KG		U				49.00 UG/KG		J	41.00 UG/KG		J			
PHENOL	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
PYRENE	420.00 UG/KG		U				410.00 UG/KG		U	400.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE	700.00 UG/KG		R				69.00 UG/KG		R	37.00 UG/KG		J			
1,1,2,2-TETRACHLOROETHANE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
1,1,2-TRICHLOROETHANE	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
1,1-DICHLOROETHANE	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
1,1-DICHLOROETHENE	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
1,2-DICHLOROETHANE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
1,2-DICHLOROETHENE (TOTAL)	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
1,2-DICHLOROPROPANE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
2-BUTANONE	25.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
2-HEXANONE	12.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
4-METHYL-2-PENTANONE	12.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
ACETONE	12.00 UG/KG		R				2.00 UG/KG		R	12.00 UG/KG		R			
BENZENE	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
BROMODICHLOROMETHANE	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
BROMOFORM	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
BROMOMETHANE	25.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
CARBON DISULFIDE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
CARBON TETRACHLORIDE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
CHLOROBENZENE	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
CHLOROETHANE	25.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
CHLOROFORM	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
CHLOROMETHANE	12.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
CIS-1,3-DICHLOROPROPENE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
DIBROMOCHLOROMETHANE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
ETHYLBENZENE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			

SAMPLE NUMBER:	067609			067618			067627			067632			067633		
LAB:	IT						IT			IT					
SUFFIX/FILTERFLAG:	R-NA			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
METHYLENE CHLORIDE	12.00 UG/KG		R				19.00 UG/KG		R	11.00 UG/KG		R			
STYRENE	6.00 UG/KG		UR				2.00 UG/KG		J	6.00 UG/KG		UR			
TETRACHLOROETHENE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
TOLUENE	5.00 UG/KG		R				38.00 UG/KG		J	110.00 UG/KG		J			
TRANS-1,3-DICHLOROPROPENE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
TRICHLOROETHENE	6.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			
VINYL ACETATE	12.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
VINYL CHLORIDE	25.00 UG/KG		UR				12.00 UG/KG		UR	12.00 UG/KG		UR			
XYLENES, TOTAL	12.00 UG/KG		UR				6.00 UG/KG		UR	6.00 UG/KG		UR			

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116295	116301	116308	116312	116264
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:		IT	ITAS	IT	IT
WELL OR BORING NUMBER:	1994	1994	1994	1994	1994
DEPTH:	22-23.5	26-27.5	32-34	36-37.5	2-3.5
DATE COLLECTED:	13-MAY-93	13-MAY-93	13-MAY-93	13-MAY-93	12-MAY-93
NORTH COORDINATE:	477742.39	477742.39	477742.39	477742.39	477742.39
EAST COORDINATE:	1379200.09	1379200.09	1379200.09	1379200.09	1379200.09
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	RE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TOTAL ORGANIC CARBON							8682.00 MG/KG		-						
INORGANICS															
ALUMINUM				11100.00 MG/KG		-				3780.00 MG/KG		-	9010.00 MG/KG		-
ANTIMONY				1.20 MG/KG		UJ				1.10 MG/KG		UJ	1.30 MG/KG		UJ
ARSENIC				6.80 MG/KG		-				3.00 MG/KG		-	12.10 MG/KG		-
BARIUM				77.50 MG/KG		-				25.40 MG/KG		J	228.00 MG/KG		-
BERYLLIUM				0.48 MG/KG		U				0.42 MG/KG		U	1.40 MG/KG		-
CADMIUM				1.20 MG/KG		U				1.10 MG/KG		U	1.30 MG/KG		U
CALCIUM				10200.00 MG/KG		-				109000.00 MG/KG		-	5840.00 MG/KG		-
CHROMIUM				12.40 MG/KG		-				3.60 MG/KG		J	11.20 MG/KG		-
COBALT				7.50 MG/KG		-				3.00 MG/KG		J	5.60 MG/KG		-
COPPER				13.40 MG/KG		-				7.00 MG/KG		-	31.50 MG/KG		-
CYANIDE				0.13 MG/KG		-				0.11 MG/KG		U	0.84 MG/KG		-
IRON				16100.00 MG/KG		-				8240.00 MG/KG		-	3430.00 MG/KG		-
LEAD				11.60 MG/KG		-				3.30 MG/KG		-	14.40 MG/KG		-
MAGNESIUM				4810.00 MG/KG		-				55900.00 MG/KG		-	715.00 MG/KG		-
MANGANESE				597.00 MG/KG		-				334.00 MG/KG		J	69.80 MG/KG		-
MERCURY				0.11 MG/KG		U				0.09 MG/KG		U	0.17 MG/KG		-
MOLYBDENUM				5.00 MG/KG		-				2.90 MG/KG		J	6.90 MG/KG		-
NICKEL				13.80 MG/KG		-				9.90 MG/KG		-	14.80 MG/KG		-
POTASSIUM				1540.00 MG/KG		-				649.00 MG/KG		-	1230.00 MG/KG		-
SELENIUM				0.43 MG/KG		U				0.42 MG/KG		U	11.10 MG/KG		-
SILICON				1040.00 MG/KG		-				474.00 MG/KG		-	496.00 MG/KG		-
SILVER				4.70 MG/KG		-				2.20 MG/KG		J	2.70 MG/KG		U
SODIUM				82.20 MG/KG		-				183.00 MG/KG		-	174.00 MG/KG		-
THALLIUM				0.43 MG/KG		U				0.42 MG/KG		U	0.53 MG/KG		U
VANADIUM				25.30 MG/KG		-				12.40 MG/KG		J	36.70 MG/KG		-
ZINC				50.20 MG/KG		-				26.10 MG/KG		J	20.90 MG/KG		-

000062

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116295			116301			116308			116312			116264		
LAB:				IT						IT			IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDD				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
4,4'-DDE				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
4,4'-DDT				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
ALDRIN				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
ALPHA-BHC				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
ALPHA-CHLORDANE				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
AROCLOR-1016				41.00 UG/KG		U				35.00 UG/KG		U	45.00 UG/KG		U
AROCLOR-1221				83.00 UG/KG		U				72.00 UG/KG		U	91.00 UG/KG		U
AROCLOR-1232				41.00 UG/KG		U				35.00 UG/KG		U	45.00 UG/KG		U
AROCLOR-1242				41.00 UG/KG		U				35.00 UG/KG		U	45.00 UG/KG		U
AROCLOR-1248				41.00 UG/KG		U				35.00 UG/KG		U	45.00 UG/KG		U
AROCLOR-1254				41.00 UG/KG		U				35.00 UG/KG		U	45.00 UG/KG		U
AROCLOR-1260				41.00 UG/KG		U				35.00 UG/KG		U	45.00 UG/KG		U
BETA-BHC				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
DELTA-BHC				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
DIELDRIN				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
ENDOSULFAN II				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
ENDOSULFAN SULFATE				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
ENDOSULFAN-I				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
ENDRIN				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
ENDRIN ALDEHYDE				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
ENDRIN KETONE				4.10 UG/KG		U				3.50 UG/KG		U	4.50 UG/KG		UJ
GAMMA-BHC (LINDANE)				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
GAMMA-CHLORDANE				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
HEPTACHLOR				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
HEPTACHLOR EPOXIDE				2.10 UG/KG		U				1.80 UG/KG		U	2.30 UG/KG		UJ
METHOXYCHLOR				21.00 UG/KG		U				18.00 UG/KG		U	23.00 UG/KG		UJ
TOXAPHENE				210.00 UG/KG		U				180.00 UG/KG		U	230.00 UG/KG		U
RADIONUCLIDES															
URANIUM-238				20.70 PCI/G	4.61	-				0.47 PCI/G	.129	J	3.86 PCI/G	.887	-
URANIUM, TOTAL				50.70 MG/KG	8.06	-				3.44 MG/KG	3.2	J	12.80 MG/KG	4.14	-
URANIUM-234				17.90 PCI/G	4.01	-				0.50 PCI/G	.136	-	3.95 PCI/G	.908	-
THORIUM-230				5.19 PCI/G	1.2	-				0.89 PCI/G	.248	-	2.95 PCI/G	.736	-
RADIUM-226				3.15 PCI/G	.299	-				0.56 PCI/G	.129	-	2.96 PCI/G	.307	-
URANIUM-235/236				1.05 PCI/G	.319	-				0.10 PCI/G	.0253	UJ	0.16 PCI/G	.79	J
THORIUM-232				1.14 PCI/G	.306	-				0.26 PCI/G	.102	J	2.65 PCI/G	.669	-
THORIUM, TOTAL				10.40 MG/KG	2.8	-				2.41 MG/KG	.93	-	24.10 MG/KG	6.1	-
RADIUM-228				1.80 PCI/G	.288	-				0.50 PCI/G		UJ	2.97 PCI/G	.381	-
THORIUM-228				1.32 PCI/G	.346	-				0.31 PCI/G	.115	J	3.08 PCI/G	.764	-
NEPTUNIUM-237				0.23 PCI/G	.0976	N				0.03 PCI/G		R	1.98 PCI/G	.68	R
PLUTONIUM-239/240				0.20 PCI/G		UJ				0.20 PCI/G	.0294	UJ	0.20 PCI/G		UJ
PLUTONIUM-238				0.20 PCI/G	.0526	UJ				0.20 PCI/G	.0595	UJ	0.20 PCI/G	.056	UJ
STRONTIUM-90				0.50 PCI/G		UJ				0.50 PCI/G		UJ	0.50 PCI/G		UJ

000063

5704

SAMPLE NUMBER:	116295			116301			116308			116312			116264		
LAB:				IT/RSL						IT/RSL			IT/RSL		
SUFFIX/FILTERFLAG:	-			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
TECHNETIUM-99				1.00 PCI/G		UJ				1.00 PCI/G		UJ	1.00 PCI/G		UJ
RUTHENIUM-106				1.00 PCI/G		UJ				1.00 PCI/G		UJ	1.00 PCI/G		UJ
CESIUM-137				0.20 PCI/G		UJ				0.20 PCI/G		UJ	0.95 PCI/G		UJ
GROSS ALPHA				71.40 PCI/G	19.8	J				12.80 PCI/G	5.31	J	43.60 PCI/G	14	J
GROSS BETA				66.90 PCI/G	14.9	J				12.90 PCI/G	3.72	J	39.40 PCI/G	9.6	J
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
1,2-DICHLOROBENZENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
1,3-DICHLOROBENZENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
1,4-DICHLOROBENZENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2,4,5-TRICHLOROPHENOL				1000.00 UG/KG		U				860.00 UG/KG		U	1100.00 UG/KG		U
2,4,6-TRICHLOROPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2,4-DICHLOROPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2,4-DIMETHYLPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2,4-DINITROPHENOL				1000.00 UG/KG		UJ				860.00 UG/KG		UJ	1100.00 UG/KG		UJ
2,4-DINITROTOLUENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2,6-DINITROTOLUENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2-CHLORONAPHTHALENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2-CHLOROPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2-METHYLNAPHTHALENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2-METHYLPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
2-NITROANILINE				1000.00 UG/KG		U				860.00 UG/KG		U	1100.00 UG/KG		U
2-NITROPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
3,3'-DICHLOROBENZIDINE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
3-NITROANILINE				1000.00 UG/KG		U				860.00 UG/KG		U	1100.00 UG/KG		U
4,6-DINITRO-2-METHYLPHENOL				1000.00 UG/KG		U				860.00 UG/KG		U	1100.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
4-METHYLPHENOL				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
4-NITROANILINE				1000.00 UG/KG		U				860.00 UG/KG		U	1100.00 UG/KG		U
4-NITROPHENOL				1000.00 UG/KG		U				860.00 UG/KG		U	1100.00 UG/KG		U
ACENAPHTHENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
ACENAPHTHYLENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
ANTHRACENE				410.00 UG/KG		U				350.00 UG/KG		U	49.00 UG/KG		J
BENZO(A)ANTHRACENE				410.00 UG/KG		U				350.00 UG/KG		U	130.00 UG/KG		J
BENZO(A)PYRENE				410.00 UG/KG		U				350.00 UG/KG		U	98.00 UG/KG		J
BENZO(B)FLUORANTHENE				410.00 UG/KG		U				350.00 UG/KG		U	140.00 UG/KG		J
BENZO(G,H,I)PERYLENE				410.00 UG/KG		U				350.00 UG/KG		U	59.00 UG/KG		J
BENZO(K)FLUORANTHENE				410.00 UG/KG		U				350.00 UG/KG		U	190.00 UG/KG		J
BIS(2-CHLOROETHOXY)METHANE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
BIS(2-CHLOROISOPROPYL) ETHER				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U

000064

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116295			116301			116308			116312			116264		
LAB:				IT-KNOX						IT-KNOX			IT-KNOX		
SUFFIX/FILTERFLAG:	-			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-ETHYLHEXYL)PHTHALATE				990.00 UG/KG		-				48.00 UG/KG		J	500.00 UG/KG		-
BUTYL BENZYL PHTHALATE				41.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
CARBAZOLE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
CHRYSENE				410.00 UG/KG		U				350.00 UG/KG		U	150.00 UG/KG		J
DI-N-BUTYL PHTHALATE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
DI-N-OCTYL PHTHALATE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
DIBENZOFURAN				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
DIETHYL PHTHALATE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
DIMETHYL PHTHALATE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
FLUORANTHENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
FLUORENE				410.00 UG/KG		U				350.00 UG/KG		U	340.00 UG/KG		J
HEXACHLOROBENZENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
HEXACHLOROBUTADIENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
HEXACHLOROETHANE				410.00 UG/KG		UJ				350.00 UG/KG		UJ	460.00 UG/KG		UJ
INDENO(1,2,3-CD)PYRENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
ISOPHORONE				410.00 UG/KG		U				350.00 UG/KG		U	63.00 UG/KG		J
N-NITROSO-DI-N-PROPYLAMINE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
N-NITROSODIPHENYLAMINE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
NAPHTHALENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
NITROBENZENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
P-CHLOROANILINE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
PENTACHLOROPHENOL				1000.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
PHENANTHRENE				410.00 UG/KG		U				860.00 UG/KG		U	1100.00 UG/KG		U
PHENOL				410.00 UG/KG		U				350.00 UG/KG		U	280.00 UG/KG		J
PYRENE				410.00 UG/KG		U				350.00 UG/KG		U	460.00 UG/KG		U
										350.00 UG/KG		U	260.00 UG/KG		J
VOLATILES															
1,1,1-TRICHLOROETHANE				5.00 UG/KG		J				11.00 UG/KG		U	18.00 UG/KG		J
1,1,2,2-TETRACHLOROETHANE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
1,1,2-TRICHLOROETHANE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
1,1-DICHLOROETHANE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		U
1,1-DICHLOROETHENE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
1,2-DICHLOROETHANE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
1,2-DICHLOROPROPANE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
2-BUTANONE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
2-HEXANONE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
4-METHYL-2-PENTANONE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
ACETONE				3.00 UG/KG		J				12.00 UG/KG		-	12.00 UG/KG		J
BENZENE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
BROMODICHLOROMETHANE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
BROMOFORM				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ

000065

5704

SAMPLE NUMBER:	116295			116301			116308			116312			116264		
LAB:				IT						IT			IT		
SUFFIX/FILTERFLAG:	-			RE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOMETHANE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
CARBON DISULFIDE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
CARBON TETRACHLORIDE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
CHLOROBENZENE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
CHLOROETHANE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
CHLOROFORM				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
CHLOROMETHANE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
DIBROMOCHLOROMETHANE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
ETHYLBENZENE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
METHYLENE CHLORIDE				66.00 UG/KG		-				53.00 UG/KG		-	54.00 UG/KG		J
STYRENE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
TETRACHLOROETHENE				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ
TOLUENE				97.00 UG/KG		J				4.00 UG/KG		J	4.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
TRICHLOROETHENE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
VINYL ACETATE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		UJ
VINYL CHLORIDE				12.00 UG/KG		U				11.00 UG/KG		U	14.00 UG/KG		U
XYLENES, TOTAL				12.00 UG/KG		UJ				11.00 UG/KG		U	14.00 UG/KG		UJ

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116283	116090	116392	116114	116172
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	IT-KNOX	IT		IT-KNOX
WELL OR BORING NUMBER:	1994	1995	1995	1995	1995
DEPTH:	14-15.5	8-9	8-9.5	24-25.5	30-31.5
DATE COLLECTED:	12-MAY-93	01-MAY-93	07-JUN-93	01-MAY-93	02-MAY-93
NORTH COORDINATE:	477742.39	477770.18	477770.18	477770.18	477770.18
EAST COORDINATE:	1379200.09	1379054.76	1379054.76	1379054.76	1379054.76
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	DL-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	7970.00 MG/KG		-	7030.00 MG/KG		-							12200.00 MG/KG		-
ANTIMONY	5.50 MG/KG		J	1.00 MG/KG		R							0.25 MG/KG		UR
ARSENIC	25.10 MG/KG		-	81.80 MG/KG		J							6.00 MG/KG		J
BARIUM	612.00 MG/KG		-	357.00 MG/KG		-							90.90 MG/KG		-
BERYLLIUM	1.80 MG/KG		-	8.70 MG/KG		-							1.40 MG/KG		-
CADMIUM	1.50 MG/KG		U	0.48 MG/KG		U							1.10 MG/KG		-
CALCIUM	8150.00 MG/KG		-	4260.00 MG/KG		-							9030.00 MG/KG		-
CHROMIUM	10.40 MG/KG		-	7.90 MG/KG		-							16.60 MG/KG		-
COBALT	7.30 MG/KG		-	10.60 MG/KG		-							10.40 MG/KG		-
COPPER	35.70 MG/KG		-	41.20 MG/KG		-							22.60 MG/KG		-
CYANIDE	0.83 MG/KG		-	0.25 MG/KG		-							0.12 MG/KG		U
IRON	4460.00 MG/KG		-	6180.00 MG/KG		-							24800.00 MG/KG		-
LEAD	14.40 MG/KG		-	11.50 MG/KG		J							25.90 MG/KG		J
MAGNESIUM	889.00 MG/KG		-	512.00 MG/KG		J							3360.00 MG/KG		J
MANGANESE	290.00 MG/KG		-	23.10 MG/KG		-							1200.00 MG/KG		-
MERCURY	0.18 MG/KG		-	0.12 MG/KG		U							0.12 MG/KG		U
MOLYBDENUM	2.90 MG/KG		U	8.00 MG/KG		-							1.40 MG/KG		-
NICKEL	16.90 MG/KG		-	18.60 MG/KG		-							25.20 MG/KG		-
POTASSIUM	1030.00 MG/KG		-	1080.00 MG/KG		J							1310.00 MG/KG		J
SELENIUM	5.10 MG/KG		-	4.10 MG/KG		J							0.24 MG/KG		UJ
SILICON	666.00 MG/KG		-	919.00 MG/KG		-							1080.00 MG/KG		-
SILVER	2.90 MG/KG		U	0.48 MG/KG		U							0.49 MG/KG		-
SODIUM	334.00 MG/KG		-	497.00 MG/KG		J							166.00 MG/KG		J
THALLIUM	0.59 MG/KG		U	2.10 MG/KG		-							0.24 MG/KG		U
VANADIUM	32.10 MG/KG		-	53.20 MG/KG		J							26.20 MG/KG		J
ZINC	17.70 MG/KG		-	18.70 MG/KG		-							66.90 MG/KG		-
PESTICIDES															
4,4'-DDD	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U

000067

5704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116283			116090			116392			116114			116172		
LAB:	IT			IT-KNOX									IT-KNOX		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U
4,4'-DDT	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U
ALDRIN	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
ALPHA-BHC	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
ALPHA-CHLORDANE	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
AROCLOR-1016	49.00 UG/KG		U	42.00 UG/KG		U							41.00 UG/KG		UJ
AROCLOR-1221	99.00 UG/KG		U	86.00 UG/KG		U							83.00 UG/KG		UJ
AROCLOR-1232	49.00 UG/KG		U	42.00 UG/KG		U							41.00 UG/KG		UJ
AROCLOR-1242	49.00 UG/KG		U	42.00 UG/KG		U							41.00 UG/KG		UJ
AROCLOR-1248	49.00 UG/KG		U	42.00 UG/KG		U							41.00 UG/KG		UJ
AROCLOR-1254	49.00 UG/KG		U	42.00 UG/KG		U							41.00 UG/KG		UJ
AROCLOR-1260	49.00 UG/KG		U	42.00 UG/KG		U							41.00 UG/KG		UJ
BETA-BHC	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
DELTA-BHC	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
DIELDRIN	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U
ENDOSULFAN II	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U
ENDOSULFAN SULFATE	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U
ENDOSULFAN-I	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
ENDRIN	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U
ENDRIN ALDEHYDE	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		UJ
ENDRIN KETONE	4.90 UG/KG		UJ	4.20 UG/KG		U							4.10 UG/KG		U
GAMMA-BHC (LINDANE)	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
GAMMA-CHLORDANE	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
HEPTACHLOR	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
HEPTACHLOR EPOXIDE	2.50 UG/KG		UJ	2.20 UG/KG		U							2.10 UG/KG		U
METHOXYCHLOR	25.00 UG/KG		UJ	22.00 UG/KG		U							21.00 UG/KG		U
TOXAPHENE	250.00 UG/KG		U	220.00 UG/KG		U							210.00 UG/KG		UJ
RADIONUCLIDES															
URANIUM-238	1.54 PCI/G	.367	-	2.60 PCI/G	.59	-							0.69 PCI/G	.18	-
URANIUM, TOTAL	13.30 MG/KG	3.71	-	8.61 MG/KG	3.39	-							3.41 MG/KG	2.69	-
URANIUM-234	1.33 PCI/G	.324	-	2.63 PCI/G	.6	-							0.49 PCI/G	.13	J
THORIUM-230	2.91 PCI/G	.726	-	3.26 PCI/G	.92	NV							1.62 PCI/G	.496	J
RADIUM-226	2.80 PCI/G	.289	-	3.18 PCI/G	.31	-							1.01 PCI/G	.15	-
URANIUM-235/236	0.10 PCI/G	.0307	UJ	0.13 PCI/G	.063	J							0.10 PCI/G	.034	UJ
THORIUM-232	2.54 PCI/G	.643	-	2.44 PCI/G	.72	R							0.61 PCI/G	.243	J
THORIUM, TOTAL	23.10 MG/KG	5.9	-	17.70 MG/KG	4.5	J							5.58 MG/KG	2.22	J
RADIUM-228	2.65 PCI/G	.362	-	2.59 PCI/G	.35	-							0.72 PCI/G	.21	-
THORIUM-228	2.62 PCI/G	.662	-	2.26 PCI/G	.56	J							0.83 PCI/G	.302	J
NEPTUNIUM-237	0.82 PCI/G	.35	NV	2.54 PCI/G	.78	R							0.20 PCI/G	.067	UJ
PLUTONIUM-239/240	0.20 PCI/G	0	UJ	1.56 PCI/G	.58	R							0.20 PCI/G	.074	UJ
PLUTONIUM-238	0.20 PCI/G	0	UJ	2.26 PCI/G	.77	R							0.20 PCI/G	.029	UJ
STRONTIUM-90	0.50 PCI/G		UJ	0.50 PCI/G		UJ							0.50 PCI/G		UJ
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ							1.00 PCI/G		UJ

000068

SAMPLE NUMBER:	116283			116090			116392			116114			116172		
LAB:	IT/RSL			IT/RSL									IT/RSL		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ							1.00 PCI/G		UJ
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		UJ							0.20 PCI/G		UJ
GROSS ALPHA	36.70 PCI/G	12.3	J	41.98 PCI/G	13.46	-							10.20 PCI/G	6.54	-
GROSS BETA	35.10 PCI/G	8.53	J	40.86 PCI/G	9.84	-							15.83 PCI/G	5.15	-
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
1,2-DICHLOROBENZENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
1,3-DICHLOROBENZENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
1,4-DICHLOROBENZENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2,4,5-TRICHLOROPHENOL	1200.00 UG/KG		U	1000.00 UG/KG		U							1000.00 UG/KG		U
2,4,6-TRICHLOROPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2,4-DICHLOROPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2,4-DIMETHYLPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2,4-DINITROPHENOL	1200.00 UG/KG		UJ	1000.00 UG/KG		U							1000.00 UG/KG		U
2,4-DINITROTOLUENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2,6-DINITROTOLUENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2-CHLORONAPHTHALENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2-CHLOROPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2-METHYLNAPHTHALENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2-METHYLPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
2-NITROANILINE	1200.00 UG/KG		U	1000.00 UG/KG		U							1000.00 UG/KG		U
2-NITROPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
3,3'-DICHLOROBENZIDINE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
3-NITROANILINE	1200.00 UG/KG		U	1000.00 UG/KG		UJ							1000.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL	1200.00 UG/KG		U	1000.00 UG/KG		U							1000.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
4-METHYLPHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
4-NITROANILINE	1200.00 UG/KG		U	1000.00 UG/KG		U							1000.00 UG/KG		U
4-NITROPHENOL	1200.00 UG/KG		U	1000.00 UG/KG		U							1000.00 UG/KG		U
ACENAPHTHENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
ACENAPHTHYLENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
ANTHRACENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
BENZO(A)ANTHRACENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
BENZO(A)PYRENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
BENZO(B)FLUORANTHENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
BENZO(G,H,I)PERYLENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
BENZO(K)FLUORANTHENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
BENZOIC ACID				2100.00 UG/KG		U							2000.00 UG/KG		U
BENZYL ALCOHOL				430.00 UG/KG		U							410.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U

000069

8704

SAMPLE NUMBER:	116283			116090			116392			116114			116172		
LAB:	IT-KNOX			IT-KNOX									IT-KNOX		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHE	100.00 UG/KG		U	420.00 UG/KG		UJ							410.00 UG/KG		UJ
BIS(2-ETHYLHEXYL)PHTHALATE	860.00 UG/KG		-	1600.00 UG/KG		-							58.00 UG/KG		J
BUTYL BENZYL PHTHALATE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
CARBAZOLE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
CHRYSENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
DI-N-BUTYL PHTHALATE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
DI-N-OCTYL PHTHALATE	500.00 UG/KG		U	420.00 UG/KG		UJ							410.00 UG/KG		UJ
DIBENZO(A,H)ANTHRACENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
DIBENZOFURAN	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
DIETHYL PHTHALATE	500.00 UG/KG		U	420.00 UG/KG		U							180.00 UG/KG		J
DIMETHYL PHTHALATE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
FLUORANTHENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
FLUORENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
HEXACHLOROBENZENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
HEXACHLOROBUTADIENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE	500.00 UG/KG		UJ	420.00 UG/KG		UJ							410.00 UG/KG		UJ
HEXACHLOROETHANE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
ISOPHORONE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
N-NITROSODIPHENYLAMINE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
NAPHTHALENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
NITROBENZENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
P-CHLOROANILINE	500.00 UG/KG		U	420.00 UG/KG		UJ							410.00 UG/KG		UJ
PENTACHLOROPHENOL	1200.00 UG/KG		U	1000.00 UG/KG		U							1000.00 UG/KG		U
PHENANTHRENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
PHENOL	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
PYRENE	500.00 UG/KG		U	420.00 UG/KG		U							410.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE	35.00 UG/KG		J	1600.00 UG/KG		UJ	920.00 UG/KG		J				1.00 UG/KG		J
1,1,2,2-TETRACHLOROETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
1,1,2-TRICHLOROETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
1,1-DICHLOROETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
1,1-DICHLOROETHENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
1,2-DICHLOROETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
1,2-DICHLOROPROPANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
2-BUTANONE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
2-HEXANONE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
4-METHYL-2-PENTANONE	3.00 UG/KG		J	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
ACETONE	29.00 UG/KG		J	1600.00 UG/KG		UJ	10.00 UG/KG		J				15.00 UG/KG		U
BENZENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
BROMODICHLOROMETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U

000070

SAMPLE NUMBER:	116283			116090			116392			116114			116172		
LAB:	IT			IT-KNOX			IT						IT-KNOX		
SUFFIX/FILTERFLAG:	NONE-NA			DL-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
BROMOMETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
CARBON DISULFIDE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
CARBON TETRACHLORIDE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
CHLOROBENZENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
CHLOROETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		UJ
CHLOROFORM	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		U
CHLOROMETHANE	52.00 UG/KG		J	1600.00 UG/KG		UJ	13.00 UG/KG		UJ				12.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
DIBROMOCHLOROMETHANE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
ETHYLBENZENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
METHYLENE CHLORIDE	110.00 UG/KG		J	180.00 UG/KG		J	67.00 UG/KG		J				12.00 UG/KG		U
STYRENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
TETRACHLOROETHENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
TOLUENE	22.00 UG/KG		J	1800.00 UG/KG		J	25.00 UG/KG		J				12.00 UG/KG		U
TRANS-1,3-DICHLOROPROPENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U
TRICHLOROETHENE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	2.00 UG/KG		J				12.00 UG/KG		U
VINYL ACETATE	15.00 UG/KG		UJ				13.00 UG/KG		UR						
VINYL CHLORIDE	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		U				12.00 UG/KG		UJ
XYLENES, TOTAL	15.00 UG/KG		UJ	1600.00 UG/KG		UJ	13.00 UG/KG		UR				12.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116080	112077	112081	112082	112084
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT/MWL	IT-KNOX		IT	IT-KNOX
WELL OR BORING NUMBER:	1995	1996	1996	1996	1996
DEPTH:	2-3.5	8-9.5	12-13	13-13.5	14-15
DATE COLLECTED:	01-MAY-93	29-APR-93	29-APR-93	29-APR-93	29-APR-93
NORTH COORDINATE:	477770.18	477819.85	477819.85	477819.85	477819.85
EAST COORDINATE:	1379054.76	1379114.9	1379114.9	1379114.9	1379114.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	RE-NA	DL-NA	-	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	8470.00 MG/KG		-	4980.00 MG/KG		-							7130.00 MG/KG		-
ANTIMONY	0.33 MG/KG		R	0.82 MG/KG		UJ							0.94 MG/KG		UJ
ARSENIC	9.70 MG/KG		J	14.50 MG/KG		J							26.00 MG/KG		J
BARIUM	95.10 MG/KG		-	639.00 MG/KG		J							727.00 MG/KG		J
BERYLLIUM	1.60 MG/KG		-	3.30 MG/KG		-							4.20 MG/KG		-
CADMIUM	0.47 MG/KG		-	0.71 MG/KG		-							0.68 MG/KG		-
CALCIUM	97100.00 MG/KG		-	3320.00 MG/KG		J							16900.00 MG/KG		J
CHROMIUM	12.10 MG/KG		-	7.30 MG/KG		-							9.50 MG/KG		-
COBALT	6.10 MG/KG		-	8.90 MG/KG		-							11.30 MG/KG		-
COPPER	16.80 MG/KG		-	39.60 MG/KG		-							34.30 MG/KG		-
CYANIDE	0.12 MG/KG		U	0.49 MG/KG		J							0.71 MG/KG		J
IRON	16100.00 MG/KG		-	7840.00 MG/KG		J							12100.00 MG/KG		J
LEAD	14.00 MG/KG		J	9.10 MG/KG		J							11.10 MG/KG		J
MAGNESIUM	16000.00 MG/KG		J	597.00 MG/KG		-							3020.00 MG/KG		-
MANGANESE	358.00 MG/KG		-	89.20 MG/KG		J							201.00 MG/KG		J
MERCURY	0.11 MG/KG		U	0.13 MG/KG		U							0.13 MG/KG		U
MOLYBDENUM	0.72 MG/KG		-	4.70 MG/KG		U							3.90 MG/KG		U
NICKEL	14.80 MG/KG		-	15.90 MG/KG		-							20.00 MG/KG		-
POTASSIUM	872.00 MG/KG		J	1070.00 MG/KG		J							1220.00 MG/KG		J
SELENIUM	0.23 MG/KG		UJ	2.30 MG/KG		J							1.90 MG/KG		J
SILICON	778.00 MG/KG		-	617.00 MG/KG		J							919.00 MG/KG		J
SILVER	0.47 MG/KG		U	0.50 MG/KG		U							0.54 MG/KG		U
SODIUM	149.00 MG/KG		J	297.00 MG/KG		-							382.00 MG/KG		-
THALLIUM	0.23 MG/KG		U	0.57 MG/KG		-							0.73 MG/KG		-
VANADIUM	26.50 MG/KG		J	27.40 MG/KG		J							29.60 MG/KG		J
ZINC	45.60 MG/KG		-	12.90 MG/KG		UJ							20.70 MG/KG		J
PESTICIDES															
4,4'-DDD	3.70 UG/KG		UJ	4.30 UG/KG		UJ							5.00 UG/KG		U

000072

SAMPLE NUMBER:	116080			112077			112081			112082			112084		
LAB:	IT-KNOX			IT-KNOX									IT-KNOX		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	3.70 UG/KG		UJ	4.30 UG/KG		UJ							5.00 UG/KG		U
4,4'-DDT	3.70 UG/KG		UJ	4.30 UG/KG		UJ							5.00 UG/KG		U
ALDRIN	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
ALPHA-BHC	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
ALPHA-CHLORDANE	3.30 UG/KG		J	2.20 UG/KG		U							2.60 UG/KG		U
AROCLOR-1016	37.00 UG/KG		UJ	43.00 UG/KG		U							50.00 UG/KG		U
AROCLOR-1221	75.00 UG/KG		UJ	86.00 UG/KG		U							100.00 UG/KG		U
AROCLOR-1232	37.00 UG/KG		UJ	43.00 UG/KG		U							50.00 UG/KG		U
AROCLOR-1242	37.00 UG/KG		UJ	43.00 UG/KG		U							50.00 UG/KG		U
AROCLOR-1248	37.00 UG/KG		UJ	43.00 UG/KG		U							50.00 UG/KG		U
AROCLOR-1254	120.00 UG/KG		J	43.00 UG/KG		U							50.00 UG/KG		U
AROCLOR-1260	37.00 UG/KG		UJ	43.00 UG/KG		U							50.00 UG/KG		U
BETA-BHC	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
DELTA-BHC	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
DIELDRIN	3.70 UG/KG		UJ	4.30 UG/KG		UJ							5.00 UG/KG		U
ENDOSULFAN II	3.70 UG/KG		UJ	4.30 UG/KG		UJ							5.00 UG/KG		U
ENDOSULFAN SULFATE	3.70 UG/KG		UJ	4.30 UG/KG		UJ							5.00 UG/KG		U
ENDOSULFAN-I	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
ENDRIN	3.70 UG/KG		UJ	4.30 UG/KG		UJ							5.00 UG/KG		U
ENDRIN ALDEHYDE	3.70 UG/KG		UJ	4.30 UG/KG		U							5.00 UG/KG		U
ENDRIN KETONE	3.70 UG/KG		UJ	4.30 UG/KG		U							5.00 UG/KG		U
GAMMA-BHC (LINDANE)	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
GAMMA-CHLORDANE	1.90 UG/KG		UJ	2.20 UG/KG		U							2.60 UG/KG		U
HEPTACHLOR	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
HEPTACHLOR EPOXIDE	1.90 UG/KG		UJ	2.20 UG/KG		UJ							2.60 UG/KG		U
METHOXYCHLOR	19.00 UG/KG		UJ	22.00 UG/KG		UJ							26.00 UG/KG		UJ
TOXAPHENE	190.00 UG/KG		UJ	220.00 UG/KG		U							260.00 UG/KG		U
RADIONUCLIDES															
URANIUM-238	62.70 PCI/G	14.1	-	9.90 PCI/G	2.2	J				2.84 PCI/G	.66	J			
URANIUM, TOTAL	187.00 MG/KG	21	-	38.50 MG/KG	7	-				19.70 MG/KG	4.4	J			
URANIUM-234	61.90 PCI/G	13.9	-	9.48 PCI/G	2.1	J				2.65 PCI/G	.61	J			
THORIUM-230	5.17 PCI/G	1.18	-	8.80 PCI/G	.25	-				4.70 PCI/G	1.22	-			
RADIUM-226	1.71 PCI/G	.23	-	2.78 PCI/G	.31	J				2.54 PCI/G	.28	J			
URANIUM-235/236	2.91 PCI/G	.75	-	0.73 PCI/G	.22	J				0.16 PCI/G	.072	J			
THORIUM-232	2.51 PCI/G	.61	-	1.84 PCI/G	.774	-				2.60 PCI/G	.753	-			
THORIUM, TOTAL	22.90 MG/KG	5.6	-	16.70 MG/KG	7.1	-				23.70 MG/KG	6.9	-			
RADIUM-228	2.72 PCI/G	.39	-	2.36 PCI/G	.37	-				1.96 PCI/G	.32	-			
THORIUM-228	2.61 PCI/G	.64	-	2.24 PCI/G	.89	-				2.65 PCI/G	.76	-			
NEPTUNIUM-237	0.50 PCI/G	.166	N	0.48 PCI/G	.218	N				0.27 PCI/G	.156	N			
PLUTONIUM-239/240	0.20 PCI/G	.06	UJ	0.20 PCI/G	.1	UJ				0.20 PCI/G	.114	UJ			
PLUTONIUM-238	0.22 PCI/G	.093	J	0.20 PCI/G	.13	UJ				0.31 PCI/G	.169	J			
STRONTIUM-90	0.50 PCI/G	.3	UJ	0.50 PCI/G		UJ				0.50 PCI/G		UJ			
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ				1.00 PCI/G		UJ			

000073

5204

SAMPLE NUMBER:	116080			112077			112081			112082			112084		
LAB:	IT/RSL			IT						IT					
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ				1.00 PCI/G		UJ			
CESIUM-137	0.20 PCI/G	.076	UJ	0.20 PCI/G		UJ				0.20 PCI/G		UJ			
GROSS ALPHA	159.91 PCI/G	37.43	-	46.60 PCI/G	14.2	J				27.20 PCI/G	10.6	J			
GROSS BETA	118.04 PCI/G	24.91	-	31.00 PCI/G	7.8	J				30.70 PCI/G	8	J			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	370.00 UG/KG		U	430.00 UG/KG		UJ							500.00 UG/KG		UJ
1,2-DICHLOROBENZENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
1,3-DICHLOROBENZENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
1,4-DICHLOROBENZENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2,4,5-TRICHLOROPHENOL	890.00 UG/KG		U	1000.00 UG/KG		U							1200.00 UG/KG		U
2,4,6-TRICHLOROPHENOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2,4-DICHLOROPHENOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2,4-DIMETHYLPHENOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2,4-DINITROPHENOL	890.00 UG/KG		U	1000.00 UG/KG		UJ							1200.00 UG/KG		UJ
2,4-DINITROTOLUENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2,6-DINITROTOLUENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2-CHLORONAPHTHALENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2-CHLOROPHENOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
2-METHYLNAPHTHALENE	370.00 UG/KG		U	74.00 UG/KG		J							500.00 UG/KG		U
2-METHYLPHENOL	370.00 UG/KG		U	430.00 UG/KG		UJ							500.00 UG/KG		UJ
2-NITROANILINE	890.00 UG/KG		U	1000.00 UG/KG		U							1200.00 UG/KG		U
2-NITROPHENOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
3,3'-DICHLOROBENZIDINE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
3-NITROANILINE	890.00 UG/KG		U	1000.00 UG/KG		UJ							1200.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL	890.00 UG/KG		U	1000.00 UG/KG		U							1200.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
4-METHYLPHENOL	370.00 UG/KG		U	430.00 UG/KG		UJ							500.00 UG/KG		UJ
4-NITROANILINE	890.00 UG/KG		U	1000.00 UG/KG		UR							1200.00 UG/KG		UR
4-NITROPHENOL	890.00 UG/KG		U	1000.00 UG/KG		U							1200.00 UG/KG		U
ACENAPHTHENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
ACENAPHTHYLENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
ANTHRACENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
BENZO(A)ANTHRACENE	39.00 UG/KG		J	430.00 UG/KG		U							500.00 UG/KG		U
BENZO(A)PYRENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
BENZO(B)FLUORANTHENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
BENZO(G,H,I)PERYLENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
BENZO(K)FLUORANTHENE	43.00 UG/KG		J	430.00 UG/KG		UJ							500.00 UG/KG		UJ
BENZOIC ACID	1800.00 UG/KG		U	2100.00 UG/KG		U							2400.00 UG/KG		U
BENZYL ALCOHOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U

000074

SAMPLE NUMBER:	116080			112077			112081			112082			112084		
LAB:	IT-KNOX			IT-KNOX									IT-KNOX		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHE	370.00 UG/KG		U	430.00 UG/KG		UJ							500.00 UG/KG		UJ
BIS(2-ETHYLHEXYL)PHTHALATE	2600.00 UG/KG		-	260.00 UG/KG		J							2800.00 UG/KG		-
BUTYL BENZYL PHTHALATE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
CARBAZOLE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
CHRYSENE	48.00 UG/KG		J	430.00 UG/KG		U							500.00 UG/KG		U
DI-N-BUTYL PHTHALATE	370.00 UG/KG		U	110.00 UG/KG		J							500.00 UG/KG		U
DI-N-OCTYL PHTHALATE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
DIBENZOFURAN	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
DIETHYL PHTHALATE	370.00 UG/KG		U	430.00 UG/KG		UJ							500.00 UG/KG		UJ
DIMETHYL PHTHALATE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
FLUORANTHENE	99.00 UG/KG		J	430.00 UG/KG		U							500.00 UG/KG		U
FLUORENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
HEXACHLOROBENZENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
HEXACHLOROBUTADIENE	370.00 UG/KG		U	430.00 UG/KG		UR							500.00 UG/KG		UR
HEXACHLOROCYCLOPENTADIENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
HEXACHLOROETHANE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
ISOPHORONE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
N-NITROSODIPHENYLAMINE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
NAPHTHALENE	370.00 UG/KG		U	81.00 UG/KG		J							500.00 UG/KG		U
NITROBENZENE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
P-CHLOROANILINE	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
PENTACHLOROPHENOL	890.00 UG/KG		U	1000.00 UG/KG		U							1200.00 UG/KG		U
PHENANTHRENE	56.00 UG/KG		J	60.00 UG/KG		J							500.00 UG/KG		U
PHENOL	370.00 UG/KG		U	430.00 UG/KG		U							500.00 UG/KG		U
PYRENE	96.00 UG/KG		J	430.00 UG/KG		U							500.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE	32.00 UG/KG		J	67.00 UG/KG		U							64.00 UG/KG		UJ
1,1,2,2-TETRACHLOROETHANE	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ
1,1,2-TRICHLOROETHANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
1,1-DICHLOROETHANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
1,1-DICHLOROETHENE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
1,2-DICHLOROETHANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
1,2-DICHLOROETHENE (TOTAL)	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
1,2-DICHLOROPROPANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
2-BUTANONE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
2-HEXANONE	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ
4-METHYL-2-PENTANONE	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ
ACETONE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
BENZENE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
BROMODICHLOROMETHANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ

000075

5704

SAMPLE NUMBER:	116080			112077			112081			112082			112084		
LAB:	IT/MWL			IT-KNOX									IT-KNOX		
SUFFIX/FILTERFLAG:	RE-NA			DL-NA			-			-			DL-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
BROMOMETHANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
CARBON DISULFIDE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
CARBON TETRACHLORIDE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
CHLOROBENZENE	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ
CHLOROETHANE	11.00 UG/KG		UJ	67.00 UG/KG		UJ							64.00 UG/KG		UJ
CHLOROFORM	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
CHLOROMETHANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
DIBROMOCHLOROMETHANE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
ETHYLBENZENE	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ
METHYLENE CHLORIDE	13.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
STYRENE	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ
TETRACHLOROETHENE	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ
TOLUENE	14.00 UG/KG		J	180.00 UG/KG		-							1000.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
TRICHLOROETHENE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
VINYL ACETATE	11.00 UG/KG		UJ												
VINYL CHLORIDE	11.00 UG/KG		UJ	67.00 UG/KG		U							64.00 UG/KG		UJ
XYLENES, TOTAL	11.00 UG/KG		UR	67.00 UG/KG		U							64.00 UG/KG		UJ

000076

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	112087	116070	112073	116177	116192
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT-KNOX	IT	IT/RSL	IT	IT
WELL OR BORING NUMBER:	1996	1996	1996	1997	1997
DEPTH:	16-16.5	20-21.5	2-4	0-1.5	10-11.5
DATE COLLECTED:	29-APR-93	29-APR-93	29-APR-93	05-MAY-93	05-MAY-93
NORTH COORDINATE:	477819.85	477819.85	477819.85	477871.13	477871.13
EAST COORDINATE:	1379114.9	1379114.9	1379114.9	1378960.5	1378960.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM				2260.00 MG/KG		-				12300.00 MG/KG		-	8360.00 MG/KG		-
ANTIMONY				0.21 MG/KG		UR				0.86 MG/KG		UJ	1.00 MG/KG		UJ
ARSENIC				4.80 MG/KG		J				4.70 MG/KG		-	65.70 MG/KG		-
BARIUM				8.00 MG/KG		-				79.00 MG/KG		J	1080.00 MG/KG		J
BERYLLIUM				0.93 MG/KG		-				0.89 MG/KG		-	5.40 MG/KG		-
CADMIUM				0.41 MG/KG		U				0.67 MG/KG		-	0.52 MG/KG		U
CALCIUM				121000.00 MG/KG		-				6620.00 MG/KG		J	5870.00 MG/KG		J
CHROMIUM				4.60 MG/KG		-				17.00 MG/KG		-	10.40 MG/KG		-
COBALT				4.20 MG/KG		-				7.10 MG/KG		-	10.30 MG/KG		-
COPPER				9.30 MG/KG		U				21.40 MG/KG		J	38.60 MG/KG		J
CYANIDE				0.11 MG/KG		U				0.12 MG/KG		U	0.35 MG/KG		-
IRON				6640.00 MG/KG		-				20400.00 MG/KG		J	8090.00 MG/KG		J
LEAD				5.40 MG/KG		J				16.50 MG/KG		J	11.10 MG/KG		J
MAGNESIUM				22300.00 MG/KG		J				4170.00 MG/KG		J	937.00 MG/KG		J
MANGANESE				324.00 MG/KG		-				175.00 MG/KG		J	57.30 MG/KG		J
MERCURY				0.10 MG/KG		U				0.12 MG/KG		U	1.30 MG/KG		-
MOLYBDENUM				1.40 MG/KG		-				1.10 MG/KG		U	3.50 MG/KG		U
NICKEL				8.20 MG/KG		-				18.50 MG/KG		-	17.80 MG/KG		-
POTASSIUM				474.00 MG/KG		J				934.00 MG/KG		J	1500.00 MG/KG		J
SELENIUM				0.20 MG/KG		UJ				0.24 MG/KG		U	2.90 MG/KG		-
SILICON				525.00 MG/KG		-				1030.00 MG/KG		-	568.00 MG/KG		-
SILVER				0.41 MG/KG		U				0.49 MG/KG		U	0.52 MG/KG		U
SODIUM				187.00 MG/KG		J				73.40 MG/KG		-	496.00 MG/KG		-
THALLIUM				0.20 MG/KG		U				0.24 MG/KG		U	0.88 MG/KG		-
VANADIUM				11.30 MG/KG		J				26.90 MG/KG		J	31.70 MG/KG		J
ZINC				23.60 MG/KG		-				63.70 MG/KG		J	11.90 MG/KG		UJ
PESTICIDES															
4,4'-DDD	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ

000027

5704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	112087			116070			112073			116177			116192		
LAB:	IT-KNOX			IT			-			IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA						NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
4,4'-DDT	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
ALDRIN	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
ALPHA-BHC	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
ALPHA-CHLORDANE	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
AROCLOR-1016	44.00 UG/KG		UJ	42.00 UG/KG		UJ				40.00 UG/KG		UJ	44.00 UG/KG		UJ
AROCLOR-1221	90.00 UG/KG		UJ	85.00 UG/KG		UJ				81.00 UG/KG		UJ	89.00 UG/KG		UJ
AROCLOR-1232	44.00 UG/KG		UJ	42.00 UG/KG		UJ				40.00 UG/KG		UJ	44.00 UG/KG		UJ
AROCLOR-1242	44.00 UG/KG		UJ	42.00 UG/KG		UJ				40.00 UG/KG		UJ	44.00 UG/KG		UJ
AROCLOR-1248	44.00 UG/KG		UJ	42.00 UG/KG		UJ				40.00 UG/KG		UJ	44.00 UG/KG		UJ
AROCLOR-1254	44.00 UG/KG		UJ	42.00 UG/KG		UJ				40.00 UG/KG		UJ	44.00 UG/KG		UJ
AROCLOR-1260	44.00 UG/KG		UJ	42.00 UG/KG		UJ				40.00 UG/KG		UJ	44.00 UG/KG		UJ
BETA-BHC	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
DELTA-BHC	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
DIELDRIN	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
ENDOSULFAN II	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
ENDOSULFAN SULFATE	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
ENDOSULFAN-I	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
ENDRIN	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
ENDRIN ALDEHYDE	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
ENDRIN KETONE	4.40 UG/KG		U	4.20 UG/KG		U				4.00 UG/KG		UJ	4.40 UG/KG		UJ
GAMMA-BHC (LINDANE)	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
GAMMA-CHLORDANE	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
HEPTACHLOR	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
HEPTACHLOR EPOXIDE	2.30 UG/KG		U	2.10 UG/KG		U				2.10 UG/KG		UJ	2.30 UG/KG		UJ
METHOXYCHLOR	23.00 UG/KG		UJ	21.00 UG/KG		U				21.00 UG/KG		UJ	23.00 UG/KG		UJ
TOXAPHENE	230.00 UG/KG		UJ	210.00 UG/KG		UJ				210.00 UG/KG		UJ	230.00 UG/KG		UJ
RADIONUCLIDES															
URANIUM-238				0.86 PCI/G	.22	-	14.56 PCI/G	3.14	-	23.70 PCI/G	5	J	4.19 PCI/G	1.02	J
URANIUM, TOTAL				3.62 MG/KG	2.94	J	48.30 MG/KG	6.81	-	69.80 MG/KG	10.7	J	10.90 MG/KG	4.47	J
URANIUM-234				0.71 PCI/G	.19	-	14.55 PCI/G	3.14	-	23.40 PCI/G	5	J	3.91 PCI/G	.96	J
THORIUM-230				2.03 PCI/G	.49	-	4.07 PCI/G	1	-	1.89 PCI/G	.5	J	3.05 PCI/G	.82	J
RADIUM-226				0.87 PCI/G	.14	-	2.86 PCI/G	.3	-	1.30 PCI/G	.17	-	2.85 PCI/G	.31	-
URANIUM-235/236				0.10 PCI/G	.032	UJ	0.74 PCI/G	.21	-	1.28 PCI/G	.32	J	0.21 PCI/G	.12	J
THORIUM-232				0.29 PCI/G	.11	J	1.90 PCI/G	.51	-	1.00 PCI/G	.3	J	2.34 PCI/G	.65	J
THORIUM, TOTAL				2.61 MG/KG	1	-	17.30 MG/KG	4.7	-	9.20 MG/KG	2.76	J	21.30 MG/KG	5.9	J
RADIUM-228				0.53 PCI/G	.19	-	2.34 PCI/G	.37	-	1.29 PCI/G	.25	-	2.22 PCI/G	.35	-
THORIUM-228				0.41 PCI/G	.14	J	2.09 PCI/G	.56	-	1.16 PCI/G	.34	J	2.36 PCI/G	.66	J
NEPTUNIUM-237				0.20 PCI/G	.06	UJ	0.49 PCI/G	.14	N	0.30 PCI/G	.1	N	0.20 PCI/G	.07	UJ
PLUTONIUM-239/240				0.20 PCI/G		UJ	0.20 PCI/G	.055	UJ	0.20 PCI/G	.04	UJ	0.20 PCI/G	.03	UJ
PLUTONIUM-238				0.20 PCI/G		UJ	0.26 PCI/G	.087	J	0.20 PCI/G	.03	UJ	0.27 PCI/G	.09	J
STRONTIUM-90				0.50 PCI/G		UJ	0.54 PCI/G		UJ	0.50 PCI/G		UJ	0.50 PCI/G		UJ
TECHNETIUM-99				1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ

000078

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	112087			116070			112073			116177			116192		
LAB:				IT/RSL			IT/RSL			IT/RSL			IT/RSL		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106				1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.01 PCI/G		UJ
CESIUM-137				0.20 PCI/G		UJ	0.20 PCI/G	.074	UJ	0.55 PCI/G	.12	J	0.20 PCI/G		UJ
GROSS ALPHA				17.78 PCI/G	8	-	58.63 PCI/G	17.26	-	38.70 PCI/G	12.7	J	42.10 PCI/G	13.6	J
GROSS BETA				12.41 PCI/G	4.91	-	56.47 PCI/G	12.87	-	54.40 PCI/G	12.5	J	30.80 PCI/G	8.1	J
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
1,2-DICHLOROBENZENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
1,3-DICHLOROBENZENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
1,4-DICHLOROBENZENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2,4,5-TRICHLOROPHENOL	1100.00 UG/KG		U	1000.00 UG/KG		UJ				970.00 UG/KG		U	1100.00 UG/KG		U
2,4,6-TRICHLOROPHENOL	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2,4-DICHLOROPHENOL	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2,4-DIMETHYLPHENOL	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2,4-DINITROPHENOL	1100.00 UG/KG		UJ	1000.00 UG/KG		UJ				970.00 UG/KG		UJ	1100.00 UG/KG		UJ
2,4-DINITROTOLUENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2,6-DINITROTOLUENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2-CHLORONAPHTHALENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2-CHLOROPHENOL	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2-METHYLNAPHTHALENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2-METHYLPHENOL	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
2-NITROANILINE	1100.00 UG/KG		U	1000.00 UG/KG		UJ				970.00 UG/KG		U	1100.00 UG/KG		U
2-NITROPHENOL	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
3,3'-DICHLOROBENZIDINE	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		UJ	440.00 UG/KG		UJ
3-NITROANILINE	1100.00 UG/KG		UJ	1000.00 UG/KG		UJ				970.00 UG/KG		UJ	1100.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL	1100.00 UG/KG		U	1000.00 UG/KG		UJ				970.00 UG/KG		U	1100.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
4-METHYLPHENOL	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
4-NITROANILINE	1100.00 UG/KG		UR	1000.00 UG/KG		UJ				970.00 UG/KG		UJ	1100.00 UG/KG		UJ
4-NITROPHENOL	1100.00 UG/KG		U	1000.00 UG/KG		UJ				970.00 UG/KG		U	1100.00 UG/KG		U
ACENAPHTHENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
ACENAPHTHYLENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
ANTHRACENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BENZO(A)ANTHRACENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BENZO(A)PYRENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BENZO(B)FLUORANTHENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BENZO(G,H,I)PERYLENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BENZO(K)FLUORANTHENE	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BENZOIC ACID	2200.00 UG/KG		U	2000.00 UG/KG		UJ									
BENZYL ALCOHOL	450.00 UG/KG		U	420.00 UG/KG		UJ									
BIS(2-CHLOROETHOXY)METHANE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U

000079

5704

SAMPLE NUMBER:	112087			116070			112073			116177			116192		
LAB:	IT-KNOX			IT			-			IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA						NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE	450.00 UG/KG		U	130.00 UG/KG		J				400.00 UG/KG		U	440.00 UG/KG		U
BUTYL BENZYL PHTHALATE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
CARBAZOLE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
CHRYSENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
DI-N-BUTYL PHTHALATE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
DI-N-OCTYL PHTHALATE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
DIBENZOFURAN	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
DIETHYL PHTHALATE	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		U	52.00 UG/KG		J
DIMETHYL PHTHALATE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
FLUORANTHENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
FLUORENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
HEXACHLOROBENZENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
HEXACHLOROBUTADIENE	450.00 UG/KG		UR	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
HEXACHLOROETHANE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
ISOPHORONE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
N-NITROSODIPHENYLAMINE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
NAPHTHALENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
NITROBENZENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
P-CHLOROANILINE	450.00 UG/KG		UJ	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
PENTACHLOROPHENOL	1100.00 UG/KG		U	1000.00 UG/KG		UJ				970.00 UG/KG		U	1100.00 UG/KG		U
PHENANTHRENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
PHENOL	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
PYRENE	450.00 UG/KG		U	420.00 UG/KG		UJ				400.00 UG/KG		U	440.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
1,1,2-TRICHLOROETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
1,1-DICHLOROETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
1,1-DICHLOROETHENE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
1,2-DICHLOROETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
1,2-DICHLOROPROPANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
2-BUTANONE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
2-HEXANONE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
4-METHYL-2-PENTANONE				6.00 UG/KG		J				12.00 UG/KG		U	83.00 UG/KG		U
ACETONE				13.00 UG/KG		UJ				12.00 UG/KG		UJ	83.00 UG/KG		UJ
BENZENE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
BROMODICHLOROMETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U

000080

SAMPLE NUMBER:	112087			116070			112073			116177			116192		
LAB:				IT						IT			IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			-			NONE-NA			DL-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
BROMOMETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
CARBON DISULFIDE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
CARBON TETRACHLORIDE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
CHLOROBENZENE				13.00 UG/KG		UJ				12.00 UG/KG		U	14.00 UG/KG		J
CHLOROETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
CHLOROFORM				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
CHLOROMETHANE				13.00 UG/KG		UJ				12.00 UG/KG		UJ	83.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
DIBROMOCHLOROMETHANE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
ETHYLBENZENE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
METHYLENE CHLORIDE				13.00 UG/KG		U				13.00 UG/KG		U	83.00 UG/KG		U
STYRENE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
TETRACHLOROETHENE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
TOLUENE				78.00 UG/KG		J				14.00 UG/KG		-	370.00 UG/KG		U
TRANS-1,3-DICHLOROPROPENE				13.00 UG/KG		UJ				12.00 UG/KG		UJ	83.00 UG/KG		UJ
TRICHLOROETHENE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
VINYL ACETATE										12.00 UG/KG		U	83.00 UG/KG		U
VINYL CHLORIDE				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U
XYLENES, TOTAL				13.00 UG/KG		UJ				12.00 UG/KG		U	83.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116216	116243	116252	116256	116257
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:		IT	IT	ITAS	IT
WELL OR BORING NUMBER:	1997	1997	1997	1997	1997
DEPTH:	26-27.5	28.5-30	34-35.5	36-38	38-39
DATE COLLECTED:	05-MAY-93	06-MAY-93	07-MAY-93	07-MAY-93	07-MAY-93
NORTH COORDINATE:	477871.13	477871.13	477871.13	477871.13	477871.13
EAST COORDINATE:	1378960.5	1378960.5	1378960.5	1378960.5	1378960.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TOTAL ORGANIC CARBON										14508.00 MG/KG		-			
INORGANICS															
ALUMINUM				6160.00 MG/KG		-	9620.00 MG/KG		-				3530.00 MG/KG		-
ANTIMONY				0.24 MG/KG		UJ	0.41 MG/KG		UJ				0.33 MG/KG		UJ
ARSENIC				4.20 MG/KG		-	5.60 MG/KG		-				5.10 MG/KG		-
BARIUM				56.20 MG/KG		J	64.00 MG/KG		J				21.60 MG/KG		J
BERYLLIUM				0.31 MG/KG		-	0.84 MG/KG		-				0.40 MG/KG		-
CADMIUM				0.51 MG/KG		-	1.20 MG/KG		-				0.44 MG/KG		U
CALCIUM				4700.00 MG/KG		J	95900.00 MG/KG		J				99800.00 MG/KG		J
CHROMIUM				8.00 MG/KG		-	11.40 MG/KG		-				8.20 MG/KG		-
COBALT				9.30 MG/KG		-	6.40 MG/KG		-				3.30 MG/KG		-
COPPER				11.30 MG/KG		J	14.70 MG/KG		J				11.30 MG/KG		J
CYANIDE				0.12 MG/KG		U	0.25 MG/KG		J				0.44 MG/KG		UR
IRON				11900.00 MG/KG		J	17600.00 MG/KG		J				10100.00 MG/KG		J
LEAD				13.80 MG/KG		J	8.90 MG/KG		J				5.40 MG/KG		J
MAGNESIUM				2820.00 MG/KG		J	26800.00 MG/KG		J				48100.00 MG/KG		J
MANGANESE				538.00 MG/KG		J	994.00 MG/KG		J				374.00 MG/KG		J
MERCURY				0.12 MG/KG		U	0.09 MG/KG		UJ				0.10 MG/KG		UJ
MOLYBDENUM				1.40 MG/KG		U	1.40 MG/KG		U				2.30 MG/KG		U
NICKEL				9.40 MG/KG		-	16.80 MG/KG		-				10.60 MG/KG		-
POTASSIUM				678.00 MG/KG		J	1340.00 MG/KG		J				509.00 MG/KG		J
SELENIUM				0.24 MG/KG		U	0.23 MG/KG		UJ				0.22 MG/KG		UJ
SILICON				982.00 MG/KG		-	1000.00 MG/KG		-				637.00 MG/KG		J
SILVER				0.48 MG/KG		U	0.46 MG/KG		U				0.44 MG/KG		U
SODIUM				91.30 MG/KG		-	233.00 MG/KG		-				175.00 MG/KG		-
THALLIUM				0.24 MG/KG		U	0.23 MG/KG		U				0.22 MG/KG		U
VANADIUM				14.80 MG/KG		J	24.70 MG/KG		J				14.00 MG/KG		J
ZINC				30.40 MG/KG		J	45.40 MG/KG		J				28.10 MG/KG		J

000082

SAMPLE NUMBER:	116216			116243			116252			116256			116257		
LAB:				IT			IT						IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDD				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
4,4'-DDE				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		UJ
4,4'-DDT				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
ALDRIN				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
ALPHA-BHC				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
ALPHA-CHLORDANE				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
AROCLOR-1016				40.00 UG/KG		UJ	38.00 UG/KG		UJ				35.00 UG/KG		UJ
AROCLOR-1221				80.00 UG/KG		UJ	78.00 UG/KG		UJ				70.00 UG/KG		UJ
AROCLOR-1232				40.00 UG/KG		UJ	38.00 UG/KG		UJ				35.00 UG/KG		UJ
AROCLOR-1242				40.00 UG/KG		UJ	38.00 UG/KG		UJ				35.00 UG/KG		UJ
AROCLOR-1248				40.00 UG/KG		UJ	38.00 UG/KG		UJ				35.00 UG/KG		UJ
AROCLOR-1254				40.00 UG/KG		UJ	38.00 UG/KG		UJ				35.00 UG/KG		UJ
AROCLOR-1260				40.00 UG/KG		UJ	38.00 UG/KG		UJ				35.00 UG/KG		UJ
BETA-BHC				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
DELTA-BHC				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		UJ
DIELDRIN				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
ENDOSULFAN II				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
ENDOSULFAN SULFATE				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
ENDOSULFAN-I				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
ENDRIN				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
ENDRIN ALDEHYDE				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
ENDRIN KETONE				4.00 UG/KG		UJ	3.80 UG/KG		UJ				3.50 UG/KG		U
GAMMA-BHC (LINDANE)				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
GAMMA-CHLORDANE				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
HEPTACHLOR				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
HEPTACHLOR EPOXIDE				2.00 UG/KG		UJ	2.00 UG/KG		UJ				1.80 UG/KG		U
METHOXYCHLOR				20.00 UG/KG		UJ	20.00 UG/KG		UJ				18.00 UG/KG		U
TOXAPHENE				200.00 UG/KG		UJ	200.00 UG/KG		UJ				180.00 UG/KG		UJ
RADIONUCLIDES															
URANIUM-238				0.98 PCI/G	.24	J	0.91 PCI/G	.22	-				1.44 PCI/G	.34	-
URANIUM, TOTAL				5.62 MG/KG	3.63	J	2.62 MG/KG	2.8	J				5.86 MG/KG	2.99	-
URANIUM-234				0.72 PCI/G	.18	J	0.80 PCI/G	.19	-				1.29 PCI/G	.31	-
THORIUM-230				1.00 PCI/G	.29	J	1.14 PCI/G	.33	-				1.08 PCI/G	.32	-
RADIUM-226				1.26 PCI/G	.19	-	1.22 PCI/G	.16	-				0.78 PCI/G	.14	-
URANIUM-235/236				0.10 PCI/G	.03	UJ	0.10 PCI/G	.03	UJ				0.10 PCI/G	.04	UJ
THORIUM-232				0.85 PCI/G	.25	J	0.87 PCI/G	.2682	-				0.36 PCI/G	.146	J
THORIUM, TOTAL				7.76 MG/KG	2.27	J	7.95 MG/KG	2.44	-				3.28 MG/KG	1.33	J
RADIUM-228				0.91 PCI/G	.25	-	0.99 PCI/G	.23	-				0.50 PCI/G	.19	UJ
THORIUM-228				0.63 PCI/G	.2	J	0.74 PCI/G	.24	-				0.40 PCI/G	.16	J
NEPTUNIUM-237				0.20 PCI/G	.07	UJ	0.26 PCI/G	.08726	N				0.20 PCI/G	.06759	UJ
PLUTONIUM-239/240				0.20 PCI/G	.03	UJ	0.20 PCI/G	.032	UJ				0.20 PCI/G	.026	UJ
PLUTONIUM-238				0.20 PCI/G	.03	UJ	0.20 PCI/G	.0277	UJ				0.20 PCI/G	.026	UJ
STRONTIUM-90				0.50 PCI/G		UJ	0.51 PCI/G		UJ				0.50 PCI/G		UJ

000083

5704

SAMPLE NUMBER:	116216			116243			116252			116256			116257		
LAB:				IT/RSL			IT						IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
TECHNETIUM-99				1.00 PCI/G		UJ	1.00 PCI/G		UJ				1.00 PCI/G		UJ
RUTHENIUM-106				1.00 PCI/G		UJ	1.00 PCI/G		UJ				1.00 PCI/G		UJ
CESIUM-137				0.20 PCI/G		UJ	0.20 PCI/G		UJ				0.20 PCI/G		UJ
GROSS ALPHA				18.30 PCI/G	8.59	J	9.63 PCI/G	6.59	J				9.89 PCI/G	6.33	J
GROSS BETA				32.90 PCI/G	8.52	J	22.70 PCI/G	6.6	J				14.50 PCI/G	5	J
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
1,2-DICHLOROBENZENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
1,3-DICHLOROBENZENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
1,4-DICHLOROBENZENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2,4,5-TRICHLOROPHENOL				960.00 UG/KG		U	920.00 UG/KG		U				840.00 UG/KG		U
2,4,6-TRICHLOROPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2,4-DICHLOROPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2,4-DIMETHYLPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2,4-DINITROPHENOL				960.00 UG/KG		UJ	920.00 UG/KG		UJ				840.00 UG/KG		UJ
2,4-DINITROTOLUENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2,6-DINITROTOLUENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2-CHLORONAPHTHALENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2-CHLOROPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2-METHYLNAPHTHALENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2-METHYLPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
2-NITROANILINE				960.00 UG/KG		U	920.00 UG/KG		U				840.00 UG/KG		U
2-NITROPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
3,3'-DICHLOROBENZIDINE				400.00 UG/KG		UJ	380.00 UG/KG		U				340.00 UG/KG		U
3-NITROANILINE				960.00 UG/KG		UJ	920.00 UG/KG		U				840.00 UG/KG		U
4,6-DINITRO-2-METHYLPHENOL				960.00 UG/KG		U	920.00 UG/KG		U				840.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
4-METHYLPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
4-NITROANILINE				960.00 UG/KG		UJ	920.00 UG/KG		UJ				840.00 UG/KG		UJ
4-NITROPHENOL				960.00 UG/KG		U	920.00 UG/KG		U				840.00 UG/KG		U
ACENAPHTHENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
ACENAPHTHYLENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
ANTHRACENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BENZO(A)ANTHRACENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BENZO(A)PYRENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BENZO(B)FLUORANTHENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BENZO(G,H,I)PERYLENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BENZO(K)FLUORANTHENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BIS(2-CHLOROISOPROPYL) ETHER				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U

SAMPLE NUMBER:	116216			116243			116252			116256			116257		
LAB:				IT			IT						IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-ETHYLHEXYL)PHTHALATE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
BUTYL BENZYL PHTHALATE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
CARBAZOLE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
CHRYSENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
DI-N-BUTYL PHTHALATE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
DI-N-OCTYL PHTHALATE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
DIBENZOFURAN				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
DIETHYL PHTHALATE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
DIMETHYL PHTHALATE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
FLUORANTHENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
FLUORENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
HEXACHLOROBENZENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
HEXACHLOROBUTADIENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
HEXACHLOROETHANE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
ISOPHORONE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
N-NITROSODIPHENYLAMINE				400.00 UG/KG		U	380.00 UG/KG		UJ				340.00 UG/KG		UJ
NAPHTHALENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
NITROBENZENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
P-CHLOROANILINE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
PENTACHLOROPHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
PHENANTHRENE				960.00 UG/KG		U	920.00 UG/KG		U				840.00 UG/KG		U
PHENOL				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
PYRENE				400.00 UG/KG		U	380.00 UG/KG		U				340.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
1,1,2-TRICHLOROETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
1,1-DICHLOROETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
1,1-DICHLOROETHENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
1,2-DICHLOROETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
1,2-DICHLOROPROPANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
2-BUTANONE				12.00 UG/KG		U	3.00 UG/KG		J				11.00 UG/KG		U
2-HEXANONE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
4-METHYL-2-PENTANONE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
ACETONE				11.00 UG/KG		J	16.00 UG/KG		-				11.00 UG/KG		U
BENZENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
BROMODICHLOROMETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
BROMOFORM				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U

000085

5704

SAMPLE NUMBER:	116216			116243			116252			116256			116257		
LAB:				IT			IT						IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOMETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
CARBON DISULFIDE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
CARBON TETRACHLORIDE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
CHLOROBENZENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
CHLOROETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
CHLOROFORM				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
CHLOROMETHANE				12.00 UG/KG		UJ	12.00 UG/KG		U				11.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
DIBROMOCHLOROMETHANE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
ETHYLBENZENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
METHYLENE CHLORIDE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
STYRENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
TETRACHLOROETHENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
TOLUENE				12.00 UG/KG		U	12.00 UG/KG		U				16.00 UG/KG		-
TRANS-1,3-DICHLOROPROPENE				12.00 UG/KG		UJ	12.00 UG/KG		U				11.00 UG/KG		U
TRICHLOROETHENE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
VINYL ACETATE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
VINYL CHLORIDE				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U
XYLENES, TOTAL				12.00 UG/KG		U	12.00 UG/KG		U				11.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	116073	116075	112054	112057	112062
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	ITAS		IT/MWL	IT	ITAS
WELL OR BORING NUMBER:	1998	1998	1998	1998	1998
DEPTH:	0-1.5	0-1.5	8-9.5	10-11.5	13.5-14
DATE COLLECTED:	28-APR-93	28-APR-93	28-APR-93	28-APR-93	28-APR-93
NORTH COORDINATE:	478091.6	478091.6	478091.6	478091.6	478091.6
EAST COORDINATE:	1379032.88	1379032.88	1379032.88	1379032.88	1379032.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TOTAL ORGANIC CARBON	86877.00 MG/KG		J										25460.00 MG/KG		J
INORGANICS															
ALUMINUM							11400.00 MG/KG		-	3020.00 MG/KG		-			
ANTIMONY							0.25 MG/KG		UR	0.24 MG/KG		UR			
ARSENIC							10.90 MG/KG		J	5.00 MG/KG		J			
BARIUM							77.00 MG/KG		-	38.30 MG/KG		-			
BERYLLIUM							1.70 MG/KG		-	1.50 MG/KG		-			
CADMIUM							0.96 MG/KG		-	0.50 MG/KG		-			
CALCIUM							2990.00 MG/KG		-	219000.00 MG/KG		J			
CHROMIUM							16.60 MG/KG		-	6.40 MG/KG		-			
COBALT							12.10 MG/KG		-	3.40 MG/KG		-			
COPPER							23.00 MG/KG		-	8.60 MG/KG		-			
CYANIDE							0.13 MG/KG		U	0.12 MG/KG		U			
IRON							29800.00 MG/KG		-	8750.00 MG/KG		-			
LEAD							13.70 MG/KG		J	7.00 MG/KG		J			
MAGNESIUM							2810.00 MG/KG		J	51400.00 MG/KG		-			
MANGANESE							351.00 MG/KG		-	379.00 MG/KG		-			
MERCURY							0.12 MG/KG		U	0.11 MG/KG		U			
MOLYBDENUM							2.80 MG/KG		-	1.60 MG/KG		-			
NICKEL							23.50 MG/KG		-	8.10 MG/KG		-			
POTASSIUM							906.00 MG/KG		J	678.00 MG/KG		J			
SELENIUM							0.25 MG/KG		UJ	0.24 MG/KG		UJ			
SILICON							904.00 MG/KG		-	526.00 MG/KG		-			
SILVER							0.50 MG/KG		-	0.49 MG/KG		U			
SODIUM							76.30 MG/KG		J	203.00 MG/KG		J			
THALLIUM							0.25 MG/KG		-	0.24 MG/KG		U			
VANADIUM							28.80 MG/KG		J	15.60 MG/KG		J			
ZINC							59.00 MG/KG		-	26.20 MG/KG		-			

SAMPLE NUMBER:	116073			116075			112054			112057			112062		
LAB:							IT			IT					
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDD							3.90 UG/KG		U	4.20 UG/KG		UR			
4,4'-DDE							3.90 UG/KG		U	4.20 UG/KG		UR			
4,4'-DDT							3.90 UG/KG		U	4.20 UG/KG		UR			
ALDRIN							2.00 UG/KG		U	2.20 UG/KG		UR			
ALPHA-BHC							2.00 UG/KG		U	2.20 UG/KG		UR			
ALPHA-CHLORDANE							2.00 UG/KG		U	2.20 UG/KG		UR			
AROCLOR-1016							39.00 UG/KG		UJ	42.00 UG/KG		U			
AROCLOR-1221							80.00 UG/KG		UJ	86.00 UG/KG		U			
AROCLOR-1232							39.00 UG/KG		UJ	42.00 UG/KG		U			
AROCLOR-1242							39.00 UG/KG		UJ	42.00 UG/KG		U			
AROCLOR-1248							39.00 UG/KG		UJ	42.00 UG/KG		U			
AROCLOR-1254							39.00 UG/KG		UJ	42.00 UG/KG		U			
AROCLOR-1260							39.00 UG/KG		UJ	42.00 UG/KG		U			
BETA-BHC							2.00 UG/KG		U	2.20 UG/KG		UR			
DELTA-BHC							2.00 UG/KG		U	2.20 UG/KG		UR			
DIELDRIN							3.90 UG/KG		U	4.20 UG/KG		UR			
ENDOSULFAN II							3.90 UG/KG		U	4.20 UG/KG		UR			
ENDOSULFAN SULFATE							3.90 UG/KG		U	4.20 UG/KG		UR			
ENDOSULFAN-I							2.00 UG/KG		U	2.20 UG/KG		UR			
ENDRIN							3.90 UG/KG		U	4.20 UG/KG		UR			
ENDRIN ALDEHYDE							3.90 UG/KG		U	4.20 UG/KG		UR			
ENDRIN KETONE							3.90 UG/KG		U	4.20 UG/KG		UR			
GAMMA-BHC (LINDANE)							2.00 UG/KG		U	2.20 UG/KG		UR			
GAMMA-CHLORDANE							2.00 UG/KG		U	2.20 UG/KG		UR			
HEPTACHLOR							2.00 UG/KG		U	2.20 UG/KG		UR			
HEPTACHLOR EPOXIDE							2.00 UG/KG		U	2.20 UG/KG		UR			
METHOXYCHLOR							20.00 UG/KG		U	22.00 UG/KG		UR			
TOXAPHENE							200.00 UG/KG		UJ	220.00 UG/KG		U			
RADIONUCLIDES															
URANIUM-238							4.78 PCI/G	1.03	-	9.22 PCI/G	2	-			
URANIUM, TOTAL							14.90 MG/KG	4.01	-	31.70 MG/KG	6.1	-			
URANIUM-234							4.14 PCI/G	.9	-	8.60 PCI/G	1.87	-			
THORIUM-230							2.80 PCI/G	.7	-	4.17 PCI/G	1.02	-			
RADIUM-226							1.46 PCI/G	.19	-	2.07 PCI/G	.25	-			
URANIUM-235/236							0.21 PCI/G	.077	J	0.40 PCI/G	.13	J			
THORIUM-232							0.98 PCI/G	.29	U	1.35 PCI/G	.38	-			
THORIUM, TOTAL							8.92 MG/KG	2.64	-	12.30 MG/KG	3.5	-			
RADIUM-228							1.18 PCI/G	.26	-	1.59 PCI/G	.29	-			
THORIUM-228							1.17 PCI/G	.34	-	1.30 PCI/G	.372	-			
NEPTUNIUM-237							0.20 PCI/G	.077	UJ	0.49 PCI/G	.15	N			
PLUTONIUM-239/240							0.20 PCI/G		UJ	0.20 PCI/G	.052	UJ			
PLUTONIUM-238							0.20 PCI/G		UJ	0.20 PCI/G	.061	UJ			
STRONTIUM-90							0.50 PCI/G		UJ	0.50 PCI/G		UJ			

000088

SAMPLE NUMBER:	116073			116075			112054			112057			112062		
LAB:							IT/RSL			IT/RSL					
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
TECHNETIUM-99							1.00 PCI/G		UJ	1.00 PCI/G		UJ			
RUTHENIUM-106							1.00 PCI/G		UJ	1.00 PCI/G		UJ			
CESIUM-137							0.20 PCI/G	.066	UJ	0.20 PCI/G	.07	UJ			
GROSS ALPHA							19.11 PCI/G	8.41	-	38.34 PCI/G	12.36	-			
GROSS BETA							35.78 PCI/G	8.67	-	33.67 PCI/G	8.41	-			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
1,2-DICHLOROBENZENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
1,3-DICHLOROBENZENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
1,4-DICHLOROBENZENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2,4,5-TRICHLOROPHENOL							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
2,4,6-TRICHLOROPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2,4-DICHLOROPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2,4-DIMETHYLPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2,4-DINITROPHENOL							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
2,4-DINITROTOLUENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2,6-DINITROTOLUENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2-CHLORONAPHTHALENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2-CHLOROPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2-METHYLNAPHTHALENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2-METHYLPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
2-NITROANILINE							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
2-NITROPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
3,3'-DICHLOROBENZIDINE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
3-NITROANILINE							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
4,6-DINITRO-2-METHYLPHENOL							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
4-BROMOPHENYL PHENYL ETHER							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
4-CHLORO-3-METHYLPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
4-CHLOROPHENYLPHENYL ETHER							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
4-METHYLPHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
4-NITROANILINE							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
4-NITROPHENOL							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
ACENAPHTHENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
ACENAPHTHYLENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
ANTHRACENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BENZO(A)ANTHRACENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BENZO(A)PYRENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BENZO(B)FLUORANTHENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BENZO(G,H,I)PERYLENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BENZO(K)FLUORANTHENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BENZOIC ACID							1900.00 UG/KG		UJ	2100.00 UG/KG		UJ			
BENZYL ALCOHOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BIS(2-CHLOROETHOXY)METHANE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			

000089

5704

SAMPLE NUMBER:	116073			116075			112054			112057			112062		
LAB:							IT-KNOX			IT					
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROETHYL)ETHER							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BIS(2-CHLOROISOPROPYL) ETHER							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE							87.00 UG/KG		J	130.00 UG/KG		J			
BUTYL BENZYL PHTHALATE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
CARBAZOLE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
CHRYSENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
DI-N-BUTYL PHTHALATE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
DI-N-OCTYL PHTHALATE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
DIBENZO(A,H)ANTHRACENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
DIBENZOFURAN							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
DIETHYL PHTHALATE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
DIMETHYL PHTHALATE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
FLUORANTHENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
FLUORENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
HEXACHLOROBENZENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
HEXACHLOROBUTADIENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
HEXACHLOROCYCLOPENTADIENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
HEXACHLOROETHANE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
INDENO(1,2,3-CD)PYRENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
ISOPHORONE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
N-NITROSO-DI-N-PROPYLAMINE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
N-NITROSODIPHENYLAMINE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
NAPHTHALENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
NITROBENZENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
P-CHLOROANILINE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
PENTACHLOROPHENOL							960.00 UG/KG		UJ	1000.00 UG/KG		UJ			
PHENANTHRENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
PHENOL							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
PYRENE							390.00 UG/KG		UJ	420.00 UG/KG		UJ			
VOLATILES															
1,1,1-TRICHLOROETHANE							3.00 UG/KG		J	13.00 UG/KG		UJ			
1,1,2,2-TETRACHLOROETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
1,1,2-TRICHLOROETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
1,1-DICHLOROETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
1,1-DICHLOROETHENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
1,2-DICHLOROETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
1,2-DICHLOROETHENE (TOTAL)							12.00 UG/KG		U	13.00 UG/KG		UJ			
1,2-DICHLOROPROPANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
2-BUTANONE							12.00 UG/KG		U	13.00 UG/KG		UJ			
2-HEXANONE							12.00 UG/KG		U	13.00 UG/KG		UJ			
4-METHYL-2-PENTANONE							12.00 UG/KG		U	13.00 UG/KG		UJ			
ACETONE							12.00 UG/KG		U	15.00 UG/KG		UJ			
BENZENE							12.00 UG/KG		U	13.00 UG/KG		UJ			

000090

SAMPLE NUMBER:	116073			116075			112054			112057			112062		
LAB:							IT/MWL			IT					
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMODICHLOROMETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
BROMOFORM							12.00 UG/KG		U	13.00 UG/KG		UJ			
BROMOMETHANE							12.00 UG/KG		U	13.00 UG/KG		U			
CARBON DISULFIDE							12.00 UG/KG		U	13.00 UG/KG		UJ			
CARBON TETRACHLORIDE							12.00 UG/KG		U	13.00 UG/KG		UJ			
CHLOROBENZENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
CHLOROETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
CHLOROFORM							12.00 UG/KG		U	13.00 UG/KG		UJ			
CHLOROMETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
CIS-1,3-DICHLOROPROPENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
DIBROMOCHLOROMETHANE							12.00 UG/KG		U	13.00 UG/KG		UJ			
ETHYLBENZENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
METHYLENE CHLORIDE							12.00 UG/KG		U	13.00 UG/KG		U			
STYRENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
TETRACHLOROETHENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
TOLUENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
TRANS-1,3-DICHLOROPROPENE							12.00 UG/KG		UJ	13.00 UG/KG		UJ			
TRICHLOROETHENE							12.00 UG/KG		U	13.00 UG/KG		UJ			
VINYL ACETATE							12.00 UG/KG		U						
VINYL CHLORIDE							12.00 UG/KG		U	13.00 UG/KG		UJ			
XYLENES, TOTAL							12.00 UG/KG		U	13.00 UG/KG		UJ			

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	112065	112045	116074	112955	SS-24-003
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	CIS
LAB:	IT/MWL	IT		FERMCO	WEMCO
WELL OR BORING NUMBER:	1998	1998	1998	2955	CIS_SYSGEN_105
DEPTH:	17-18.5	2-3.5	2-3.5	50-65	0-.5
DATE COLLECTED:	28-APR-93	28-APR-93	28-APR-93	30-APR-93	
NORTH COORDINATE:	478091.6	478091.6	478091.6	478103.82	478019.41
EAST COORDINATE:	1379032.88	1379032.88	1379032.88	1378953.07	1378899.06
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	-	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	7340.00 MG/KG		-	6440.00 MG/KG		-									
ANTIMONY	0.22 MG/KG		UR	0.91 MG/KG		R									
ARSENIC	3.70 MG/KG		J	65.40 MG/KG		J									
BARIUM	50.90 MG/KG		-	621.00 MG/KG		-									
BERYLLIUM	1.30 MG/KG		-	6.90 MG/KG		-									
CADMIUM	1.20 MG/KG		-	0.76 MG/KG		U									
CALCIUM	95400.00 MG/KG		-	3170.00 MG/KG		-									
CHROMIUM	11.00 MG/KG		-	12.50 MG/KG		-									
COBALT	8.20 MG/KG		-	10.00 MG/KG		-									
COPPER	16.40 MG/KG		-	35.80 MG/KG		-									
CYANIDE	0.11 MG/KG		U	0.55 MG/KG		-									
IRON	17000.00 MG/KG		-	11900.00 MG/KG		-									
LEAD	18.30 MG/KG		J	17.70 MG/KG		J									
MAGNESIUM	27500.00 MG/KG		J	626.00 MG/KG		J									
MANGANESE	436.00 MG/KG		-	79.40 MG/KG		-									
MERCURY	0.10 MG/KG		U	0.19 MG/KG		U									
MOLYBDENUM	1.40 MG/KG		-	5.70 MG/KG		-									
NICKEL	18.90 MG/KG		-	16.90 MG/KG		-									
POTASSIUM	1440.00 MG/KG		J	694.00 MG/KG		J									
SELENIUM	0.22 MG/KG		UJ	5.40 MG/KG		J									
SILICON	577.00 MG/KG		-	892.00 MG/KG		-									
SILVER	0.43 MG/KG		U	0.76 MG/KG		-									
SODIUM	190.00 MG/KG		J	222.00 MG/KG		J									
THALLIUM	0.22 MG/KG		U	3.60 MG/KG		-									
VANADIUM	17.70 MG/KG		J	49.10 MG/KG		J									
ZINC	39.40 MG/KG		-	19.60 MG/KG		-									
PESTICIDES															
4,4'-DDD	3.60 UG/KG		U	5.10 UG/KG		U									

000092

SAMPLE NUMBER:	112065			112045			116074			112955			SS-24-003		
LAB:	IT-KNOX			IT											
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	3.60 UG/KG		U	5.10 UG/KG		U									
4,4'-DDT	3.60 UG/KG		U	5.10 UG/KG		U									
ALDRIN	1.90 UG/KG		U	2.60 UG/KG		U									
ALPHA-BHC	1.90 UG/KG		U	2.60 UG/KG		U									
ALPHA-CHLORDANE	1.90 UG/KG		U	2.60 UG/KG		U									
AROCLOR-1016	36.00 UG/KG		UJ	51.00 UG/KG		U									
AROCLOR-1221	73.00 UG/KG		UJ	100.00 UG/KG		U									
AROCLOR-1232	36.00 UG/KG		UJ	51.00 UG/KG		U									
AROCLOR-1242	36.00 UG/KG		UJ	51.00 UG/KG		U									
AROCLOR-1248	36.00 UG/KG		UJ	51.00 UG/KG		U									
AROCLOR-1254	36.00 UG/KG		UJ	51.00 UG/KG		U									
AROCLOR-1260	36.00 UG/KG		UJ	51.00 UG/KG		U									
BETA-BHC	1.90 UG/KG		U	2.60 UG/KG		U									
DELTA-BHC	1.90 UG/KG		U	2.60 UG/KG		U									
DIELDRIN	3.60 UG/KG		U	5.10 UG/KG		U									
ENDOSULFAN II	3.60 UG/KG		U	5.10 UG/KG		U									
ENDOSULFAN SULFATE	3.60 UG/KG		U	5.10 UG/KG		U									
ENDOSULFAN-I	1.90 UG/KG		U	2.60 UG/KG		U									
ENDRIN	3.60 UG/KG		U	5.10 UG/KG		U									
ENDRIN ALDEHYDE	3.60 UG/KG		U	5.10 UG/KG		U									
ENDRIN KETONE	3.60 UG/KG		U	5.10 UG/KG		U									
GAMMA-BHC (LINDANE)	1.90 UG/KG		U	2.60 UG/KG		U									
GAMMA-CHLORDANE	1.90 UG/KG		U	2.60 UG/KG		U									
HEPTACHLOR	1.90 UG/KG		U	2.60 UG/KG		U									
HEPTACHLOR EPOXIDE	1.90 UG/KG		U	2.60 UG/KG		U									
METHOXYCHLOR	19.00 UG/KG		U	26.00 UG/KG		U									
TOXAPHENE	190.00 UG/KG		UJ	260.00 UG/KG		U									
RADIONUCLIDES															
URANIUM-238	0.85 PCI/G	.21	-	4.46 PCI/G	1	-							7.70 PCI/G	3.4	NV
URANIUM, TOTAL	4.39 MG/KG	2.89	-	14.30 MG/KG	3.7	-				11.00 MG/KG		UNV	22.95 MG/KG	3.4	NV
URANIUM-234	0.77 PCI/G	.2	-	4.23 PCI/G	.95	-									
THORIUM-230	0.87 PCI/G	.3	J	6.16 PCI/G	2.2	R									
RADIUM-226	0.79 PCI/G	.15	-	3.44 PCI/G	.33	-							1.90 PCI/G	.6	NV
URANIUM-235/236	0.10 PCI/G	.03	UJ	0.19 PCI/G	.078	J									
THORIUM-232	0.73 PCI/G	.27	J	2.67 PCI/G	1.19	R							2.10 PCI/G	.6	NV
THORIUM, TOTAL	6.67 MG/KG	2.42	J	24.40 MG/KG	10.2	R							19.15 PCI/G	.6	NV
RADIUM-228	0.73 PCI/G	.22	-	2.51 PCI/G	.34	-									
THORIUM-228	0.54 PCI/G	.22	J	2.82 PCI/G	1.18	R									
NEPTUNIUM-237	0.20 PCI/G	.071	UJ	0.20 PCI/G	.06	UJ									
PLUTONIUM-239/240	0.20 PCI/G		UJ	0.20 PCI/G	.048	UJ									
PLUTONIUM-238	0.20 PCI/G	.043	UJ	0.20 PCI/G	.06	UJ									
STRONTIUM-90	0.50 PCI/G		UJ	0.50 PCI/G		UJ									
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ									

SAMPLE NUMBER:	112065			112045			116074			112955			SS-24-003		
LAB:	IT/RSL			IT/RSL											
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ							1.00 PCI/G		UNV
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		UJ							0.50 PCI/G	.4	NV
GROSS ALPHA	7.81 PCI/G	5.68	-	40.00 PCI/G	13.07	-									
GROSS BETA	19.40 PCI/G	5.81	-	35.10 PCI/G	8.44	-									
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
1,2-DICHLOROBENZENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
1,3-DICHLOROBENZENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
1,4-DICHLOROBENZENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2,4,5-TRICHLOROPHENOL	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
2,4,6-TRICHLOROPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2,4-DICHLOROPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2,4-DIMETHYLPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2,4-DINITROPHENOL	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
2,4-DINITROTOLUENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2,6-DINITROTOLUENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2-CHLORONAPHTHALENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2-CHLOROPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2-METHYLNAPHTHALENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2-METHYLPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
2-NITROANILINE	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
2-NITROPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
3,3'-DICHLOROBENZIDINE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
3-NITROANILINE	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
4,6-DINITRO-2-METHYLPHENOL	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
4-BROMOPHENYL PHENYL ETHER	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
4-CHLORO-3-METHYLPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
4-CHLOROPHENYLPHENYL ETHER	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
4-METHYLPHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
4-NITROANILINE	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
4-NITROPHENOL	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
ACENAPHTHENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
ACENAPHTHYLENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
ANTHRACENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BENZO(A)ANTHRACENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BENZO(A)PYRENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BENZO(B)FLUORANTHENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BENZO(G,H,I)PERYLENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BENZO(K)FLUORANTHENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BENZOIC ACID	1700.00 UG/KG		UJ	2400.00 UG/KG		UJ									
BENZYL ALCOHOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BIS(2-CHLOROETHOXY)METHANE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BIS(2-CHLOROETHYL)ETHER	360.00 UG/KG		UJ	500.00 UG/KG		UJ									

SAMPLE NUMBER:	112065			112045			116074			112955			SS-24-003		
LAB:	IT			IT											
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	840.00 UG/KG		J	150.00 UG/KG		J									
BUTYL BENZYL PHTHALATE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
CARBAZOLE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
CHRYSENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
DI-N-BUTYL PHTHALATE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
DI-N-OCTYL PHTHALATE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
DIBENZO(A,H)ANTHRACENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
DIBENZOFURAN	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
DIETHYL PHTHALATE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
DIMETHYL PHTHALATE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
FLUORANTHENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
FLUORENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
HEXACHLOROBENZENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
HEXACHLOROBUTADIENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
HEXACHLOROCYCLOPENTADIENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
HEXACHLOROETHANE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
INDENO(1,2,3-CD)PYRENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
ISOPHORONE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
N-NITROSO-DI-N-PROPYLAMINE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
N-NITROSODIPHENYLAMINE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
NAPHTHALENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
NITROBENZENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
P-CHLOROANILINE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
PENTACHLOROPHENOL	870.00 UG/KG		UJ	1200.00 UG/KG		UJ									
PHENANTHRENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
PHENOL	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
PYRENE	360.00 UG/KG		UJ	500.00 UG/KG		UJ									
VOLATILES															
1,1,1-TRICHLOROETHANE	11.00 UG/KG		U	16.00 UG/KG		J									
1,1,2,2-TETRACHLOROETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
1,1,2-TRICHLOROETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
1,1-DICHLOROETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
1,1-DICHLOROETHENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
1,2-DICHLOROETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
1,2-DICHLOROETHENE (TOTAL)	11.00 UG/KG		U	77.00 UG/KG		UJ									
1,2-DICHLOROPROPANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
2-BUTANONE	11.00 UG/KG		U	77.00 UG/KG		UJ									
2-HEXANONE	11.00 UG/KG		U	77.00 UG/KG		UJ									
4-METHYL-2-PENTANONE	11.00 UG/KG		U	77.00 UG/KG		UJ									
ACETONE	11.00 UG/KG		U	77.00 UG/KG		UJ									
BENZENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
BROMODICHLOROMETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									

000095

5704

SAMPLE NUMBER:	112065			112045			116074			112955			SS-24-003		
LAB:	IT/MWL			IT											
SUFFIX/FILTERFLAG:	NONE-NA			DL-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM	11.00 UG/KG		U	77.00 UG/KG		UJ									
BROMOMETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
CARBON DISULFIDE	11.00 UG/KG		U	77.00 UG/KG		UJ									
CARBON TETRACHLORIDE	11.00 UG/KG		U	77.00 UG/KG		UJ									
CHLOROBENZENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
CHLOROETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
CHLOROFORM	11.00 UG/KG		U	77.00 UG/KG		UJ									
CHLOROMETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
CIS-1,3-DICHLOROPROPENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
DIBROMOCHLOROMETHANE	11.00 UG/KG		U	77.00 UG/KG		UJ									
ETHYLBENZENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
METHYLENE CHLORIDE	11.00 UG/KG		U	77.00 UG/KG		UJ									
STYRENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
TETRACHLOROETHENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
TOLUENE	59.00 UG/KG		-	150.00 UG/KG		J									
TRANS-1,3-DICHLOROPROPENE	11.00 UG/KG		UJ	77.00 UG/KG		UJ									
TRICHLOROETHENE	11.00 UG/KG		U	77.00 UG/KG		UJ									
VINYL ACETATE	11.00 UG/KG		U												
VINYL CHLORIDE	11.00 UG/KG		U	77.00 UG/KG		UJ									
XYLENES, TOTAL	11.00 UG/KG		U	77.00 UG/KG		UJ									

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	SS-24-241	SL-24-214	SS-24-213	SL-24-218	SL-24-216
TASK:	CIS	CIS	CIS	CIS	CIS
LAB:	TMA	WEMCO	WEMCO	WEMCO	WEMCO
WELL OR BORING NUMBER:	CIS_SYSGEN_118	CIS_SYSGEN_126	CIS_SYSGEN_126	CIS_SYSGEN_126	CIS_SYSGEN_126
DEPTH:	0-.5	.17-.5	0-.5	1-1.5	.5-1
DATE COLLECTED:					
NORTH COORDINATE:	478068.7	478128.53	478128.53	478128.53	478128.53
EAST COORDINATE:	1378925.42	1378969.07	1378969.07	1378969.07	1378969.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	8593.09 PCI/G	66.307	-	19.80 PCI/G	5.7	NV	20.60 PCI/G	6.2	NV	27.80 PCI/G	6.3	NV	17.30 PCI/G	3.8	NV
URANIUM, TOTAL	26623.18 MG/KG	66.307	-	59.00 MG/KG	5.7	NV	61.39 MG/KG	6.2	NV	82.84 MG/KG	6.3	NV	51.55 MG/KG	3.8	NV
URANIUM-234	11373.30 PCI/G	76.26	-												
THORIUM-230	8.66 PCI/G	.6807	J												
RADIUM-226	20.00 PCI/G		UNV	2.30 PCI/G		UNV	0.60 PCI/G	.5	NV	2.30 PCI/G	.7	NV	1.00 PCI/G	.4	NV
URANIUM-235/236	2189.95 PCI/G	33.48	-												
THORIUM-232	1.95 PCI/G	.3556	J	5.20 PCI/G	.7	NV	0.50 PCI/G	.4	NV	2.20 PCI/G	.8	NV	2.80 PCI/G	.6	NV
THORIUM, TOTAL	17.81 PCI/G	.3556	J	47.42 PCI/G	.7	NV	4.56 PCI/G	.4	NV	20.06 PCI/G	.8	NV	25.54 PCI/G	.6	NV
THORIUM-228	3.52 PCI/G	.4486	J												
NEPTUNIUM-237	0.20 PCI/G		U												
PLUTONIUM-239/240	1.52 PCI/G	.449	NV												
PLUTONIUM-238	0.20 PCI/G	.1324	UNV												
STRONTIUM-90	0.50 PCI/G		U												
TECHNETIUM-99	594.00 PCI/G	51	NV												
RUTHENIUM-106	17.72 PCI/G	8.9058	NV	2.80 PCI/G		UNV	1.00 PCI/G		UNV	11.30 PCI/G		UNV	5.00 PCI/G		UNV
CESIUM-137	1.69 PCI/G	.9153	NV	0.70 PCI/G		UNV	1.40 PCI/G		UNV	1.30 PCI/G		UNV	0.60 PCI/G		UNV

000097

9704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	SL-24-219	SL-24-225	SS-24-224	SL-24-227	SL-24-226
TASK:	CIS	CIS	CIS	CIS	CIS
LAB:	WEMCO	WEMCO	WEMCO	WEMCO	WEMCO
WELL OR BORING NUMBER:	CIS_SYSGEN_126	CIS_SYSGEN_127	CIS_SYSGEN_127	CIS_SYSGEN_127	CIS_SYSGEN_127
DEPTH:	1.5-2	.17-.5	0-.5	1-1.5	.5-1
DATE COLLECTED:					
NORTH COORDINATE:	478128.53	478210.76	478210.76	478210.76	478210.76
EAST COORDINATE:	1378969.07	1378998.33	1378998.33	1378998.33	1378998.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	37.90 PCI/G	6.6	NV	32.80 PCI/G		UNV	17.90 PCI/G		UNV	23.50 PCI/G		UNV	5.20 PCI/G	3.2	NV
URANIUM, TOTAL	112.94 MG/KG	6.6	NV	97.74 MG/KG		NV	53.34 MG/KG		NV	70.03 MG/KG		NV	15.50 MG/KG	3.2	NV
RADIUM-226	2.00 PCI/G	.5	NV	41.30 PCI/G	1.9	NV	33.50 PCI/G	2.1	NV	6.00 PCI/G	.8	NV	23.20 PCI/G	1.5	NV
THORIUM-232	0.50 PCI/G		UNV	2.50 PCI/G		UNV	1.20 PCI/G		UNV	5.70 PCI/G		UNV	2.30 PCI/G	1.6	NV
THORIUM, TOTAL	4.56 PCI/G		NV	22.80 PCI/G		NV	10.94 PCI/G		NV	51.98 PCI/G		NV	20.98 PCI/G	1.6	NV
RUTHENIUM-106	8.30 PCI/G		UNV	21.00 PCI/G		UNV	12.30 PCI/G		UNV	1.00 PCI/G		UNV	6.00 PCI/G		UNV
CESIUM-137	0.40 PCI/G		UNV	1.70 PCI/G		UNV	0.30 PCI/G		UNV	0.20 PCI/G		UNV	1.70 PCI/G		UNV

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	SL-24-186	SS-24-185	SL-24-188	SL-24-187	SL-24-138
TASK:	CIS	CIS	CIS	CIS	CIS
LAB:	WEMCO	WEMCO	TMA	WEMCO	WEMCO
WELL OR BORING NUMBER:	CIS_SYSGEN_49	CIS_SYSGEN_49	CIS_SYSGEN_49	CIS_SYSGEN_49	CIS_SYSGEN_84
DEPTH:	.17-.5	0-.5	1-1.5	.5-1	.17-.5
DATE COLLECTED:					
NORTH COORDINATE:	477876.47	477876.47	477876.47	477876.47	477992.88
EAST COORDINATE:	1379114.23	1379114.23	1379114.23	1379114.23	1378954.35
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	2.50 PCI/G	2.2	NV	7.50 PCI/G	4.6	NV	92.35 PCI/G	1.5647	J	16.30 PCI/G	4.3	NV	37.10 PCI/G	5.7	NV
URANIUM, TOTAL	7.45 MG/KG	2.2	NV	22.35 MG/KG	4.6	NV	277.88 MG/KG	1.5647	J	48.57 MG/KG	4.3	NV	110.56 MG/KG	5.7	NV
THORIUM-230							1.58 PCI/G	.3431	J						
RADIUM-226	1.00 PCI/G		UNV	1.00 PCI/G	.7	NV	2.00 PCI/G		UNV	0.80 PCI/G	.4	NV	2.20 PCI/G		UNV
URANIUM-235/236							5.79 PCI/G	.3919	J						
THORIUM-232	0.90 PCI/G	.4	NV	0.60 PCI/G	.3	NV	2.91 PCI/G	.4763	J	3.80 PCI/G	.8	NV	4.30 PCI/G	.8	NV
THORIUM, TOTAL	8.21 PCI/G	.4	NV	5.47 PCI/G	.3	NV	26.53 PCI/G	.4763	J	34.66 PCI/G	.8	NV	39.22 PCI/G	.8	NV
THORIUM-228							3.55 PCI/G	.5167	J						
NEPTUNIUM-237							0.20 PCI/G		U						
PLUTONIUM-239/240							0.20 PCI/G	0	U						
PLUTONIUM-238							0.20 PCI/G	.0275	U						
STRONTIUM-90							0.50 PCI/G		U						
TECHNETIUM-99							1.20 PCI/G		U						
RUTHENIUM-106	6.50 PCI/G		UNV	12.30 PCI/G		UNV	2.01 PCI/G	2.013	U	3.70 PCI/G		UNV	5.70 PCI/G		UNV
CESIUM-137	0.20 PCI/G		UNV	1.10 PCI/G		UNV	0.36 PCI/G	.234	-	0.60 PCI/G		UNV	0.90 PCI/G		UNV

000099

5704

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	SS-24-137	SL-24-139	111790	111791	111792
TASK:	CIS	CIS	20.03.05	20.03.05	20.03.05
LAB:	TMA	WEMCO	IT/MWL	IT/MWL	IT/MWL
WELL OR BORING NUMBER:	CIS_SYSGEN_84	CIS_SYSGEN_84	IFP-SS-01	IFP-SS-02	IFP-SS-03
DEPTH;	0-.5	.5-1	0-.5	0-.5	0-.5
DATE COLLECTED:			16-APR-93	16-APR-93	16-APR-93
NORTH COORDINATE:	477992.88	477992.88	477700.23	477780.39	477812.34
EAST COORDINATE:	1378954.35	1378954.35	1379288.15	1379109.01	1379045.82
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM							4720.00 MG/KG		-	5450.00 MG/KG		-	1430.00 MG/KG		-
ANTIMONY							1.70 MG/KG		U	1.10 MG/KG		U	0.83 MG/KG		UJ
ARSENIC							33.20 MG/KG		-	5.10 MG/KG		-	1.90 MG/KG		J
BARIUM							105.00 MG/KG		-	46.80 MG/KG		-	7.30 MG/KG		-
BERYLLIUM							2.10 MG/KG		-	0.61 MG/KG		-	0.33 MG/KG		U
CADMIUM							1.70 MG/KG		U	1.10 MG/KG		U	0.83 MG/KG		U
CALCIUM							2730.00 MG/KG		-	84000.00 MG/KG		-	103000.00 MG/KG		-
CHROMIUM							8.30 MG/KG		-	7.40 MG/KG		-	2.50 MG/KG		-
COBALT							10.20 MG/KG		-	4.10 MG/KG		-	2.90 MG/KG		-
COPPER							41.10 MG/KG		-	12.00 MG/KG		-	4.80 MG/KG		-
CYANIDE							0.70 MG/KG		-	0.12 MG/KG		U	0.11 MG/KG		U
IRON							2770.00 MG/KG		-	11600.00 MG/KG		-	5140.00 MG/KG		-
LEAD							31.30 MG/KG		-	10.10 MG/KG		-	3.20 MG/KG		-
MAGNESIUM							741.00 MG/KG		-	21300.00 MG/KG		-	16400.00 MG/KG		-
MANGANESE							38.00 MG/KG		-	358.00 MG/KG		-	331.00 MG/KG		-
MERCURY							0.17 MG/KG		U	0.11 MG/KG		U	0.09 MG/KG		U
MOLYBDENUM							7.20 MG/KG		-	4.50 MG/KG		U	3.30 MG/KG		U
NICKEL							19.70 MG/KG		-	11.20 MG/KG		-	5.80 MG/KG		-
POTASSIUM							1170.00 MG/KG		-	1100.00 MG/KG		-	221.00 MG/KG		-
SELENIUM							8.20 MG/KG		-	0.45 MG/KG		U	0.36 MG/KG		U
SILICON							426.00 MG/KG		-	674.00 MG/KG		-	219.00 MG/KG		-
SILVER							3.30 MG/KG		U	3.30 MG/KG		-	1.70 MG/KG		U
SODIUM							74.50 MG/KG		-	123.00 MG/KG		-	77.00 MG/KG		-
THALLIUM							2.10 MG/KG		U	0.49 MG/KG		U	0.36 MG/KG		U
VANADIUM							32.30 MG/KG		-	15.10 MG/KG		-	4.90 MG/KG		-
ZINC							34.50 MG/KG		-	31.10 MG/KG		-	12.60 MG/KG		-
PESTICIDES															
4,4'-DDD							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U

000100

SAMPLE NUMBER:	SS-24-137			SL-24-139			111790			111791			111792		
LAB:							ITAS			IT			ITAS		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
4,4'-DDT							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
ALDRIN							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
ALPHA-BHC							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
ALPHA-CHLORDANE							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
AROCLOR-1016							56.00 UG/KG		U	39.00 UG/KG		U	35.00 UG/KG		U
AROCLOR-1221							110.00 UG/KG		U	79.00 UG/KG		U	72.00 UG/KG		U
AROCLOR-1232							56.00 UG/KG		U	39.00 UG/KG		U	35.00 UG/KG		U
AROCLOR-1242							56.00 UG/KG		U	39.00 UG/KG		U	35.00 UG/KG		U
AROCLOR-1248							56.00 UG/KG		U	39.00 UG/KG		U	35.00 UG/KG		U
AROCLOR-1254							56.00 UG/KG		U	39.00 UG/KG		U	35.00 UG/KG		U
AROCLOR-1260							56.00 UG/KG		U	39.00 UG/KG		U	35.00 UG/KG		U
BETA-BHC							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
DELTA-BHC							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
DIELDRIN							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
ENDOSULFAN II							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
ENDOSULFAN SULFATE							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
ENDOSULFAN-I							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
ENDRIN							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
ENDRIN ALDEHYDE							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
ENDRIN KETONE							5.60 UG/KG		U	3.90 UG/KG		U	3.50 UG/KG		U
GAMMA-BHC (LINDANE)							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
GAMMA-CHLORDANE							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
HEPTACHLOR							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
HEPTACHLOR EPOXIDE							2.90 UG/KG		U	2.00 UG/KG		U	1.80 UG/KG		U
METHOXYCHLOR							29.00 UG/KG		U	20.00 UG/KG		U	18.00 UG/KG		U
TOXAPHENE							290.00 UG/KG		U	200.00 UG/KG		U	180.00 UG/KG		U
RADIONUCLIDES															
URANIUM-238	215.75 PCI/G	2.6856	NV	25.70 PCI/G	6.4	NV	2.98 PCI/G	.661	-	1.44 PCI/G	.338	-	0.42 PCI/G	.117	J
URANIUM, TOTAL	649.74 MG/KG	2.6856	NV	76.59 MG/KG	6.4	NV	12.30 MG/KG	3.69	-	5.01 MG/KG	2.5	-	0.82 MG/KG	1.96	J
URANIUM-234	254.73 PCI/G	2.9181	NV				3.11 PCI/G	.689	-	1.32 PCI/G	.311	-	0.43 PCI/G	.122	J
THORIUM-230	17.80 PCI/G	3.69	R				2.77 PCI/G	.737	-	1.13 PCI/G	.389	R	0.41 PCI/G	.21	R
RADIUM-226	5.90 PCI/G		UNV	1.20 PCI/G		UNV	2.70 PCI/G	.294	-	0.90 PCI/G	.142	-	0.52 PCI/G	.101	-
URANIUM-235/236	14.63 PCI/G	.6992	NV				0.12 PCI/G	.055	J	0.10 PCI/G	.0413	UJ	0.10 PCI/G	.0277	UJ
THORIUM-232	18.50 PCI/G	3.81	R	3.00 PCI/G	.6	NV	2.33 PCI/G	.633	-	0.69 PCI/G	.274	R	0.33 PCI/G	.172	R
THORIUM, TOTAL	168.72 PCI/G	3.81	R	27.36 PCI/G	.6	NV	21.40 MG/KG	5.82	-	6.31 MG/KG	2.52	R	3.02 MG/KG	1.58	R
RADIUM-228							2.62 PCI/G	.379	-	0.97 PCI/G	.23	-	0.50 PCI/G	.158	UJ
THORIUM-228	13.50 PCI/G	3.63	R				2.71 PCI/G	.722	-	0.56 PCI/G	.247	R	0.40 PCI/G	.193	R
NEPTUNIUM-237	0.20 PCI/G		U				0.59 PCI/G	.276	R	0.07 PCI/G		R	0.20 PCI/G	.0274	UJ
PLUTONIUM-239/240	0.20 PCI/G	0	U				0.18 PCI/G		R	0.20 PCI/G		UJ	0.20 PCI/G		UJ
PLUTONIUM-238	0.20 PCI/G	.1009	U				0.42 PCI/G	.227	R	0.20 PCI/G	.05953	UJ	0.20 PCI/G	.03992	UJ
STRONTIUM-90	0.50 PCI/G		U				1.14 PCI/G	.377	J	0.53 PCI/G	.337	J	0.50 PCI/G		UJ
TECHNETIUM-99	1.80 PCI/G		U				1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ

000101

204

SAMPLE NUMBER:	SS-24-137			SL-24-139			111790			111791			111792		
LAB:	TMA						IT/RSL			IT/RSL			IT/RSL		
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	3.42 PCI/G		U	4.10 PCI/G		UNV	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ
CESIUM-137	1.15 PCI/G	.77	J	0.50 PCI/G		UNV	0.20 PCI/G		UJ	0.20 PCI/G	.064	UJ	0.20 PCI/G		UJ
GROSS ALPHA							37.80 PCI/G	12.5	-	20.10 PCI/G	8.99	-	9.42 PCI/G		UJ
GROSS BETA							30.80 PCI/G	7.88	-	21.80 PCI/G	6.36	-	11.90 PCI/G	4.82	-
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
1,2-DICHLOROBENZENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
1,3-DICHLOROBENZENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
1,4-DICHLOROBENZENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2,4,5-TRICHLOROPHENOL							1400.00 UG/KG		U	950.00 UG/KG		U	870.00 UG/KG		U
2,4,6-TRICHLOROPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2,4-DICHLOROPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2,4-DIMETHYLPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2,4-DINITROPHENOL							1400.00 UG/KG		UJ	950.00 UG/KG		UJ	870.00 UG/KG		UJ
2,4-DINITROTOLUENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2,6-DINITROTOLUENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2-CHLORONAPHTHALENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2-CHLOROPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2-METHYLNAPHTHALENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2-METHYLPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
2-NITROANILINE							1400.00 UG/KG		U	950.00 UG/KG		U	870.00 UG/KG		U
2-NITROPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
3,3'-DICHLOROBENZIDINE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
3-NITROANILINE							1400.00 UG/KG		U	950.00 UG/KG		U	870.00 UG/KG		U
4,6-DINITRO-2-METHYLPHENOL							1400.00 UG/KG		UR	950.00 UG/KG		UR	870.00 UG/KG		UR
4-BROMOPHENYL PHENYL ETHER							560.00 UG/KG		UJ	390.00 UG/KG		UJ	360.00 UG/KG		UJ
4-CHLORO-3-METHYLPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
4-METHYLPHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
4-NITROANILINE							1400.00 UG/KG		UR	950.00 UG/KG		UR	870.00 UG/KG		UR
4-NITROPHENOL							1400.00 UG/KG		U	950.00 UG/KG		U	870.00 UG/KG		U
ACENAPHTHENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
ACENAPHTHYLENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
ANTHRACENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BENZO(A)ANTHRACENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BENZO(A)PYRENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BENZO(B)FLUORANTHENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BENZO(G,H,I)PERYLENE							560.00 UG/KG		UJ	390.00 UG/KG		UJ	360.00 UG/KG		U
BENZO(K)FLUORANTHENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BENZOIC ACID							2700.00 UG/KG		UJ	1900.00 UG/KG		UJ	1700.00 UG/KG		UJ
BENZYL ALCOHOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U

000102

SAMPLE NUMBER:	SS-24-137			SL-24-139			111790			111791			111792		
LAB:							ITAS			IT			ITAS		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER							560.00 UG/KG		UJ	390.00 UG/KG		UJ	360.00 UG/KG		UJ
BIS(2-ETHYLHEXYL)PHTHALATE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
BUTYL BENZYL PHTHALATE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
CARBAZOLE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
CHRYSENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
DI-N-BUTYL PHTHALATE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
DI-N-OCTYL PHTHALATE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
DIBENZOFURAN							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
DIETHYL PHTHALATE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
DIMETHYL PHTHALATE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
FLUORANTHENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
FLUORENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
HEXACHLOROBENZENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
HEXACHLOROBUTADIENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE							560.00 UG/KG		UJ	390.00 UG/KG		UJ	360.00 UG/KG		UJ
HEXACHLOROETHANE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
ISOPHORONE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE							560.00 UG/KG		UJ	390.00 UG/KG		UJ	360.00 UG/KG		UJ
N-NITROSODIPHENYLAMINE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
NAPHTHALENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
NITROBENZENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
P-CHLOROANILINE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
PENTACHLOROPHENOL							1400.00 UG/KG		UJ	950.00 UG/KG		UJ	870.00 UG/KG		UJ
PHENANTHRENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
PHENOL							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
PYRENE							560.00 UG/KG		U	390.00 UG/KG		U	360.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
1,1,2-TRICHLOROETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
1,1-DICHLOROETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
1,1-DICHLOROETHENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
1,2-DICHLOROETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
1,2-DICHLOROPROPANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
2-BUTANONE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
2-HEXANONE							17.00 UG/KG		UJ	11.00 UG/KG		UJ	11.00 UG/KG		UJ
4-METHYL-2-PENTANONE							17.00 UG/KG		UJ	11.00 UG/KG		UJ	11.00 UG/KG		UJ
ACETONE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
BENZENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
BROMODICHLOROMETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U

000103

5704

SAMPLE NUMBER:	SS-24-137			SL-24-139			111790			111791			111792		
LAB:							IT/MWL			IT/MWL			IT/MWL		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
BROMOMETHANE							17.00 UG/KG		UJ	11.00 UG/KG		UJ	11.00 UG/KG		UJ
CARBON DISULFIDE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
CARBON TETRACHLORIDE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
CHLOROBENZENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
CHLOROETHANE							17.00 UG/KG		UJ	11.00 UG/KG		UJ	11.00 UG/KG		UJ
CHLOROFORM							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
CHLOROMETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
DIBROMOCHLOROMETHANE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
ETHYLBENZENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
METHYLENE CHLORIDE							28.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
STYRENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
TETRACHLOROETHENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
TOLUENE							55.00 UG/KG		-	3.00 UG/KG		J	5.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
TRICHLOROETHENE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
VINYL ACETATE							17.00 UG/KG		UJ	11.00 UG/KG		UJ	11.00 UG/KG		UJ
VINYL CHLORIDE							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U
XYLENES, TOTAL							17.00 UG/KG		U	11.00 UG/KG		U	11.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	111793	111794	111795	111796	005017
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	3.4.2
LAB:	IT/MWL	IT/MWL	IT/MWL	IT/MWL	IT
WELL OR BORING NUMBER:	IFP-SS-04	IFP-SS-05	IFP-SS-06	IFP-SS-07	ZONE 3-14
DEPTH:	0-.5	0-.5	0-.5	0-.5	0-.167
DATE COLLECTED:	16-APR-93	16-APR-93	16-APR-93	16-APR-93	02-SEP-87
NORTH COORDINATE:	477839.06	477981.13	478059.99	478165.89	478000
EAST COORDINATE:	1378957.87	1379030.85	1378926.62	1379023.03	1379000
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	8130.00 MG/KG		-	9400.00 MG/KG		-	10100.00 MG/KG		-	8230.00 MG/KG		-			
ANTIMONY	1.30 MG/KG		U	2.20 MG/KG		UJ	1.20 MG/KG		UJ	1.30 MG/KG		UJ			
ARSENIC	5.10 MG/KG		-	5.20 MG/KG		-	6.20 MG/KG		-	4.40 MG/KG		-			
BARIUM	66.80 MG/KG		-	54.50 MG/KG		-	68.00 MG/KG		-	89.50 MG/KG		-			
BERYLLIUM	0.72 MG/KG		-	0.68 MG/KG		-	0.70 MG/KG		-	0.91 MG/KG		-			
CADMIUM	3.10 MG/KG		-	1.20 MG/KG		U	1.20 MG/KG		U	1.30 MG/KG		U			
CALCIUM	82300.00 MG/KG		-	81000.00 MG/KG		-	74000.00 MG/KG		-	142000.00 MG/KG		-			
CHROMIUM	10.40 MG/KG		-	11.70 MG/KG		-	12.90 MG/KG		-	8.80 MG/KG		-			
COBALT	8.50 MG/KG		-	6.50 MG/KG		-	5.70 MG/KG		-	3.30 MG/KG		-			
COPPER	16.40 MG/KG		-	13.60 MG/KG		-	13.70 MG/KG		-	8.30 MG/KG		-			
CYANIDE	0.18 MG/KG		-	0.13 MG/KG		U	0.14 MG/KG		-	0.12 MG/KG		U			
IRON	14400.00 MG/KG		-	17000.00 MG/KG		-	16500.00 MG/KG		-	9710.00 MG/KG		-			
LEAD	18.10 MG/KG		-	18.70 MG/KG		-	19.20 MG/KG		-	21.40 MG/KG		-			
MAGNESIUM	15400.00 MG/KG		-	25900.00 MG/KG		-	38000.00 MG/KG		-	55000.00 MG/KG		-			
MANGANESE	418.00 MG/KG		-	440.00 MG/KG		-	476.00 MG/KG		-	1020.00 MG/KG		-			
MERCURY	0.12 MG/KG		U	0.11 MG/KG		U	0.11 MG/KG		U	0.11 MG/KG		U			
MOLYBDENUM	5.00 MG/KG		U	5.10 MG/KG		-	4.80 MG/KG		-	5.00 MG/KG		U			
NICKEL	16.40 MG/KG		-	17.60 MG/KG		-	15.70 MG/KG		-	8.50 MG/KG		-			
POTASSIUM	1360.00 MG/KG		-	2030.00 MG/KG		-	1820.00 MG/KG		-	1370.00 MG/KG		-			
SELENIUM	0.70 MG/KG		U	0.50 MG/KG		U	0.43 MG/KG		U	0.49 MG/KG		U			
SILICON	449.00 MG/KG		-	1030.00 MG/KG		-	581.00 MG/KG		-	1220.00 MG/KG		-			
SILVER	4.20 MG/KG		-	5.00 MG/KG		-	4.80 MG/KG		-	2.80 MG/KG		-			
SODIUM	94.20 MG/KG		-	155.00 MG/KG		-	139.00 MG/KG		-	223.00 MG/KG		-			
THALLIUM	0.45 MG/KG		U	0.51 MG/KG		U	0.41 MG/KG		U	0.49 MG/KG		U			
VANADIUM	22.10 MG/KG		-	22.20 MG/KG		-	23.20 MG/KG		-	14.90 MG/KG		-			
ZINC	50.60 MG/KG		-	55.10 MG/KG		-	46.40 MG/KG		-	28.50 MG/KG		-			
PESTICIDES															
4,4'-DDD	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	111793			111794			111795			111796			005017		
LAB:	ITAS			ITAS			ITAS			ITAS					
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
4,4'-DDT	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
ALDRIN	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
ALPHA-BHC	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
ALPHA-CHLORDANE	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
AROCLOR-1016	44.00 UG/KG		U	43.00 UG/KG		U	42.00 UG/KG		U	43.00 UG/KG		U			
AROCLOR-1221	89.00 UG/KG		U	87.00 UG/KG		U	85.00 UG/KG		U	87.00 UG/KG		U			
AROCLOR-1232	44.00 UG/KG		U	43.00 UG/KG		U	42.00 UG/KG		U	43.00 UG/KG		U			
AROCLOR-1242	44.00 UG/KG		U	43.00 UG/KG		U	42.00 UG/KG		U	43.00 UG/KG		U			
AROCLOR-1248	44.00 UG/KG		U	43.00 UG/KG		U	42.00 UG/KG		U	43.00 UG/KG		U			
AROCLOR-1254	44.00 UG/KG		U	43.00 UG/KG		U	42.00 UG/KG		U	43.00 UG/KG		U			
AROCLOR-1260	44.00 UG/KG		U	43.00 UG/KG		U	42.00 UG/KG		U	90.00 UG/KG		U			
BETA-BHC	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
DELTA-BHC	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
DIELDRIN	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
ENDOSULFAN II	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
ENDOSULFAN SULFATE	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
ENDOSULFAN-I	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
ENDRIN	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
ENDRIN ALDEHYDE	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
ENDRIN KETONE	4.40 UG/KG		U	4.30 UG/KG		U	4.20 UG/KG		U	4.30 UG/KG		U			
GAMMA-BHC (LINDANE)	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
GAMMA-CHLORDANE	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
HEPTACHLOR	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
HEPTACHLOR EPOXIDE	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U	2.20 UG/KG		U			
METHOXYCHLOR	22.00 UG/KG		U	22.00 UG/KG		U	22.00 UG/KG		U	22.00 UG/KG		U			
TOXAPHENE	220.00 UG/KG		U	220.00 UG/KG		U	220.00 UG/KG		U	220.00 UG/KG		U			
RADIONUCLIDES															
URANIUM-238	6.12 PCI/G	1.3	-	7.56 PCI/G	1.61	-	11.20 PCI/G	2.35	-	10.40 PCI/G	2.39	-	4.90 PCI/G	1	R
URANIUM, TOTAL	19.70 MG/KG	4.48	-	20.40 MG/KG	4.68	-	32.10 MG/KG	4.88	-	31.10 MG/KG	5.93	-	14.88 PCI/G	1	R
URANIUM-234	6.18 PCI/G	1.31	-	7.69 PCI/G	1.64	-	10.60 PCI/G	2.24	-	10.10 PCI/G	2.27	-	5.10 PCI/G	1	R
THORIUM-230	12.10 PCI/G	2.93	R	2.20 PCI/G	.59	-	1.85 PCI/G	.586	R	2.30 PCI/G	.657	R	5.30 PCI/G	1	R
RADIUM-226	1.22 PCI/G	.175	-	1.05 PCI/G	.173	-	1.02 PCI/G	.159	-	1.04 PCI/G	.177	-	1.40 PCI/G	.4	R
URANIUM-235/236	0.28 PCI/G	.0881	J	0.34 PCI/G	.102	-	0.60 PCI/G	.161	-	0.43 PCI/G	.162	J	0.60 PCI/G		R
THORIUM-232	1.07 PCI/G	.354	R	0.84 PCI/G	.274	-	1.03 PCI/G	.379	R	0.89 PCI/G	.315	R	1.80 PCI/G	.5	R
THORIUM, TOTAL	9.84 MG/KG	3.26	R	7.74 MG/KG	2.52	-	9.48 MG/KG	3.49	R	8.18 MG/KG	2.9	R	16.42 PCI/G	.5	R
RADIUM-228	1.20 PCI/G	.243	-	0.83 PCI/G	.246	-	1.48 PCI/G	.272	-	0.76 PCI/G	.241	-	1.00 PCI/G		R
THORIUM-228	1.02 PCI/G	.342	R	0.79 PCI/G	.264	-	0.93 PCI/G	.353	R	0.62 PCI/G	.244	R	0.90 PCI/G	.3	R
NEPTUNIUM-237	0.20 PCI/G	.0691	UJ	0.20 PCI/G	.0305	UJ	0.07 PCI/G		R	0.20 PCI/G	.0291	UJ	0.60 PCI/G		R
PLUTONIUM-239/240	0.20 PCI/G		UJ	0.20 PCI/G	.02102	UJ	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.60 PCI/G		R
PLUTONIUM-238	0.20 PCI/G		UJ	0.20 PCI/G	.03259	UJ	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.60 PCI/G		R
STRONTIUM-90	0.85 PCI/G	.336	J	0.63 PCI/G	.29	J	0.50 PCI/G		UJ	0.77 PCI/G	.29	J	0.50 PCI/G		R
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	9.00 PCI/G		R

FERNALD ANALYTICAL REPORT
SOILS - OU2 - INACTIVE FLYASH PILE

SAMPLE NUMBER:	111793			111794			111795			111796			005017		
LAB:	IT/RSL			IT/RSL			IT/RSL			IT/RSL			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.50 PCI/G		R
CESIUM-137	0.34 PCI/G	.0946	U	0.64 PCI/G	.139	-	0.54 PCI/G	.118	-	0.30 PCI/G	.0982	-	0.70 PCI/G	.2	R
GROSS ALPHA	60.20 PCI/G	17.4	-	25.90 PCI/G	10.1	-	39.20 PCI/G	12.9	-	28.20 PCI/G	10.4	-			
GROSS BETA	36.30 PCI/G	9.06	-	36.30 PCI/G	8.96	-	43.90 PCI/G	10.3	-	32.70 PCI/G	8.17	-			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
1,2-DICHLOROBENZENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
1,3-DICHLOROBENZENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
1,4-DICHLOROBENZENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2,4-DICHLOROPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2,4-DIMETHYLPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2,4-DINITROPHENOL	1000.00 UG/KG		UJ	1000.00 UG/KG		UJ	1000.00 UG/KG		UJ	1000.00 UG/KG		UJ			
2,4-DINITROTOLUENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2,6-DINITROTOLUENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2-CHLORONAPHTHALENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2-CHLOROPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2-METHYLNAPHTHALENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	160.00 UG/KG		J			
2-METHYLPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
2-NITROANILINE	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U			
2-NITROPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
3,3'-DICHLOROBENZIDINE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
3-NITROANILINE	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U			
4,6-DINITRO-2-METHYLPHENOL	1000.00 UG/KG		UR	1000.00 UG/KG		UR	1000.00 UG/KG		UR	1000.00 UG/KG		UR			
4-BROMOPHENYL PHENYL ETHER	430.00 UG/KG		UJ	430.00 UG/KG		UJ	420.00 UG/KG		UJ	430.00 UG/KG		UJ			
4-CHLORO-3-METHYLPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
4-METHYLPHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
4-NITROANILINE	1000.00 UG/KG		UR	1000.00 UG/KG		UR	1000.00 UG/KG		UR	1000.00 UG/KG		UR			
4-NITROPHENOL	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U	1000.00 UG/KG		U			
ACENAPHTHENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	460.00 UG/KG		-			
ACENAPHTHYLENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	1800.00 UG/KG		J			
ANTHRACENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	1700.00 UG/KG		J			
BENZO(A)ANTHRACENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	8900.00 UG/KG		U			
BENZO(A)PYRENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	16000.00 UG/KG		U			
BENZO(B)FLUORANTHENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	17000.00 UG/KG		U			
BENZO(G,H,I)PERYLENE	430.00 UG/KG		UJ	430.00 UG/KG		UJ	420.00 UG/KG		UJ	7200.00 UG/KG		UJ			
BENZO(K)FLUORANTHENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	5700.00 UG/KG		U			
BENZOIC ACID	2100.00 UG/KG		UJ	2100.00 UG/KG		UJ	2000.00 UG/KG		UJ	2100.00 UG/KG		UJ			
BENZYL ALCOHOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			

SAMPLE NUMBER:	111793			111794			111795			111796			005017		
LAB:	ITAS			ITAS			ITAS			ITAS					
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER	430.00 UG/KG		UJ	430.00 UG/KG		UJ	420.00 UG/KG		UJ	430.00 UG/KG		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
BUTYL BENZYL PHTHALATE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
CARBAZOLE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	510.00 UG/KG		-			
CHRYSENE	430.00 UG/KG		U	100.00 UG/KG		U	420.00 UG/KG		U	9000.00 UG/KG		U			
DI-N-BUTYL PHTHALATE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
DI-N-OCTYL PHTHALATE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
DIBENZO(A,H)ANTHRACENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	2200.00 UG/KG		-			
DIBENZOFURAN	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	250.00 UG/KG		J			
DIETHYL PHTHALATE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
DIMETHYL PHTHALATE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
FLUORANTHENE	430.00 UG/KG		U	200.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
FLUORENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	510.00 UG/KG		-			
HEXACHLOROBENZENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
HEXACHLOROBUTADIENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE	430.00 UG/KG		UJ	430.00 UG/KG		UJ	420.00 UG/KG		UJ	430.00 UG/KG		UJ			
HEXACHLOROETHANE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	9300.00 UG/KG		U			
ISOPHORONE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE	430.00 UG/KG		UJ	430.00 UG/KG		UJ	420.00 UG/KG		UJ	430.00 UG/KG		UJ			
N-NITROSODIPHENYLAMINE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
NAPHTHALENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	100.00 UG/KG		J			
NITROBENZENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
P-CHLOROANILINE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
PENTACHLOROPHENOL	1000.00 UG/KG		UJ	1000.00 UG/KG		UJ	1000.00 UG/KG		UJ	1000.00 UG/KG		UJ			
PHENANTHRENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	5700.00 UG/KG		U			
PHENOL	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	430.00 UG/KG		U			
PYRENE	430.00 UG/KG		U	430.00 UG/KG		U	420.00 UG/KG		U	16000.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
1,1,2,2-TETRACHLOROETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
1,1,2-TRICHLOROETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
1,1-DICHLOROETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
1,1-DICHLOROETHENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
1,2-DICHLOROETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
1,2-DICHLOROETHENE (TOTAL)	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
1,2-DICHLOROPROPANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
2-BUTANONE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	3.00 UG/KG		J			
2-HEXANONE	13.00 UG/KG		UJ	13.00 UG/KG		UJ	12.00 UG/KG		UJ	13.00 UG/KG		UJ			
4-METHYL-2-PENTANONE	13.00 UG/KG		UJ	13.00 UG/KG		UJ	12.00 UG/KG		UJ	13.00 UG/KG		UJ			
ACETONE	10.00 UG/KG		J	2.00 UG/KG		J	12.00 UG/KG		U	12.00 UG/KG		J			
BENZENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
BROMODICHLOROMETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			

000408

SAMPLE NUMBER:	111793			111794			111795			111796			005017		
LAB:	IT/MWL			IT/MWL			IT/MWL			IT/MWL					
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
BROMOMETHANE	13.00 UG/KG		UJ	13.00 UG/KG		UJ	12.00 UG/KG		UJ	13.00 UG/KG		UJ			
CARBON DISULFIDE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
CARBON TETRACHLORIDE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
CHLOROBENZENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
CHLOROETHANE	13.00 UG/KG		UJ	13.00 UG/KG		UJ	12.00 UG/KG		UJ	13.00 UG/KG		UJ			
CHLOROFORM	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
CHLOROMETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
CIS-1,3-DICHLOROPROPENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
DIBROMOCHLOROMETHANE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
ETHYLBENZENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
METHYLENE CHLORIDE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
STYRENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
TETRACHLOROETHENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
TOLUENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
TRANS-1,3-DICHLOROPROPENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
TRICHLOROETHENE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
VINYL ACETATE	13.00 UG/KG		UJ	13.00 UG/KG		UJ	12.00 UG/KG		UJ	13.00 UG/KG		UJ			
VINYL CHLORIDE	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			
XYLENES, TOTAL	13.00 UG/KG		U	13.00 UG/KG		U	12.00 UG/KG		U	13.00 UG/KG		U			

OU2 - South Field Area

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	007207	007301	007217	007220	008947
TASK:	3.2	3.2	3.2	3.2	3.2
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1045	1047	1048	1048	2045
DEPTH:	7.5-9	9-10.5	1.5-3	1.5-3	30-31.5
DATE COLLECTED:	07-OCT-87	16-OCT-87	13-OCT-87	13-OCT-87	06-DEC-88
NORTH COORDINATE:	477134.7	478258.45	477477.45	477477.45	477129.91
EAST COORDINATE:	1379751.55	1379062.49	1379877.21	1379877.21	1379760.54
QA TYPE:	NORMAL	NORMAL	NORMAL	DUPLICATE	NORMAL
QC OF:				007217	
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	0.90 PCI/G	.3	-	0.70 PCI/G	.3	J	2.40 PCI/G	.6	J	2.80 PCI/G	.8	J			
URANIUM, TOTAL	2.96 MG/KG	.3	-	2.36 MG/KG	.3	J	7.43 MG/KG	.6	J	8.62 MG/KG	.8	J	150.00 MG/KG	37.9	-
URANIUM-234	1.00 PCI/G	.4	-	0.60 PCI/G		UJ	1.00 PCI/G	.3	J	1.40 PCI/G	.5	J			
THORIUM-230	1.80 PCI/G	.6	-	1.40 PCI/G	.4	-	1.90 PCI/G	.6	-	2.20 PCI/G	.7	-			
RADIUM-226	0.40 PCI/G		UJ	0.70 PCI/G	.1	J	0.90 PCI/G	.1	J	0.50 PCI/G	.1	J			
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ			
THORIUM-232	1.20 PCI/G	.4	-	0.60 PCI/G		U	0.90 PCI/G	.4	-	1.00 PCI/G	.4	-			
THORIUM, TOTAL	10.94 PCI/G	.4	NV	5.47 PCI/G		U	8.21 PCI/G	.4	-	9.12 PCI/G	.4	NV			
RADIUM-228	0.50 PCI/G		R	0.60 PCI/G	.1	J	1.20 PCI/G	.2	J	0.60 PCI/G	.1	J			
THORIUM-228	1.10 PCI/G	.4	-	0.80 PCI/G	.3	-	1.60 PCI/G	.5	-	1.20 PCI/G	.5	-			
NEPTUNIUM-237	0.60 PCI/G		UJ	0.60 PCI/G		U	0.60 PCI/G		UJ	0.60 PCI/G		UJ			
PLUTONIUM-239/240	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U			
PLUTONIUM-238	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U			
STRONTIUM-90	1.20 PCI/G	.3	-	0.50 PCI/G		UJ	0.50 PCI/G		R	0.50 PCI/G		R			
TECHNETIUM-99	2.80 PCI/G		UNV	1.50 PCI/G	.4	-	1.00 PCI/G		UNV	1.00 PCI/G		UNV			
RUTHENIUM-106	1.20 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ			
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.20 PCI/G		UJ			

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	008948	008960	020498	007233	055371
TASK:	3.2	3.2	3.2	3.2	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	2045	2047	2048	21190	21191
DEPTH:	35-36.5	25-26.5	65-66.5	1.5-3	0-.5
DATE COLLECTED:	06-DEC-88	20-DEC-88	30-NOV-88	15-OCT-87	19-MAY-90
NORTH COORDINATE:	477129.91	478263.85	477480.23	477617.13	477071.1
EAST COORDINATE:	1379760.54	1379054.18	1379866.55	1379149.12	1379636.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	0.60 PCI/G		U	0.60 PCI/G		R	0.60 PCI/G		U	11.40 PCI/G	2.1	J	7.00 PCI/G	.93	J
URANIUM, TOTAL	2.00 MG/KG	2	J	2.00 MG/KG	2	UJ	2.00 MG/KG	2	R	34.25 MG/KG	2.1	J	26.40 MG/KG	5	R
URANIUM-234	0.60 PCI/G		U	0.60 PCI/G		R	0.60 PCI/G		U	10.70 PCI/G	2	J	4.64 PCI/G	.66	J
THORIUM-230	0.70 PCI/G	.3	J	1.00 PCI/G	.2	R	0.70 PCI/G	.2	-	0.90 PCI/G	.4	-	5.59 PCI/G	.82	-
RADIUM-226	0.40 PCI/G	.1	J	0.40 PCI/G	.1	J	0.30 PCI/G		R	0.70 PCI/G	.1	J	1.35 PCI/G	.17	R
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		R	0.60 PCI/G		U	0.60 PCI/G		UJ	0.60 PCI/G		UJ
THORIUM-232	0.60 PCI/G	.3	J	0.60 PCI/G		R	0.60 PCI/G		U	0.60 PCI/G	.3	-	1.11 PCI/G	.24	-
THORIUM, TOTAL	5.47 PCI/G	.3	NV	5.47 PCI/G		R	5.47 PCI/G		U	5.47 PCI/G	.3	NV	10.00 MG/KG	2.1	-
RADIUM-228	0.50 PCI/G		UJ	0.50 PCI/G		UJ	0.60 PCI/G		R	0.80 PCI/G	.1	J	0.86 PCI/G	.208	R
THORIUM-228	0.60 PCI/G		UJ	0.60 PCI/G		R	0.60 PCI/G		U	1.10 PCI/G	.5	-	1.01 PCI/G	.22	-
NEPTUNIUM-237	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-239/240	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		U	0.60 PCI/G		UJ
PLUTONIUM-238	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		U	0.60 PCI/G	.304	J
STRONTIUM-90	0.50 PCI/G	.2	U	0.70 PCI/G	.2	-	0.50 PCI/G		U	0.50 PCI/G		R	0.50 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		UNV	1.00 PCI/G		UJ
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		R	1.00 PCI/G		UJ	1.00 PCI/G		R
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.20 PCI/G		R	0.20 PCI/G		UJ	0.25 PCI/G	.081	R

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	055373	055375	055377	055379	055383
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	21191	21191	21191	21191	21191
DEPTH:	1-1.5	2-2.5	3-3.5	4-4.5	6-6.5
DATE COLLECTED:	19-MAY-90	19-MAY-90	19-MAY-90	19-MAY-90	19-MAY-90
NORTH COORDINATE:	477071.1	477071.1	477071.1	477071.1	477071.1
EAST COORDINATE:	1379636.54	1379636.54	1379636.54	1379636.54	1379636.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	2.72 PCI/G	.42	J	1.41 PCI/G	.26	J	1.67 PCI/G	.28	J	1.93 PCI/G	.31	J	2.84 PCI/G	.42	J
URANIUM, TOTAL	12.90 MG/KG	2.8	R	8.15 MG/KG	1.94	R	3.44 MG/KG	1.58	J	6.94 MG/KG	1.65	R	9.42 MG/KG	1.91	J
URANIUM-234	2.64 PCI/G	.41	J	1.29 PCI/G	.24	J	1.24 PCI/G	.23	J	1.73 PCI/G	.29	J	2.29 PCI/G	.35	J
THORIUM-230	3.07 PCI/G	.46	-	0.79 PCI/G	.179	-	0.81 PCI/G	.188	J	1.03 PCI/G	.21	J	1.37 PCI/G	.26	J
RADIUM-226	0.30 PCI/G		R	0.30 PCI/G		R	0.50 PCI/G	.068	J	0.62 PCI/G	.083	R	0.86 PCI/G	.087	J
URANIUM-235/236	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
THORIUM-232	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U
THORIUM, TOTAL	5.00 MG/KG	.93	-	5.00 MG/KG	.88	-	5.00 MG/KG	1.04	-	5.00 MG/KG	.78	-	5.00 MG/KG	1.02	-
RADIUM-228	0.50 PCI/G		R	0.50 PCI/G		R	0.50 PCI/G		UJ	0.50 PCI/G		R	0.50 PCI/G		UJ
THORIUM-228	0.60 PCI/G		U	0.66 PCI/G	.159	-	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U
NEPTUNIUM-237	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-239/240	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-238	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
STRONTIUM-90	0.50 PCI/G		U	0.50 PCI/G		U	1.22 PCI/G	.26	J	0.50 PCI/G		U	0.50 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ
RUTHENIUM-106	1.00 PCI/G		R	1.00 PCI/G		R	1.00 PCI/G		UJ	1.00 PCI/G		R	1.00 PCI/G		UJ
CESIUM-137	0.20 PCI/G		R	0.20 PCI/G		R	0.20 PCI/G		UJ	0.20 PCI/G		R	0.20 PCI/G		UJ

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	055387	055389	055391	055393	055395
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	21191	21191	21191	21191	21191
DEPTH:	8-8.5	9-9.5	10-10.5	11-11.5	12-12.5
DATE COLLECTED:	19-MAY-90	19-MAY-90	19-MAY-90	19-MAY-90	19-MAY-90
NORTH COORDINATE:	477071.1	477071.1	477071.1	477071.1	477071.1
EAST COORDINATE:	1379636.54	1379636.54	1379636.54	1379636.54	1379636.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	1.53 PCI/G	.28	J	1.91 PCI/G	.31	J	1.53 PCI/G	.25	J	1.84 PCI/G	.31	J	1.96 PCI/G	.32	J
URANIUM, TOTAL	7.93 MG/KG	1.75	R	6.55 MG/KG	1.92	J	9.41 MG/KG	2.16	R	5.52 MG/KG	.94	J	9.03 MG/KG	1.96	R
URANIUM-234	1.50 PCI/G	.28	J	1.54 PCI/G	.27	J	1.48 PCI/G	.24	J	1.65 PCI/G	.28	J	1.84 PCI/G	.31	J
THORIUM-230	0.66 PCI/G	.197	J	0.75 PCI/G	.182	J	0.85 PCI/G	.243	J	0.60 PCI/G		U	0.96 PCI/G	.217	J
RADIUM-226	0.49 PCI/G	.075	R	0.61 PCI/G	.081	J	0.53 PCI/G	.087	R	0.41 PCI/G	.065	J	0.30 PCI/G		R
URANIUM-235/236	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
THORIUM-232	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		UJ
THORIUM, TOTAL	5.00 MG/KG	.9	-	5.00 MG/KG		U	5.00 MG/KG	1.27	-	5.00 MG/KG	.82	-	4.67 MG/KG	1.36	J
RADIUM-228	0.50 PCI/G		R	0.50 PCI/G		UJ	0.50 PCI/G		R	0.50 PCI/G		UJ	0.50 PCI/G		R
THORIUM-228	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		UJ
NEPTUNIUM-237	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-239/240	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-238	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
STRONTIUM-90	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ
RUTHENIUM-106	1.00 PCI/G		R	1.00 PCI/G		UJ	1.00 PCI/G		R	1.00 PCI/G		UJ	1.00 PCI/G		R
CESIUM-137	0.20 PCI/G		R	0.20 PCI/G		UJ	0.20 PCI/G		R	0.20 PCI/G		UJ	0.20 PCI/G		R

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	055399	055401	055405	055407	055409
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	21191	21191	21191	21191	21191
DEPTH:	14-14.5	15-15.5	17-17.5	18-18.5	19-19.5
DATE COLLECTED:	19-MAY-90	19-MAY-90	19-MAY-90	19-MAY-90	19-MAY-90
NORTH COORDINATE:	477071.1	477071.1	477071.1	477071.1	477071.1
EAST COORDINATE:	1379636.54	1379636.54	1379636.54	1379636.54	1379636.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	2.60 PCI/G	.38	J	1.80 PCI/G	.31	J	0.85 PCI/G	.178	J	2.74 PCI/G	.45	J	0.60 PCI/G		UJ
URANIUM, TOTAL	6.66 MG/KG	1.95	J	8.60 MG/KG	1.97	R	2.64 MG/KG	1.39	J	6.33 MG/KG	1.62	R	6.76 MG/KG	1.73	R
URANIUM-234	2.27 PCI/G	.34	J	1.63 PCI/G	.29	J	0.95 PCI/G	.191	J	2.30 PCI/G	.4	J	0.60 PCI/G		UJ
THORIUM-230	1.23 PCI/G	.33	J	1.61 PCI/G	.33	J	0.78 PCI/G	.199	J	0.71 PCI/G	.172	J	0.90 PCI/G	.208	J
RADIUM-226	0.51 PCI/G	.079	J	0.30 PCI/G		R	0.54 PCI/G	.069	J	0.59 PCI/G	.086	R	0.30 PCI/G		R
URANIUM-235/236	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
THORIUM-232	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
THORIUM, TOTAL	4.41 MG/KG	1.81	J	4.75 MG/KG	1.52	J	1.68 MG/KG	.89	J	1.76 MG/KG	.81	J	1.94 MG/KG	.89	J
RADIUM-228	0.50 PCI/G		UJ	0.50 PCI/G		R	0.50 PCI/G		UJ	0.50 PCI/G		R	0.50 PCI/G		R
THORIUM-228	0.73 PCI/G	.245	J	0.74 PCI/G	.203	J	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
NEPTUNIUM-237	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-239/240	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-238	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
STRONTIUM-90	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		UJ	0.50 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		R	1.00 PCI/G		UJ	1.00 PCI/G		R	1.00 PCI/G		R
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		R	0.20 PCI/G		UJ	0.20 PCI/G		R	0.20 PCI/G		R

9204

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	032639	032622	032609	032725	010441
TASK:	3.2	3.2	3.2	3.2	3.2
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	2385	2385	3045	3385	4016
DEPTH:	45-46.5	4.5-6	105-106.	80-81.5	50-51.5
DATE COLLECTED:	21-APR-90	20-APR-90	09-MAY-90	13-JUN-90	18-DEC-88
NORTH COORDINATE:	477886.51	477886.51	477139.87	477883.04	477618.74
EAST COORDINATE:	1379923.25	1379923.25	1379742.3	1379932.66	1379138.31
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	0.60 PCI/G		U	0.74 PCI/G	.26	-	0.75 PCI/G	.214	J	1.05 PCI/G	.21	J	0.60 PCI/G		U
URANIUM, TOTAL	4.63 MG/KG	1.76	J	2.76 MG/KG	.83	R	2.85 MG/KG	.78	J	5.80 MG/KG	1.1	R	2.00 MG/KG		UJ
URANIUM-234	0.60 PCI/G		U	0.98 PCI/G	.301	-	0.92 PCI/G	.239	J	0.74 PCI/G	.164	J	0.60 PCI/G		U
THORIUM-230	0.60 PCI/G		U	0.74 PCI/G	.228	-	1.42 PCI/G	.32	J	0.60 PCI/G	.178	-	0.60 PCI/G		U
RADIUM-226	0.65 PCI/G	.09	J	0.90 PCI/G	.14	R	0.59 PCI/G	.046	J	1.70 PCI/G	.3	R	0.50 PCI/G	.1	J
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		UJ	0.60 PCI/G		U	0.60 PCI/G		U
THORIUM-232	0.60 PCI/G		U	0.65 PCI/G	.213	-	0.97 PCI/G	.247	J	0.60 PCI/G		U	0.60 PCI/G		U
THORIUM, TOTAL	1.10 MG/KG		U	5.88 MG/KG	1.93	-	8.71 MG/KG	2.23	J	4.15 MG/KG	1.39	-	5.47 PCI/G		U
RADIUM-228	0.50 PCI/G		UJ	0.74 PCI/G	.21	R	0.54 PCI/G	.06	J	1.00 PCI/G		R	0.50 PCI/G		UJ
THORIUM-228	0.60 PCI/G		U	0.72 PCI/G	.226	-	1.19 PCI/G	.28	J	0.60 PCI/G		U	0.60 PCI/G		U
NEPTUNIUM-237	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U
PLUTONIUM-239/240	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-238	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		UJ	0.60 PCI/G		UJ
STRONTIUM-90	0.50 PCI/G		U	1.34 PCI/G	.28	-	0.50 PCI/G		R	0.50 PCI/G		U	0.50 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		R	1.00 PCI/G		UJ	1.00 PCI/G		R	1.00 PCI/G		UJ
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		R	0.20 PCI/G		UJ	0.20 PCI/G		R	0.20 PCI/G		UJ

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	010450	010454	010449	121065	112241
TASK:	3.2	3.2	3.2	50.03.18	20.03.05
LAB:	IT	IT	IT	TCT	IT
WELL OR BORING NUMBER:	4016	4016	4016	500318/SS-42	AFP-SD-02
DEPTH:	95-96.5	115-116.	89-91	0-.5	0-.5
DATE COLLECTED:	20-DEC-88	21-DEC-88	20-DEC-88	30-JUN-93	12-MAY-93
NORTH COORDINATE:	477618.74	477618.74	477618.74	477477.58	477141
EAST COORDINATE:	1379138.31	1379138.31	1379138.31	1380037.6	1379970.14
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM										10500.00 MG/KG		J	9620.00 MG/KG		-
ANTIMONY										3.60 MG/KG		UJ	1.50 MG/KG		UJ
ARSENIC										9.20 MG/KG		-	10.40 MG/KG		-
BARIUM										83.20 MG/KG		-	75.00 MG/KG		-
BERYLLIUM										1.30 MG/KG		UJ	1.90 MG/KG		-
CADMIUM										1.30 MG/KG		U	0.47 MG/KG		U
CALCIUM										18800.00 MG/KG		-	59800.00 MG/KG		-
CHROMIUM										14.80 MG/KG		-	13.00 MG/KG		-
COBALT										11.40 MG/KG		-	10.30 MG/KG		-
COPPER										17.30 MG/KG		-	23.60 MG/KG		-
CYANIDE										0.32 MG/KG		UJ	0.12 MG/KG		UR
IRON										23100.00 MG/KG		J	16500.00 MG/KG		-
LEAD										28.10 MG/KG		R	23.70 MG/KG		-
MAGNESIUM										7160.00 MG/KG		-	16600.00 MG/KG		-
MANGANESE										653.00 MG/KG		R	463.00 MG/KG		-
MERCURY										0.10 MG/KG		U	0.12 MG/KG		U
MOLYBDENUM										4.30 MG/KG		U	1.70 MG/KG		-
NICKEL										20.30 MG/KG		-	20.10 MG/KG		-
POTASSIUM										699.00 MG/KG		-	1760.00 MG/KG		-
SELENIUM										0.26 MG/KG		UR	0.93 MG/KG		UJ
SILICON										230.00 MG/KG		J	738.00 MG/KG		J
SILVER										0.51 MG/KG		UJ	0.47 MG/KG		U
SODIUM										53.80 MG/KG		-	146.00 MG/KG		-
THALLIUM										0.26 MG/KG		-	0.24 MG/KG		-
VANADIUM										23.80 MG/KG		-	23.90 MG/KG		-
ZINC										50.90 MG/KG		J	60.40 MG/KG		-
PESTICIDES															
4,4'-DDD										4.20 UG/KG		U	4.00 UG/KG		U

000117

5704

SAMPLE NUMBER:	010450			010454			010449			121065			112241		
LAB:										TCT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE										4.20 UG/KG		U	4.00 UG/KG		U
4,4'-DDT										4.20 UG/KG		U	4.00 UG/KG		U
ALDRIN										2.20 UG/KG		U	2.10 UG/KG		U
ALPHA-BHC										2.20 UG/KG		U	2.10 UG/KG		U
ALPHA-CHLORDANE										2.20 UG/KG		U	2.10 UG/KG		U
AROCLOR-1016										42.00 UG/KG		U	40.00 UG/KG		U
AROCLOR-1221										86.00 UG/KG		U	82.00 UG/KG		U
AROCLOR-1232										42.00 UG/KG		U	40.00 UG/KG		U
AROCLOR-1242										42.00 UG/KG		U	40.00 UG/KG		U
AROCLOR-1248										42.00 UG/KG		U	40.00 UG/KG		U
AROCLOR-1254										42.00 UG/KG		U	40.00 UG/KG		U
AROCLOR-1260										42.00 UG/KG		U	40.00 UG/KG		U
BETA-BHC										2.20 UG/KG		U	2.10 UG/KG		U
DELTA-BHC										2.20 UG/KG		U	2.10 UG/KG		U
DIELDRIN										4.20 UG/KG		U	4.00 UG/KG		U
ENDOSULFAN II										4.20 UG/KG		U	4.00 UG/KG		U
ENDOSULFAN SULFATE										4.20 UG/KG		U	4.00 UG/KG		U
ENDOSULFAN-I										2.20 UG/KG		U	2.10 UG/KG		U
ENDRIN										4.20 UG/KG		U	4.00 UG/KG		U
ENDRIN ALDEHYDE										4.20 UG/KG		U	4.00 UG/KG		U
ENDRIN KETONE										4.20 UG/KG		U	4.00 UG/KG		U
GAMMA-BHC (LINDANE)										2.20 UG/KG		U	2.10 UG/KG		U
GAMMA-CHLORDANE										2.20 UG/KG		U	2.10 UG/KG		U
HEPTACHLOR										2.20 UG/KG		U	2.10 UG/KG		U
HEPTACHLOR EPOXIDE										2.20 UG/KG		U	2.10 UG/KG		U
METHOXYCHLOR										22.00 UG/KG		U	21.00 UG/KG		U
TOXAPHENE										220.00 UG/KG		U	210.00 UG/KG		U
RADIONUCLIDES															
URANIUM-238	0.80 PCI/G	.2	-	0.60 PCI/G		U							4.39 PCI/G	.979	-
URANIUM, TOTAL	3.00 MG/KG	2	R	2.00 MG/KG	1	UJ	14.00 MG/KG	4.2	-				13.60 MG/KG	4.08	-
URANIUM-234	0.70 PCI/G	.2	-	0.60 PCI/G		U							4.14 PCI/G	.924	-
THORIUM-230	1.20 PCI/G	.2	R	0.60 PCI/G		U							1.50 PCI/G	.442	J
RADIUM-226	0.90 PCI/G	.1	R	0.30 PCI/G		UJ							1.30 PCI/G	.191	-
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		U							0.20 PCI/G	.077	J
THORIUM-232	0.90 PCI/G	.2	R	0.60 PCI/G		U							0.93 PCI/G	.3068	J
THORIUM, TOTAL	8.21 PCI/G	.2	R	5.47 PCI/G		U							8.57 MG/KG	2.82	J
RADIUM-228	1.20 PCI/G	.2	R	0.50 PCI/G		UJ							1.01 PCI/G	.237	-
THORIUM-228	1.10 PCI/G	.2	R	0.60 PCI/G		U							0.81 PCI/G	.277	J
NEPTUNIUM-237	0.60 PCI/G		U	0.60 PCI/G		U							0.20 PCI/G	.05525	UJ
PLUTONIUM-239/240	0.60 PCI/G		UJ	0.60 PCI/G		UJ							0.20 PCI/G	.0494	UJ
PLUTONIUM-238	0.60 PCI/G		UJ	0.60 PCI/G		UJ							0.20 PCI/G	.0418	UJ
STRONTIUM-90	4.00 PCI/G	.6	-	0.90 PCI/G	.2	-							0.50 PCI/G	.119	UJ
TECHNETIUM-99	1.00 PCI/G		U	1.00 PCI/G		U							1.00 PCI/G		UJ

SAMPLE NUMBER:	010450			010454			010449			121065			112241		
LAB:	IT			IT									IT/RSL		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		R	1.00 PCI/G		UJ							1.00 PCI/G		UJ
CESIUM-137	0.20 PCI/G		R	0.20 PCI/G		UJ							0.92 PCI/G	.176	-
GROSS ALPHA													22.40 PCI/G	9.36	J
GROSS BETA													32.30 PCI/G	8.3	J
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE										420.00 UG/KG		U	400.00 UG/KG		U
1,2-DICHLOROBENZENE										420.00 UG/KG		U	400.00 UG/KG		U
1,3-DICHLOROBENZENE										420.00 UG/KG		U	400.00 UG/KG		U
1,4-DICHLOROBENZENE										420.00 UG/KG		U	400.00 UG/KG		U
2,4,5-TRICHLOROPHENOL										1100.00 UG/KG		U	980.00 UG/KG		U
2,4,6-TRICHLOROPHENOL										420.00 UG/KG		U	400.00 UG/KG		U
2,4-DICHLOROPHENOL										420.00 UG/KG		U	400.00 UG/KG		U
2,4-DIMETHYLPHENOL										420.00 UG/KG		U	400.00 UG/KG		U
2,4-DINITROPHENOL										1100.00 UG/KG		U	980.00 UG/KG		UJ
2,4-DINITROTOLUENE										420.00 UG/KG		U	400.00 UG/KG		U
2,6-DINITROTOLUENE										420.00 UG/KG		U	400.00 UG/KG		U
2-CHLORONAPHTHALENE										420.00 UG/KG		U	400.00 UG/KG		U
2-CHLOROPHENOL										420.00 UG/KG		U	400.00 UG/KG		U
2-METHYLNAPHTHALENE										420.00 UG/KG		U	400.00 UG/KG		U
2-METHYLPHENOL										420.00 UG/KG		U	400.00 UG/KG		U
2-NITROANILINE										1100.00 UG/KG		U	980.00 UG/KG		UJ
2-NITROPHENOL										420.00 UG/KG		U	400.00 UG/KG		U
3,3'-DICHLOROBENZIDINE										420.00 UG/KG		U	400.00 UG/KG		UJ
3-NITROANILINE										1100.00 UG/KG		U	980.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL										1100.00 UG/KG		U	980.00 UG/KG		UJ
4-BROMOPHENYL PHENYL ETHER										420.00 UG/KG		U	400.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL										420.00 UG/KG		U	400.00 UG/KG		UJ
4-CHLOROPHENYLPHENYL ETHER										420.00 UG/KG		U	400.00 UG/KG		U
4-METHYLPHENOL										420.00 UG/KG		U	400.00 UG/KG		U
4-NITROANILINE										1100.00 UG/KG		U	980.00 UG/KG		UJ
4-NITROPHENOL										1100.00 UG/KG		U	980.00 UG/KG		UJ
ACENAPHTHENE										420.00 UG/KG		U	400.00 UG/KG		U
ACENAPHTHYLENE										420.00 UG/KG		U	400.00 UG/KG		U
ANTHRACENE										420.00 UG/KG		U	400.00 UG/KG		U
BENZO(A)ANTHRACENE										420.00 UG/KG		U	400.00 UG/KG		U
BENZO(A)PYRENE										420.00 UG/KG		U	400.00 UG/KG		U
BENZO(B)FLUORANTHENE										420.00 UG/KG		U	400.00 UG/KG		U
BENZO(G,H,I)PERYLENE										420.00 UG/KG		U	400.00 UG/KG		U
BENZO(K)FLUORANTHENE										420.00 UG/KG		U	400.00 UG/KG		U
BENZOIC ACID										1100.00 UG/KG		U	980.00 UG/KG		UJ
BENZYL ALCOHOL										420.00 UG/KG		U	400.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE										420.00 UG/KG		U	400.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER										420.00 UG/KG		U	400.00 UG/KG		U

8

000119

5704

SAMPLE NUMBER:	010450			010454			010449			121065			112241		
LAB:										TCT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER										420.00 UG/KG		U	400.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE										420.00 UG/KG		U	150.00 UG/KG		J
BUTYL BENZYL PHTHALATE										420.00 UG/KG		U	400.00 UG/KG		U
CARBAZOLE													400.00 UG/KG		U
CHRYSENE										420.00 UG/KG		U	400.00 UG/KG		U
DI-N-BUTYL PHTHALATE										420.00 UG/KG		U	400.00 UG/KG		U
DI-N-OCTYL PHTHALATE										420.00 UG/KG		U	400.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE										420.00 UG/KG		U	400.00 UG/KG		U
DIBENZOFURAN										420.00 UG/KG		U	400.00 UG/KG		U
DIETHYL PHTHALATE										420.00 UG/KG		U	400.00 UG/KG		U
DIMETHYL PHTHALATE										420.00 UG/KG		U	400.00 UG/KG		U
FLUORANTHENE										420.00 UG/KG		U	400.00 UG/KG		U
FLUORENE										420.00 UG/KG		U	400.00 UG/KG		U
HEXACHLOROBENZENE										420.00 UG/KG		U	400.00 UG/KG		U
HEXACHLOROBUTADIENE										420.00 UG/KG		U	400.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE										420.00 UG/KG		U	400.00 UG/KG		U
HEXACHLOROETHANE										420.00 UG/KG		U	400.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE										420.00 UG/KG		U	400.00 UG/KG		U
ISOPHORONE										420.00 UG/KG		U	400.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE										420.00 UG/KG		U	400.00 UG/KG		U
N-NITROSODIPHENYLAMINE										420.00 UG/KG		U	400.00 UG/KG		U
NAPHTHALENE										420.00 UG/KG		U	400.00 UG/KG		UJ
NITROBENZENE										420.00 UG/KG		U	400.00 UG/KG		U
P-CHLOROANILINE										420.00 UG/KG		U	400.00 UG/KG		U
PENTACHLOROPHENOL										420.00 UG/KG		U	400.00 UG/KG		UJ
PHENANTHRENE										1100.00 UG/KG		U	980.00 UG/KG		U
PHENOL										420.00 UG/KG		U	400.00 UG/KG		U
PYRENE										420.00 UG/KG		U	400.00 UG/KG		U
										420.00 UG/KG		U	400.00 UG/KG		UJ
VOLATILES															
1,1,1-TRICHLOROETHANE										13.00 UG/KG		U	12.00 UG/KG		UJ
1,1,2,2-TETRACHLOROETHANE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
1,1,2-TRICHLOROETHANE										13.00 UG/KG		U	12.00 UG/KG		UJ
1,1-DICHLOROETHANE										13.00 UG/KG		U	12.00 UG/KG		U
1,1-DICHLOROETHENE										13.00 UG/KG		U	12.00 UG/KG		U
1,2-DICHLOROETHANE										13.00 UG/KG		U	12.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)										13.00 UG/KG		U	12.00 UG/KG		U
1,2-DICHLOROPROPANE										13.00 UG/KG		U	12.00 UG/KG		UJ
2-BUTANONE										13.00 UG/KG		U	12.00 UG/KG		UJ
2-HEXANONE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
4-METHYL-2-PENTANONE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
ACETONE										13.00 UG/KG		UJ	12.00 UG/KG		UR
BENZENE										13.00 UG/KG		U	12.00 UG/KG		UJ
BROMODICHLOROMETHANE										13.00 UG/KG		U	12.00 UG/KG		UJ

000120

SAMPLE NUMBER:	010450			010454			010449			121065			112241		
LAB:										TCT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM										13.00 UG/KG		U	12.00 UG/KG		UJ
BROMOMETHANE										13.00 UG/KG		U	12.00 UG/KG		U
CARBON DISULFIDE										13.00 UG/KG		U	12.00 UG/KG		U
CARBON TETRACHLORIDE										13.00 UG/KG		U	12.00 UG/KG		UJ
CHLOROBENZENE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
CHLOROETHANE										13.00 UG/KG		U	12.00 UG/KG		U
CHLOROFORM										13.00 UG/KG		U	12.00 UG/KG		U
CHLOROMETHANE										13.00 UG/KG		U	12.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE										13.00 UG/KG		U	12.00 UG/KG		UJ
DIBROMOCHLOROMETHANE										13.00 UG/KG		U	12.00 UG/KG		UJ
ETHYLBENZENE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
METHYLENE CHLORIDE										13.00 UG/KG		U	12.00 UG/KG		U
STYRENE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
TETRACHLOROETHENE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
TOLUENE										13.00 UG/KG		UJ	12.00 UG/KG		UJ
TRANS-1,3-DICHLOROPROPENE										13.00 UG/KG		U	12.00 UG/KG		UJ
TRICHLOROETHENE										13.00 UG/KG		U	12.00 UG/KG		UJ
VINYL ACETATE										13.00 UG/KG		UJ			
VINYL CHLORIDE										13.00 UG/KG		U	12.00 UG/KG		U
XYLENES, TOTAL										13.00 UG/KG		UJ	12.00 UG/KG		UJ

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	112248	112249	112246	SL-24-190	SS-24-189
TASK:	20.03.05	20.03.05	20.03.05	CIS	CIS
LAB:	IT	IT	IT	WEMCO	TMA
WELL OR BORING NUMBER:	AFP-SD-03	AFP-SD-04	AFP-SD-06	CIS_SYSGEN_115	CIS_SYSGEN_115
DEPTH:	0-.5	0-.5	0-.5	.17-.5	0-.5
DATE COLLECTED:	13-MAY-93	13-MAY-93	13-MAY-93		
NORTH COORDINATE:	477194.96	477324.3	477497.26	478049.73	478049.73
EAST COORDINATE:	1380110.59	1380138.55	1379983.5	1379509.12	1379509.12
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	RE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	10400.00 MG/KG		-	5850.00 MG/KG		-	7630.00 MG/KG		-						
ANTIMONY	1.50 MG/KG		UJ	1.50 MG/KG		UJ	1.60 MG/KG		UJ						
ARSENIC	13.20 MG/KG		-	27.20 MG/KG		-	10.90 MG/KG		-						
BARIUM	82.70 MG/KG		J	109.00 MG/KG		J	71.10 MG/KG		J						
BERYLLIUM	1.50 MG/KG		-	2.10 MG/KG		-	1.40 MG/KG		-						
CADMIUM	0.74 MG/KG		-	0.52 MG/KG		U	0.75 MG/KG		-						
CALCIUM	9160.00 MG/KG		-	8910.00 MG/KG		-	49200.00 MG/KG		-						
CHROMIUM	13.40 MG/KG		-	9.00 MG/KG		-	11.60 MG/KG		-						
COBALT	10.20 MG/KG		-	10.60 MG/KG		-	9.70 MG/KG		-						
COPPER	19.90 MG/KG		-	23.00 MG/KG		-	22.20 MG/KG		-						
CYANIDE	0.13 MG/KG		UR	0.14 MG/KG		UR	0.16 MG/KG		UR						
IRON	16000.00 MG/KG		J	9470.00 MG/KG		J	15600.00 MG/KG		J						
LEAD	21.60 MG/KG		-	25.50 MG/KG		-	15.70 MG/KG		-						
MAGNESIUM	3650.00 MG/KG		-	2740.00 MG/KG		-	16100.00 MG/KG		-						
MANGANESE	302.00 MG/KG		J	334.00 MG/KG		J	433.00 MG/KG		J						
MERCURY	0.12 MG/KG		U	0.14 MG/KG		U	0.15 MG/KG		U						
MOLYBDENUM	2.20 MG/KG		-	2.30 MG/KG		-	1.70 MG/KG		-						
NICKEL	17.90 MG/KG		-	15.30 MG/KG		-	18.40 MG/KG		-						
POTASSIUM	1330.00 MG/KG		J	714.00 MG/KG		J	1120.00 MG/KG		J						
SELENIUM	0.94 MG/KG		UJ	1.90 MG/KG		J	0.48 MG/KG		UJ						
SILICON	1250.00 MG/KG		J	917.00 MG/KG		J	1090.00 MG/KG		J						
SILVER	0.51 MG/KG		U	0.52 MG/KG		U	0.63 MG/KG		U						
SODIUM	92.10 MG/KG		J	99.80 MG/KG		J	140.00 MG/KG		J						
THALLIUM	0.52 MG/KG		-	0.77 MG/KG		-	0.32 MG/KG		-						
VANADIUM	26.30 MG/KG		J	23.00 MG/KG		J	21.50 MG/KG		J						
ZINC	49.60 MG/KG		J	39.60 MG/KG		J	53.10 MG/KG		J						
PESTICIDES															
4,4'-DDD	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						

000122

SAMPLE NUMBER:	112248			112249			112246			SL-24-190			SS-24-189		
LAB:	IT			IT			IT								
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
4,4'-DDT	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
ALDRIN	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
ALPHA-BHC	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
ALPHA-CHLORDANE	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
AROCLOR-1016	44.00 UG/KG		U	45.00 UG/KG		U	61.00 UG/KG		U						
AROCLOR-1221	90.00 UG/KG		U	92.00 UG/KG		U	120.00 UG/KG		U						
AROCLOR-1232	44.00 UG/KG		U	45.00 UG/KG		U	61.00 UG/KG		U						
AROCLOR-1242	44.00 UG/KG		U	45.00 UG/KG		U	61.00 UG/KG		U						
AROCLOR-1248	44.00 UG/KG		U	45.00 UG/KG		U	61.00 UG/KG		U						
AROCLOR-1254	44.00 UG/KG		U	45.00 UG/KG		U	61.00 UG/KG		U						
AROCLOR-1260	44.00 UG/KG		U	45.00 UG/KG		U	61.00 UG/KG		U						
BETA-BHC	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
DELTA-BHC	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
DIELDRIN	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
ENDOSULFAN II	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
ENDOSULFAN SULFATE	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
ENDOSULFAN-I	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
ENDRIN	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
ENDRIN ALDEHYDE	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
ENDRIN KETONE	4.40 UG/KG		U	4.50 UG/KG		U	6.10 UG/KG		U						
GAMMA-BHC (LINDANE)	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
GAMMA-CHLORDANE	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
HEPTACHLOR	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
HEPTACHLOR EPOXIDE	2.30 UG/KG		U	2.30 UG/KG		U	3.10 UG/KG		U						
METHOXYCHLOR	23.00 UG/KG		U	23.00 UG/KG		U	31.00 UG/KG		U						
TOXAPHENE	230.00 UG/KG		U	230.00 UG/KG		U	310.00 UG/KG		U						
RADIONUCLIDES															
URANIUM-238	3.11 PCI/G	.703	-	3.05 PCI/G	.7	-	2.90 PCI/G	.643	-	22.50 PCI/G		UNV	7.49 PCI/G	.456	-
URANIUM, TOTAL	10.70 MG/KG	4.11	-	10.20 MG/KG	3.97	-	11.30 MG/KG	3.32	-	67.05 MG/KG		NV	22.46 MG/KG	.456	-
URANIUM-234	2.83 PCI/G	.642	-	2.37 PCI/G	.555	-	2.77 PCI/G	.617	-				4.73 PCI/G	.363	-
THORIUM-230	1.55 PCI/G	.354	-	1.73 PCI/G	.482	-	1.47 PCI/G	.335	-				0.15 PCI/G	.0686	NV
RADIUM-226	1.38 PCI/G	.202	-	1.96 PCI/G	.25	-	1.32 PCI/G	.179	-	22.80 PCI/G	1.3	NV	32.30 PCI/G	1.5	NV
URANIUM-235/236	0.13 PCI/G	.061	J	0.17 PCI/G	.077	J	0.16 PCI/G	.067	J				0.28 PCI/G	.0876	-
THORIUM-232	1.23 PCI/G	.287	-	1.61 PCI/G	.454	-	0.88 PCI/G	.211	-	3.20 PCI/G		UNV	0.10 PCI/G	.0343	UJ
THORIUM, TOTAL	11.20 MG/KG	2.6	-	14.70 MG/KG	4.1	-	8.04 MG/KG	1.92	-	29.18 PCI/G		NV	0.91 PCI/G	.0343	UJ
RADIUM-228	1.29 PCI/G	.258	-	1.67 PCI/G	.306	-	0.91 PCI/G	.238	-						
THORIUM-228	1.09 PCI/G	.257	-	1.40 PCI/G	.408	-	0.82 PCI/G	.199	-				0.15 PCI/G	.0669	U
NEPTUNIUM-237	0.20 PCI/G	.035	UJ	0.20 PCI/G	.052	UJ	0.20 PCI/G	.031	UJ				0.20 PCI/G		U
PLUTONIUM-239/240	0.20 PCI/G	.0286	UJ	0.20 PCI/G	.0232	UJ	0.05 PCI/G	.0978	R				0.20 PCI/G	.0542	U
PLUTONIUM-238	0.20 PCI/G	.025	UJ	0.20 PCI/G	.0247	UJ	0.20 PCI/G	.0224	UJ				0.20 PCI/G	.0939	U
STRONTIUM-90	0.50 PCI/G		UJ	0.50 PCI/G		UJ	0.50 PCI/G		UJ				0.50 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ				1.20 PCI/G		U

SAMPLE NUMBER:	112248			112249			112246			SL-24-190			SS-24-189		
LAB:	IT/RSL			IT/RSL			IT/RSL						TMA		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	7.30 PCI/G		UNV	2.49 PCI/G	3.374	NV
CESIUM-137	0.46 PCI/G	.114	-	0.20 PCI/G	.062	UJ	0.20 PCI/G	.063	UJ	1.30 PCI/G		UNV	2.39 PCI/G	.6986	NV
GROSS ALPHA	17.90 PCI/G	8.22	-	20.30 PCI/G	8.8	-	20.70 PCI/G	9	-						
GROSS BETA	25.70 PCI/G	7.06	-	25.60 PCI/G	7	-	31.50 PCI/G	8.01	-						
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
1,2-DICHLOROBENZENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
1,3-DICHLOROBENZENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
1,4-DICHLOROBENZENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2,4,5-TRICHLOROPHENOL	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
2,4,6-TRICHLOROPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2,4-DICHLOROPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2,4-DIMETHYLPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2,4-DINITROPHENOL	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
2,4-DINITROTOLUENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2,6-DINITROTOLUENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2-CHLORONAPHTHALENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2-CHLOROPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2-METHYLNAPHTHALENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2-METHYLPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
2-NITROANILINE	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
2-NITROPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
3,3'-DICHLOROBENZIDINE	440.00 UG/KG		UJ	450.00 UG/KG		UJ	600.00 UG/KG		UJ						
3-NITROANILINE	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
4,6-DINITRO-2-METHYLPHENOL	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
4-BROMOPHENYL PHENYL ETHER	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
4-CHLORO-3-METHYLPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
4-CHLOROPHENYLPHENYL ETHER	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
4-METHYLPHENOL	440.00 UG/KG		U	450.00 UG/KG		U	1700.00 UG/KG		-						
4-NITROANILINE	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
4-NITROPHENOL	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
ACENAPHTHENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
ACENAPHTHYLENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
ANTHRACENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
BENZO(A)ANTHRACENE	440.00 UG/KG		U	110.00 UG/KG		J	600.00 UG/KG		U						
BENZO(A)PYRENE	440.00 UG/KG		U	120.00 UG/KG		J	600.00 UG/KG		U						
BENZO(B)FLUORANTHENE	440.00 UG/KG		U	180.00 UG/KG		J	600.00 UG/KG		U						
BENZO(G,H,I)PERYLENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
BENZO(K)FLUORANTHENE	440.00 UG/KG		U	73.00 UG/KG		J	600.00 UG/KG		U						
BENZOIC ACID	2200.00 UG/KG		U	120.00 UG/KG		J	680.00 UG/KG		J						
BENZYL ALCOHOL	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
BIS(2-CHLOROETHOXY)METHANE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
BIS(2-CHLOROETHYL)ETHER	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						

SAMPLE NUMBER:	112248			112249			112246			SL-24-190			SS-24-189		
LAB:	IT			IT			IT								
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROISOPROPYL) ETHER	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
BIS(2-ETHYLHEXYL)PHTHALATE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
BUTYL BENZYL PHTHALATE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
CARBAZOLE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
CHRYSENE	440.00 UG/KG		U	150.00 UG/KG		J	600.00 UG/KG		U						
DI-N-BUTYL PHTHALATE	440.00 UG/KG		U	450.00 UG/KG		U	64.00 UG/KG		J						
DI-N-OCTYL PHTHALATE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
DIBENZO(A,H)ANTHRACENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
DIBENZOFURAN	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
DIETHYL PHTHALATE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
DIMETHYL PHTHALATE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
FLUORANTHENE	440.00 UG/KG		U	390.00 UG/KG		J	600.00 UG/KG		U						
FLUORENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
HEXACHLOROBENZENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
HEXACHLOROBUTADIENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
HEXACHLOROCYCLOPENTADIENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
HEXACHLOROETHANE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
INDENO(1,2,3-CD)PYRENE	440.00 UG/KG		U	74.00 UG/KG		J	600.00 UG/KG		U						
ISOPHORONE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
N-NITROSO-DI-N-PROPYLAMINE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
N-NITROSODIPHENYLAMINE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
NAPHTHALENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
NITROBENZENE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
P-CHLOROANILINE	440.00 UG/KG		U	450.00 UG/KG		U	600.00 UG/KG		U						
PENTACHLOROPHENOL	1100.00 UG/KG		U	1100.00 UG/KG		U	1500.00 UG/KG		U						
PHENANTHRENE	440.00 UG/KG		U	210.00 UG/KG		J	600.00 UG/KG		U						
PHENOL	440.00 UG/KG		U	450.00 UG/KG		U	230.00 UG/KG		J						
PYRENE	440.00 UG/KG		U	230.00 UG/KG		J	600.00 UG/KG		U						
VOLATILES															
1,1,1-TRICHLOROETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
1,1,2,2-TETRACHLOROETHANE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		U						
1,1,2-TRICHLOROETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
1,1-DICHLOROETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
1,1-DICHLOROETHENE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		UJ						
1,2-DICHLOROETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
1,2-DICHLOROETHENE (TOTAL)	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
1,2-DICHLOROPROPANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
2-BUTANONE	14.00 UG/KG		UR	14.00 UG/KG		UR	19.00 UG/KG		UR						
2-HEXANONE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		UJ						
4-METHYL-2-PENTANONE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		UJ						
ACETONE	110.00 UG/KG		R	31.00 UG/KG		R	51.00 UG/KG		R						
BENZENE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
BROMODICHLOROMETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						

SAMPLE NUMBER:	112248			112249			112246			SL-24-190			SS-24-189		
LAB:	IT			IT			IT								
SUFFIX/FILTERFLAG:	NONE-NA			RE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
BROMOMETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
CARBON DISULFIDE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
CARBON TETRACHLORIDE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
CHLOROBENZENE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		U						
CHLOROETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
CHLOROFORM	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
CHLOROMETHANE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		UJ						
CIS-1,3-DICHLOROPROPENE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
DIBROMOCHLOROMETHANE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
ETHYLBENZENE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		U						
METHYLENE CHLORIDE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
STYRENE	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		U						
TETRACHLOROETHENE	2.00 UG/KG		J	14.00 UG/KG		UJ	19.00 UG/KG		U						
TOLUENE	10.00 UG/KG		UJ	10.00 UG/KG		UJ	19.00 UG/KG		U						
TRANS-1,3-DICHLOROPROPENE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
TRICHLOROETHENE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
VINYL CHLORIDE	14.00 UG/KG		UJ	14.00 UG/KG		U	19.00 UG/KG		U						
XYLENES, TOTAL	14.00 UG/KG		UJ	14.00 UG/KG		UJ	19.00 UG/KG		U						

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	SL-24-191			SS-24-002			SL-24-109			SL-24-111			SS-25-007		
TASK:	CIS			CIS			CIS			CIS			CIS		
LAB:	WEMCO			WEMCO			WEMCO			WEMCO			WEMCO		
WELL OR BORING NUMBER:	CIS_SYSGEN_115			CIS_SYSGEN_116			CIS_SYSGEN_117			CIS_SYSGEN_117			CIS_SYSGEN_21		
DEPTH:	.5-1			0-.5			.16-.5			.5-1			0-.5		
DATE COLLECTED:															
NORTH COORDINATE:	478049.73			478052.97			478053.14			478053.14			477440.56		
EAST COORDINATE:	1379509.12			1379500.2			1379494.2			1379494.2			1379945.61		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	17.30 PCI/G	8.9	NV	6.10 PCI/G	3.4	NV	9.90 PCI/G	5.7	NV	23.40 PCI/G		UNV	10.10 PCI/G		UNV
URANIUM, TOTAL	51.55 MG/KG	8.9	NV	18.18 MG/KG	3.4	NV	29.50 MG/KG	5.7	NV	69.73 MG/KG		NV	30.10 MG/KG		NV
RADIUM-226	2.90 PCI/G	.5	NV	1.80 PCI/G	.6	NV	14.70 PCI/G	1	NV	13.10 PCI/G	1	NV	0.70 PCI/G	.3	NV
THORIUM-232	2.70 PCI/G		UNV	2.80 PCI/G		UNV	4.90 PCI/G		UNV	3.50 PCI/G		UNV	1.10 PCI/G	.4	NV
THORIUM, TOTAL	24.62 PCI/G		NV	25.54 PCI/G		NV	44.69 PCI/G		NV	31.92 PCI/G		NV	10.03 PCI/G	.4	NV
RUTHENIUM-106	5.30 PCI/G		UNV	4.10 PCI/G		UNV	7.40 PCI/G		UNV	10.10 PCI/G		UNV	1.00 PCI/G		UNV
CESIUM-137	0.80 PCI/G		UNV	0.30 PCI/G		UNV	0.80 PCI/G		UNV	0.60 PCI/G		UNV	0.20 PCI/G		UNV

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	SS-25-008	SL-25-002	SS-25-001	SL-25-005	SL-25-005D
TASK:	CIS	CIS	CIS	CIS	CIS
LAB:	WEMCO	WEMCO	WEMCO	WEMCO	WEMCO
WELL OR BORING NUMBER:	CIS_SYSGEN_21	CIS_SYSGEN_22	CIS_SYSGEN_22	CIS_SYSGEN_8	CIS_SYSGEN_8
DEPTH:	0-.5	.16-.5	0-.5	.16-.5	.16-.5
DATE COLLECTED:					
NORTH COORDINATE:	477440.56	477440.89	477440.89	477145.79	477145.79
EAST COORDINATE:	1379945.61	1379933.62	1379933.62	1379750.47	1379750.47
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DUPLICATE
QC OF:					SL-25-005
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	2.80 PCI/G	1	NV	2.20 PCI/G	1.6	NV	10.50 PCI/G		UNV	13.90 PCI/G		UNV	2.20 PCI/G	1.6	NV
URANIUM, TOTAL	8.34 MG/KG	1	NV	6.56 MG/KG	1.6	NV	31.29 MG/KG		NV	41.42 MG/KG		NV	6.56 MG/KG	1.6	NV
RADIUM-226	0.80 PCI/G		UNV	0.40 PCI/G		UNV	0.60 PCI/G	.4	NV	0.90 PCI/G	.4	NV	1.40 PCI/G	.7	NV
THORIUM-232	0.80 PCI/G	.3	NV	0.60 PCI/G	.4	NV	0.70 PCI/G	.3	NV	2.20 PCI/G	.8	NV	1.40 PCI/G	.6	NV
THORIUM, TOTAL	7.30 PCI/G	.3	NV	5.47 PCI/G	.4	NV	6.38 PCI/G	.3	NV	20.06 PCI/G	.8	NV	12.77 PCI/G	.6	NV
RUTHENIUM-106	5.50 PCI/G		UNV	5.20 PCI/G		UNV	4.90 PCI/G		UNV	6.70 PCI/G		UNV	18.00 PCI/G		UNV
CESIUM-137	0.60 PCI/G		UNV	0.20 PCI/G		UNV	0.50 PCI/G		UNV	0.20 PCI/G		UNV	1.20 PCI/G		UNV

000128

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	SS-25-004	SL-25-011	SS-25-010	111812	111830
TASK:	CIS	CIS	CIS	20.03.05	20.03.05
LAB:	WEMCO	WEMCO	WEMCO	IT/MWL	ITAS
WELL OR BORING NUMBER:	CIS_SYSGEN_8	CIS_SYSGEN_9	CIS_SYSGEN_9	IFP-SD-02	IFP-SD-02
DEPTH:	0-.5	.16-.5	0-.5	0-.5	0-.5
DATE COLLECTED:				17-APR-93	22-APR-93
NORTH COORDINATE:	477145.79	477159.46	477159.46	478085.08	478085.08
EAST COORDINATE:	1379750.47	1379725.84	1379725.84	1378871.52	1378871.52
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TOTAL ORGANIC CARBON													9272.00 MG/KG		-
INORGANICS															
ALUMINUM										4020.00 MG/KG		-			
ANTIMONY										1.20 MG/KG		UJ			
ARSENIC										5.40 MG/KG		-			
BARIUM										27.30 MG/KG		-			
BERYLLIUM										0.47 MG/KG		U			
CADMIUM										1.20 MG/KG		U			
CALCIUM										111000.00 MG/KG		-			
CHROMIUM										6.50 MG/KG		-			
COBALT										4.80 MG/KG		-			
COPPER										9.50 MG/KG		-			
CYANIDE										0.12 MG/KG		U			
IRON										10300.00 MG/KG		-			
LEAD										6.70 MG/KG		-			
MAGNESIUM										29600.00 MG/KG		-			
MANGANESE										386.00 MG/KG		-			
MERCURY										0.09 MG/KG		U			
MOLYBDENUM										4.70 MG/KG		U			
NICKEL										11.70 MG/KG		-			
POTASSIUM										650.00 MG/KG		-			
SELENIUM										0.47 MG/KG		U			
SILICON										767.00 MG/KG		-			
SILVER										2.40 MG/KG		U			
SODIUM										150.00 MG/KG		-			
THALLIUM										0.52 MG/KG		J			
VANADIUM										13.20 MG/KG		-			
ZINC										41.70 MG/KG		-			

000129

5704

SAMPLE NUMBER:	SS-25-004			SL-25-011			SS-25-010			111812			111830		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDD										4.00 UG/KG		U			
4,4'-DDE										4.00 UG/KG		U			
4,4'-DDT										4.00 UG/KG		U			
ALDRIN										2.00 UG/KG		U			
ALPHA-BHC										2.00 UG/KG		U			
ALPHA-CHLORDANE										2.00 UG/KG		U			
AROCLOR-1016										40.00 UG/KG		U			
AROCLOR-1221										80.00 UG/KG		U			
AROCLOR-1232										40.00 UG/KG		U			
AROCLOR-1242										40.00 UG/KG		U			
AROCLOR-1248										40.00 UG/KG		U			
AROCLOR-1254										40.00 UG/KG		U			
AROCLOR-1260										40.00 UG/KG		U			
BETA-BHC										2.00 UG/KG		U			
DELTA-BHC										2.00 UG/KG		U			
DIELDRIN										4.00 UG/KG		U			
ENDOSULFAN II										4.00 UG/KG		U			
ENDOSULFAN SULFATE										4.00 UG/KG		U			
ENDOSULFAN-I										2.00 UG/KG		U			
ENDRIN										4.00 UG/KG		U			
ENDRIN ALDEHYDE										4.00 UG/KG		U			
ENDRIN KETONE										4.00 UG/KG		U			
GAMMA-BHC (LINDANE)										2.00 UG/KG		U			
GAMMA-CHLORDANE										2.00 UG/KG		U			
HEPTACHLOR										2.00 UG/KG		U			
HEPTACHLOR EPOXIDE										2.00 UG/KG		U			
METHOXYCHLOR										20.00 UG/KG		U			
TOXAPHENE										200.00 UG/KG		U			
RADIONUCLIDES															
URANIUM-238	10.80 PCI/G		UNV	3.00 PCI/G	1.5	NV	17.40 PCI/G		UNV	1.68 PCI/G	.39	-			
URANIUM, TOTAL	32.18 MG/KG		NV	8.94 MG/KG	1.5	NV	51.85 MG/KG		NV	12.00 MG/KG	2.8	J			
URANIUM-234										1.50 PCI/G	.35	-			
THORIUM-230										1.28 PCI/G	.35	J			
RADIUM-226	1.60 PCI/G	.4	NV	1.10 PCI/G	.5	NV	0.80 PCI/G	.3	NV	0.75 PCI/G	.14	-			
URANIUM-235/236										0.12 PCI/G	.06	J			
THORIUM-232	6.50 PCI/G		UNV	1.00 PCI/G	.6	NV	1.50 PCI/G	.4	NV	0.55 PCI/G	.182	J			
THORIUM, TOTAL	59.28 PCI/G		NV	9.12 PCI/G	.6	NV	13.68 PCI/G	.4	NV	5.04 MG/KG	1.66	-			
RADIUM-228										0.51 PCI/G	.18	-			
THORIUM-228										0.49 PCI/G	.17	J			
NEPTUNIUM-237										0.20 PCI/G	.03	U			
PLUTONIUM-239/240										0.20 PCI/G	.023	UJ			
PLUTONIUM-238										0.20 PCI/G	.05	U			
STRONTIUM-90										0.50 PCI/G	.298	UJ			

SAMPLE NUMBER:	SS-25-004			SL-25-011			SS-25-010			111812			111830		
LAB:										IT/RSL					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
TECHNETIUM-99										1.00 PCI/G		UJ			
RUTHENIUM-106	17.20 PCI/G		UNV	1.00 PCI/G		UNV	1.00 PCI/G		UNV	1.00 PCI/G		UJ			
CESIUM-137	0.90 PCI/G		UNV	0.90 PCI/G		UNV	0.20 PCI/G		UNV	0.20 PCI/G		UJ			
GROSS ALPHA										15.60 PCI/G	8	-			
GROSS BETA										17.60 PCI/G	6.1	-			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE										400.00 UG/KG		U			
1,2-DICHLOROBENZENE										400.00 UG/KG		U			
1,3-DICHLOROBENZENE										400.00 UG/KG		U			
1,4-DICHLOROBENZENE										400.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL										1900.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL										400.00 UG/KG		U			
2,4-DICHLOROPHENOL										400.00 UG/KG		U			
2,4-DIMETHYLPHENOL										400.00 UG/KG		U			
2,4-DINITROPHENOL										1900.00 UG/KG		UR			
2,4-DINITROTOLUENE										400.00 UG/KG		U			
2,6-DINITROTOLUENE										400.00 UG/KG		U			
2-CHLORONAPHTHALENE										400.00 UG/KG		U			
2-CHLOROPHENOL										400.00 UG/KG		U			
2-METHYLNAPHTHALENE										400.00 UG/KG		U			
2-METHYLPHENOL										400.00 UG/KG		U			
2-NITROANILINE										1900.00 UG/KG		U			
2-NITROPHENOL										400.00 UG/KG		U			
3,3'-DICHLOROBENZIDINE										400.00 UG/KG		U			
3-NITROANILINE										1900.00 UG/KG		U			
4,6-DINITRO-2-METHYLPHENOL										1900.00 UG/KG		UR			
4-BROMOPHENYL PHENYL ETHER										400.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL										400.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER										400.00 UG/KG		U			
4-METHYLPHENOL										400.00 UG/KG		U			
4-NITROANILINE										1900.00 UG/KG		U			
4-NITROPHENOL										1900.00 UG/KG		UJ			
ACENAPHTHENE										400.00 UG/KG		U			
ACENAPHTHYLENE										400.00 UG/KG		U			
ANTHRACENE										400.00 UG/KG		U			
BENZO(A)ANTHRACENE										400.00 UG/KG		U			
BENZO(A)PYRENE										9.00 UG/KG		J			
BENZO(B)FLUORANTHENE										400.00 UG/KG		U			
BENZO(G,H,I)PERYLENE										400.00 UG/KG		U			
BENZO(K)FLUORANTHENE										400.00 UG/KG		U			
BENZOIC ACID										28.00 UG/KG		R			
BENZYL ALCOHOL										400.00 UG/KG		UJ			
BIS(2-CHLOROETHOXY)METHANE										400.00 UG/KG		U			

SAMPLE NUMBER:	SS-25-004			SL-25-011			SS-25-010			111812			111830		
LAB:										IT/MWL					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROETHYL)ETHER										400.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER										400.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE										59.00 UG/KG		J			
BUTYL BENZYL PHTHALATE										400.00 UG/KG		U			
CARBAZOLE										7.00 UG/KG		J			
CHRYSENE										400.00 UG/KG		U			
DI-N-BUTYL PHTHALATE										400.00 UG/KG		U			
DI-N-OCTYL PHTHALATE										2.00 UG/KG		J			
DIBENZO(A,H)ANTHRACENE										400.00 UG/KG		U			
DIBENZOFURAN										400.00 UG/KG		U			
DIETHYL PHTHALATE										14.00 UG/KG		U			
DIMETHYL PHTHALATE										400.00 UG/KG		U			
FLUORANTHENE										400.00 UG/KG		U			
FLUORENE										400.00 UG/KG		U			
HEXACHLOROBENZENE										400.00 UG/KG		U			
HEXACHLOROBUTADIENE										400.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE										400.00 UG/KG		UJ			
HEXACHLOROETHANE										400.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE										400.00 UG/KG		U			
ISOPHORONE										400.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE										400.00 UG/KG		U			
N-NITROSODIPHENYLAMINE										400.00 UG/KG		U			
NAPHTHALENE										400.00 UG/KG		U			
NITROBENZENE										400.00 UG/KG		U			
P-CHLOROANILINE										400.00 UG/KG		U			
PENTACHLOROPHENOL										1900.00 UG/KG		U			
PHENANTHRENE										400.00 UG/KG		U			
PHENOL										24.00 UG/KG		J			
PYRENE										400.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE										12.00 UG/KG		U			
1,1,2,2-TETRACHLOROETHANE										12.00 UG/KG		U			
1,1,2-TRICHLOROETHANE										12.00 UG/KG		U			
1,1-DICHLOROETHANE										12.00 UG/KG		U			
1,1-DICHLOROETHENE										12.00 UG/KG		U			
1,2-DICHLOROETHANE										12.00 UG/KG		U			
1,2-DICHLOROETHENE (TOTAL)										12.00 UG/KG		U			
1,2-DICHLOROPROPANE										12.00 UG/KG		U			
2-BUTANONE										12.00 UG/KG		U			
2-HEXANONE										12.00 UG/KG		UJ			
4-METHYL-2-PENTANONE										12.00 UG/KG		U			
ACETONE										12.00 UG/KG		UJ			
BENZENE										12.00 UG/KG		U			

000132

SAMPLE NUMBER:	SS-25-004			SL-25-011			SS-25-010			111812			111830		
LAB:										IT/MWL					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMODICHLOROMETHANE										12.00 UG/KG		U			
BROMOFORM										12.00 UG/KG		U			
BROMOMETHANE										12.00 UG/KG		UJ			
CARBON DISULFIDE										12.00 UG/KG		U			
CARBON TETRACHLORIDE										12.00 UG/KG		U			
CHLOROBENZENE										12.00 UG/KG		U			
CHLOROETHANE										12.00 UG/KG		U			
CHLOROFORM										12.00 UG/KG		U			
CHLOROMETHANE										12.00 UG/KG		U			
CIS-1,3-DICHLOROPROPENE										12.00 UG/KG		U			
DIBROMOCHLOROMETHANE										12.00 UG/KG		U			
ETHYLBENZENE										12.00 UG/KG		U			
METHYLENE CHLORIDE										15.00 UG/KG		U			
STYRENE										12.00 UG/KG		U			
TETRACHLOROETHENE										12.00 UG/KG		U			
TOLUENE										12.00 UG/KG		U			
TRANS-1,3-DICHLOROPROPENE										12.00 UG/KG		U			
TRICHLOROETHENE										12.00 UG/KG		U			
VINYL ACETATE										12.00 UG/KG		UJ			
VINYL CHLORIDE										12.00 UG/KG		U			
XYLENES, TOTAL										12.00 UG/KG		U			

FERNALD ANALYTICAL REPORT
SOILS - OU2 - SOUTHFIELD AREA

SAMPLE NUMBER:	112021				
TASK:	20.03.05				
LAB:	IT-KNOX				
WELL OR BORING NUMBER:	IFP-SD-02				
DEPTH:	0-.5	-	-	-	-
DATE COLLECTED:	30-APR-93				
NORTH COORDINATE:	478085.08				
EAST COORDINATE:	1378871.52				
QA TYPE:	NORMAL				
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	-	-	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	3130.00 MG/KG		-												
ANTIMONY	0.36 MG/KG		UJ												
ARSENIC	1.70 MG/KG		J												
BARIUM	16.50 MG/KG		J												
BERYLLIUM	0.24 MG/KG		U												
CADMIUM	0.67 MG/KG		-												
CALCIUM	105000.00 MG/KG		J												
CHROMIUM	4.90 MG/KG		-												
COBALT	3.10 MG/KG		-												
COPPER	9.30 MG/KG		-												
CYANIDE	0.16 MG/KG		J												
IRON	8110.00 MG/KG		J												
LEAD	4.10 MG/KG		J												
MAGNESIUM	22500.00 MG/KG		-												
MANGANESE	327.00 MG/KG		J												
MERCURY	0.11 MG/KG		U												
MOLYBDENUM	2.20 MG/KG		U												
NICKEL	6.60 MG/KG		-												
POTASSIUM	812.00 MG/KG		J												
SELENIUM	0.23 MG/KG		UJ												
SILICON	805.00 MG/KG		J												
SILVER	0.48 MG/KG		U												
SODIUM	175.00 MG/KG		-												
THALLIUM	0.23 MG/KG		U												
VANADIUM	12.50 MG/KG		J												
ZINC	29.00 MG/KG		J												
PESTICIDES															
4,4'-DDD	3.90 UG/KG		U												

000134

SAMPLE NUMBER:	112021			-			-			-			-		
LAB:	IT-KNOX														
SUFFIX/FILTERFLAG:	NONE-NA														
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	3.90 UG/KG		U												
4,4'-DDT	3.90 UG/KG		U												
ALDRIN	2.00 UG/KG		U												
ALPHA-BHC	2.00 UG/KG		U												
ALPHA-CHLORDANE	2.00 UG/KG		U												
AROCLOR-1016	39.00 UG/KG		UJ												
AROCLOR-1221	80.00 UG/KG		UJ												
AROCLOR-1232	39.00 UG/KG		UJ												
AROCLOR-1242	39.00 UG/KG		UJ												
AROCLOR-1248	39.00 UG/KG		UJ												
AROCLOR-1254	39.00 UG/KG		UJ												
AROCLOR-1260	39.00 UG/KG		UJ												
BETA-BHC	2.00 UG/KG		U												
DELTA-BHC	2.00 UG/KG		U												
DIELDRIN	3.90 UG/KG		U												
ENDOSULFAN II	3.90 UG/KG		U												
ENDOSULFAN SULFATE	3.90 UG/KG		U												
ENDOSULFAN-I	2.00 UG/KG		U												
ENDRIN	3.90 UG/KG		U												
ENDRIN ALDEHYDE	3.90 UG/KG		U												
ENDRIN KETONE	3.90 UG/KG		U												
GAMMA-BHC (LINDANE)	2.00 UG/KG		U												
GAMMA-CHLORDANE	2.00 UG/KG		U												
HEPTACHLOR	2.00 UG/KG		U												
HEPTACHLOR EPOXIDE	2.00 UG/KG		U												
METHOXYCHLOR	20.00 UG/KG		UJ												
TOXAPHENE	200.00 UG/KG		UJ												
RADIONUCLIDES															
URANIUM-238	0.72 PCI/G	.19	J												
URANIUM, TOTAL	12.30 MG/KG	3.1	J												
URANIUM-234	0.77 PCI/G	.2	J												
THORIUM-230	0.75 PCI/G	.24	-												
RADIUM-226	0.65 PCI/G	.12	J												
URANIUM-235/236	0.10 PCI/G	.038	UJ												
THORIUM-232	0.39 PCI/G	.154	J												
THORIUM, TOTAL	3.57 MG/KG	1.4	-												
RADIUM-228	0.67 PCI/G	.21	-												
THORIUM-228	0.42 PCI/G	.17	J												
NEPTUNIUM-237	0.20 PCI/G	.01945	UJ												
PLUTONIUM-239/240	0.20 PCI/G		UJ												
PLUTONIUM-238	0.20 PCI/G	.01941	UJ												
STRONTIUM-90	0.50 PCI/G		UJ												
TECHNETIUM-99	1.00 PCI/G		UJ												

SAMPLE NUMBER:	112021			-			-			-			-		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA														
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106	1.00 PCI/G		UJ												
CESIUM-137	0.20 PCI/G		UJ												
GROSS ALPHA	15.20 PCI/G	7.5	J												
GROSS BETA	16.30 PCI/G	5.35	J												
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	400.00 UG/KG		UJ												
1,2-DICHLOROBENZENE	400.00 UG/KG		U												
1,3-DICHLOROBENZENE	400.00 UG/KG		U												
1,4-DICHLOROBENZENE	400.00 UG/KG		U												
2,4,5-TRICHLOROPHENOL	960.00 UG/KG		U												
2,4,6-TRICHLOROPHENOL	400.00 UG/KG		U												
2,4-DICHLOROPHENOL	400.00 UG/KG		U												
2,4-DIMETHYLPHENOL	400.00 UG/KG		U												
2,4-DINITROPHENOL	960.00 UG/KG		UJ												
2,4-DINITROTOLUENE	400.00 UG/KG		U												
2,6-DINITROTOLUENE	400.00 UG/KG		U												
2-CHLORONAPHTHALENE	400.00 UG/KG		U												
2-CHLOROPHENOL	400.00 UG/KG		U												
2-METHYLNAPHTHALENE	400.00 UG/KG		U												
2-METHYLPHENOL	400.00 UG/KG		UJ												
2-NITROANILINE	960.00 UG/KG		U												
2-NITROPHENOL	400.00 UG/KG		U												
3,3'-DICHLOROBENZIDINE	400.00 UG/KG		U												
3-NITROANILINE	960.00 UG/KG		UJ												
4,6-DINITRO-2-METHYLPHENOL	960.00 UG/KG		U												
4-BROMOPHENYL PHENYL ETHER	400.00 UG/KG		U												
4-CHLORO-3-METHYLPHENOL	400.00 UG/KG		U												
4-CHLOROPHENYLPHENYL ETHER	400.00 UG/KG		U												
4-METHYLPHENOL	400.00 UG/KG		UJ												
4-NITROANILINE	960.00 UG/KG		UR												
4-NITROPHENOL	960.00 UG/KG		U												
ACENAPHTHENE	400.00 UG/KG		U												
ACENAPHTHYLENE	400.00 UG/KG		U												
ANTHRACENE	400.00 UG/KG		U												
BENZO(A)ANTHRACENE	400.00 UG/KG		U												
BENZO(A)PYRENE	400.00 UG/KG		U												
BENZO(B)FLUORANTHENE	400.00 UG/KG		U												
BENZO(G,H,I)PERYLENE	400.00 UG/KG		U												
BENZO(K)FLUORANTHENE	400.00 UG/KG		UJ												
BENZOIC ACID	1900.00 UG/KG		U												
BENZYL ALCOHOL	400.00 UG/KG		U												
BIS(2-CHLOROETHOXY)METHANE	400.00 UG/KG		U												
BIS(2-CHLOROETHYL)ETHER	400.00 UG/KG		U												

000139

SAMPLE NUMBER:	112021			-			-			-			-				
LAB:	IT-KNOX																
SUFFIX/FILTERFLAG:	NONE-NA																
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)		
SEMIVOLATILES																	
BIS(2-CHLOROISOPROPYL) ETHER	400.00 UG/KG		UJ														
BIS(2-ETHYLHEXYL)PHTHALATE	1200.00 UG/KG		-														
BUTYL BENZYL PHTHALATE	400.00 UG/KG		U														
CARBAZOLE	400.00 UG/KG		U														
CHRYSENE	400.00 UG/KG		U														
DI-N-BUTYL PHTHALATE	400.00 UG/KG		U														
DI-N-OCTYL PHTHALATE	400.00 UG/KG		U														
DIBENZO(A,H)ANTHRACENE	400.00 UG/KG		U														
DIBENZOFURAN	400.00 UG/KG		U														
DIETHYL PHTHALATE	400.00 UG/KG		UJ														
DIMETHYL PHTHALATE	400.00 UG/KG		U														
FLUORANTHENE	400.00 UG/KG		U														
FLUORENE	400.00 UG/KG		U														
HEXACHLOROBENZENE	400.00 UG/KG		U														
HEXACHLOROBUTADIENE	400.00 UG/KG		UR														
HEXACHLOROCYCLOPENTADIENE	400.00 UG/KG		U														
HEXACHLOROETHANE	400.00 UG/KG		U														
INDENO(1,2,3-CD)PYRENE	400.00 UG/KG		U														
ISOPHORONE	400.00 UG/KG		U														
N-NITROSO-DI-N-PROPYLAMINE	400.00 UG/KG		U														
N-NITROSODIPHENYLAMINE	400.00 UG/KG		U														
NAPHTHALENE	400.00 UG/KG		U														
NITROBENZENE	400.00 UG/KG		U														
P-CHLOROANILINE	400.00 UG/KG		U														
PENTACHLOROPHENOL	960.00 UG/KG		U														
PHENANTHRENE	400.00 UG/KG		U														
PHENOL	400.00 UG/KG		U														
PYRENE	400.00 UG/KG		U														
VOLATILES																	
1,1,1-TRICHLOROETHANE	13.00 UG/KG		U														
1,1,2,2-TETRACHLOROETHANE	13.00 UG/KG		U														
1,1,2-TRICHLOROETHANE	13.00 UG/KG		U														
1,1-DICHLOROETHANE	13.00 UG/KG		U														
1,1-DICHLOROETHENE	13.00 UG/KG		U														
1,2-DICHLOROETHANE	13.00 UG/KG		U														
1,2-DICHLOROETHENE (TOTAL)	13.00 UG/KG		U														
1,2-DICHLOROPROPANE	13.00 UG/KG		U														
2-BUTANONE	13.00 UG/KG		U														
2-HEXANONE	13.00 UG/KG		U														
4-METHYL-2-PENTANONE	13.00 UG/KG		U														
ACETONE	13.00 UG/KG		U														
BENZENE	13.00 UG/KG		U														
BROMODICHLOROMETHANE	13.00 UG/KG		U														

SAMPLE NUMBER:	112021			-			-			-			-		
LAB:	IT-KNOX														
SUFFIX/FILTERFLAG:	NONE-NA														
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOFORM	13.00 UG/KG		U												
BROMOMETHANE	13.00 UG/KG		UJ												
CARBON DISULFIDE	13.00 UG/KG		U												
CARBON TETRACHLORIDE	13.00 UG/KG		U												
CHLOROBENZENE	13.00 UG/KG		U												
CHLOROETHANE	13.00 UG/KG		UJ												
CHLOROFORM	13.00 UG/KG		U												
CHLOROMETHANE	13.00 UG/KG		U												
CIS-1,3-DICHLOROPROPENE	13.00 UG/KG		U												
DIBROMOCHLOROMETHANE	13.00 UG/KG		U												
ETHYLBENZENE	13.00 UG/KG		U												
METHYLENE CHLORIDE	13.00 UG/KG		U												
STYRENE	13.00 UG/KG		U												
TETRACHLOROETHENE	13.00 UG/KG		U												
TOLUENE	13.00 UG/KG		U												
TRANS-1,3-DICHLOROPROPENE	13.00 UG/KG		U												
TRICHLOROETHENE	13.00 UG/KG		U												
VINYL CHLORIDE	13.00 UG/KG		U												
XYLENES, TOTAL	13.00 UG/KG		U												

OU4 - Silos

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	007407	008188	056014	056013	056015
TASK:	3.2	3.2	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1029	1072	1479	1479	1479
DEPTH:	13.5-15	0-1.5	9.8-10	4.8-5	14.6-15
DATE COLLECTED:	27-OCT-87	06-MAR-88	19-NOV-89	19-NOV-89	19-NOV-89
NORTH COORDINATE:	480826.11	481025.94	480802.84	480802.84	480802.84
EAST COORDINATE:	1378398.38	1378476.39	1378343.75	1378343.75	1378343.75
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	0.60 PCI/G	.2	-	15.00 PCI/G	2.3	-	0.79 PCI/G	.204	-	0.67 PCI/G	.163	-	0.72 PCI/G	.176	-
URANIUM, TOTAL	2.07 MG/KG	.2	-	44.98 MG/KG	2.3	-	2.01 MG/KG	1.21	-	2.67 MG/KG	1.32	-	3.00 MG/KG	2.23	-
URANIUM-234	0.60 PCI/G		U	3.40 PCI/G	.7	-	0.69 PCI/G	.189	-	0.65 PCI/G	.16	-	0.60 PCI/G		U
THORIUM-230	1.00 PCI/G	.3	J	4.80 PCI/G	.9	J	1.46 PCI/G	.28	-	1.48 PCI/G	.3	-	1.16 PCI/G	.23	-
RADIUM-226	0.60 PCI/G	.1	J	1.50 PCI/G	.1	J	0.66 PCI/G	.077	-	0.64 PCI/G	.078	-	0.30 PCI/G		U
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U
THORIUM-232	0.60 PCI/G		UJ	0.90 PCI/G	.3	J	0.65 PCI/G	.166	-	0.60 PCI/G		U	0.60 PCI/G		U
THORIUM, TOTAL	5.47 PCI/G		UJ	8.21 PCI/G	.3	NV	5.82 MG/KG	1.5	-	4.49 MG/KG	1.42	-	3.11 MG/KG	1	-
RADIUM-228	0.50 PCI/G	.1	UJ	1.00 PCI/G	.1	J	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U
THORIUM-228	0.60 PCI/G		UJ	1.20 PCI/G	.4	J	0.60 PCI/G		U	0.63 PCI/G	.178	-	0.60 PCI/G		U
NEPTUNIUM-237	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ
PLUTONIUM-239/240	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U
PLUTONIUM-238	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U
STRONTIUM-90	0.50 PCI/G		U	0.50 PCI/G		UJ	0.50 PCI/G		UJ	0.50 PCI/G		U	0.50 PCI/G		U
TECHNETIUM-99	1.00 PCI/G		U	3.60 PCI/G	1.1	-	1.00 PCI/G		U	1.00 PCI/G	.498	U	1.00 PCI/G		U
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.20 PCI/G		U	0.20 PCI/G		U	0.20 PCI/G		U

000140

5704

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	056016	056018	056017	056021	056022
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1480	1480	1480	1481	1481
DEPTH:	4.8-5	14.7-15	9.9-10.3	14.6-15	15-15
DATE COLLECTED:	20-NOV-89	20-NOV-89	20-NOV-89	20-NOV-89	20-NOV-89
NORTH COORDINATE:	480827.84	480827.84	480827.84	480852.84	480852.84
EAST COORDINATE:	1378343.75	1378343.75	1378343.75	1378343.75	1378343.75
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM													4280.00 MG/KG		-
ANTIMONY													5.00 MG/KG		UJ
ARSENIC													3.20 MG/KG		-
BARIUM													27.70 MG/KG		-
BERYLLIUM													1.30 MG/KG		-
CADMIUM													4.10 MG/KG		J
CALCIUM													154000.00 MG/KG		-
CHROMIUM													16.80 MG/KG		J
COBALT													9.40 MG/KG		-
COPPER													1.90 MG/KG		-
CYANIDE													0.27 MG/KG		U
IRON													12500.00 MG/KG		J
LEAD													8.50 MG/KG		-
MAGNESIUM													30000.00 MG/KG		-
MANGANESE													446.00 MG/KG		-
MERCURY													0.11 MG/KG		UR
MOLYBDENUM													1.70 MG/KG		U
NICKEL													24.70 MG/KG		J
POTASSIUM													724.00 MG/KG		-
SELENIUM													0.32 MG/KG		UJ
SILVER													1.70 MG/KG		UJ
SODIUM													164.00 MG/KG		-
THALLIUM													0.16 MG/KG		U
VANADIUM													20.10 MG/KG		J
ZINC													39.80 MG/KG		UJ
ORGANOPHOSPHORUS															
DIMETHOATE													50.00 UG/KG		U
DISULFOTON													50.00 UG/KG		U

000141

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

DRAFT
Page 3

SAMPLE NUMBER:	056016			056018			056017			056021			056022		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS															
FAMPHUR													100.00 UG/KG		U
METHYL PARATHION													50.00 UG/KG		U
PARATHION													50.00 UG/KG		U
PHORATE													50.00 UG/KG		U
THIONAZIN													50.00 UG/KG		U
PESTICIDES															
4,4'-DDD													90.00 UG/KG		UR
4,4'-DDE													90.00 UG/KG		UR
4,4'-DDT													90.00 UG/KG		UR
ALDRIN													45.00 UG/KG		UR
ALPHA-BHC													45.00 UG/KG		UR
ALPHA-CHLORDANE													450.00 UG/KG		UR
AROCLOR-1016													450.00 UG/KG		UR
AROCLOR-1221													450.00 UG/KG		UR
AROCLOR-1232													450.00 UG/KG		UR
AROCLOR-1242													450.00 UG/KG		UR
AROCLOR-1248													450.00 UG/KG		UR
AROCLOR-1254													900.00 UG/KG		UR
AROCLOR-1260													900.00 UG/KG		UR
BETA-BHC													45.00 UG/KG		UR
DELTA-BHC													45.00 UG/KG		UR
DIELDRIN													90.00 UG/KG		UR
ENDOSULFAN II													90.00 UG/KG		UR
ENDOSULFAN SULFATE													90.00 UG/KG		UR
ENDOSULFAN-I													45.00 UG/KG		UR
ENDRIN													90.00 UG/KG		UR
ENDRIN KETONE													90.00 UG/KG		UR
GAMMA-BHC (LINDANE)													45.00 UG/KG		UR
GAMMA-CHLORDANE													450.00 UG/KG		UR
HEPTACHLOR													45.00 UG/KG		UR
HEPTACHLOR EPOXIDE													45.00 UG/KG		UR
METHOXYCHLOR													450.00 UG/KG		UR
SULFOTEP													50.00 UG/KG		U
TOXAPHENE													900.00 UG/KG		UR
RADIONUCLIDES															
URANIUM-238	0.76 PCI/G	.175	-	2.22 PCI/G	.34	-	0.60 PCI/G		U	0.81 PCI/G	.191	-			
URANIUM, TOTAL	4.00 MG/KG		U	7.76 MG/KG	2.64	-	2.53 MG/KG	1.81	-	2.42 MG/KG	1.92	-			
URANIUM-234	0.60 PCI/G		U	1.23 PCI/G	.22	-	0.65 PCI/G	.162	-	0.60 PCI/G		U			
THORIUM-230	0.91 PCI/G	.204	-	1.53 PCI/G	.29	-	1.05 PCI/G	.23	-	1.30 PCI/G	.27	-			
RADIUM-226	0.73 PCI/G	.127	-	0.30 PCI/G		U	0.70 PCI/G	.1	-	0.30 PCI/G		U			
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U			

000142

5704

SAMPLE NUMBER:	056016			056018			056017			056021			056022		
LAB:	IT			IT			IT			IT					
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM-232	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U			
THORIUM, TOTAL	4.50 MG/KG	1.3	-	5.16 MG/KG	1.45	-	4.50 MG/KG	1.37	-	3.47 MG/KG	1.21	-			
RADIUM-228	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U			
THORIUM-228	0.60 PCI/G		U	0.60 PCI/G		U	0.74 PCI/G	.188	-	0.60 PCI/G		U			
NEPTUNIUM-237	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ	0.60 PCI/G		UJ			
PLUTONIUM-239/240	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U			
PLUTONIUM-238	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U			
STRONTIUM-90	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U			
TECHNETIUM-99	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U			
RUTHENIUM-106	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U	1.00 PCI/G		U			
CESIUM-137	0.20 PCI/G		U	0.20 PCI/G		U	0.20 PCI/G		U	0.20 PCI/G		U			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE													370.00 UG/KG		UJ
1,2-DICHLOROBENZENE													370.00 UG/KG		U
1,3-DICHLOROBENZENE													370.00 UG/KG		U
1,4-DICHLOROBENZENE													370.00 UG/KG		U
2,4,5-TRICHLOROPHENOL													1800.00 UG/KG		U
2,4,6-TRICHLOROPHENOL													370.00 UG/KG		U
2,4-DICHLOROPHENOL													370.00 UG/KG		U
2,4-DIMETHYLPHENOL													370.00 UG/KG		U
2,4-DINITROPHENOL													1800.00 UG/KG		U
2,4-DINITROTOLUENE													370.00 UG/KG		U
2,6-DINITROTOLUENE													370.00 UG/KG		U
2-CHLORONAPHTHALENE													370.00 UG/KG		U
2-CHLOROPHENOL													370.00 UG/KG		U
2-METHYLNAPHTHALENE													370.00 UG/KG		U
2-METHYLPHENOL													370.00 UG/KG		U
2-NITROANILINE													1800.00 UG/KG		U
2-NITROPHENOL													370.00 UG/KG		U
3,3'-DICHLOROBENZIDINE													740.00 UG/KG		UJ
3-NITROANILINE													1800.00 UG/KG		U
4,6-DINITRO-2-METHYLPHENOL													1800.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER													370.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL													370.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER													370.00 UG/KG		U
4-METHYLPHENOL													370.00 UG/KG		U
4-NITROANILINE													1800.00 UG/KG		UJ
4-NITROPHENOL													1800.00 UG/KG		UJ
ACENAPHTHENE													370.00 UG/KG		U
ACENAPHTHYLENE													370.00 UG/KG		U
ANTHRACENE													370.00 UG/KG		U
BENZO(A)ANTHRACENE													370.00 UG/KG		U
BENZO(A)PYRENE													370.00 UG/KG		U

000143

SAMPLE NUMBER:	056016			056018			056017			056021			056022		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(B)FLUORANTHENE													370.00 UG/KG		U
BENZO(G,H,I)PERYLENE													370.00 UG/KG		U
BENZO(K)FLUORANTHENE													370.00 UG/KG		U
BENZOIC ACID													1800.00 UG/KG		U
BENZYL ALCOHOL													370.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE													370.00 UG/KG		UJ
BIS(2-CHLOROETHYL)ETHER													370.00 UG/KG		U
BIS(2-CHLOROISOPROPYL) ETHER													370.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE													370.00 UG/KG		U
BUTYL BENZYL PHTHALATE													370.00 UG/KG		U
CHRYSENE													370.00 UG/KG		U
DI-N-BUTYL PHTHALATE													370.00 UG/KG		U
DI-N-OCTYL PHTHALATE													370.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE													370.00 UG/KG		U
DIBENZOFURAN													370.00 UG/KG		U
DIETHYL PHTHALATE													370.00 UG/KG		U
DIMETHYL PHTHALATE													370.00 UG/KG		U
FLUORANTHENE													370.00 UG/KG		U
FLUORENE													370.00 UG/KG		U
HEXACHLOROBENZENE													370.00 UG/KG		U
HEXACHLOROBUTADIENE													370.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE													370.00 UG/KG		U
HEXACHLOROETHANE													370.00 UG/KG		U
INDENO(1,2,3-CD)PYRENE													370.00 UG/KG		U
ISOPHORONE													370.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE													370.00 UG/KG		U
N-NITROSODIPHENYLAMINE													370.00 UG/KG		U
NAPHTHALENE													370.00 UG/KG		U
NITROBENZENE													370.00 UG/KG		U
P-CHLOROANILINE													370.00 UG/KG		U
PENTACHLOROPHENOL													1800.00 UG/KG		U
PHENANTHRENE													370.00 UG/KG		U
PHENOL													370.00 UG/KG		U
PYRENE													370.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE													5.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE													5.00 UG/KG		U
1,1,2-TRICHLOROETHANE													5.00 UG/KG		U
1,1-DICHLOROETHANE													5.00 UG/KG		UJ
1,1-DICHLOROETHENE													5.00 UG/KG		U
1,2-DICHLOROETHANE													5.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)													5.00 UG/KG		U
1,2-DICHLOROPROPANE													5.00 UG/KG		U

SAMPLE NUMBER:	056016			056018			056017			056021			056022		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
2-BUTANONE													4.00 UG/KG		U
2-HEXANONE													11.00 UG/KG		UJ
4-METHYL-2-PENTANONE													11.00 UG/KG		UJ
ACETONE													8.00 UG/KG		U
BENZENE													5.00 UG/KG		U
BROMODICHLOROMETHANE													5.00 UG/KG		U
BROMOFORM													5.00 UG/KG		U
BROMOMETHANE													11.00 UG/KG		UJ
CARBON DISULFIDE													5.00 UG/KG		U
CARBON TETRACHLORIDE													5.00 UG/KG		U
CHLOROBENZENE													5.00 UG/KG		U
CHLOROETHANE													11.00 UG/KG		U
CHLOROFORM													15.00 UG/KG		-
CHLOROMETHANE													11.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE													5.00 UG/KG		U
DIBROMOCHLOROMETHANE													5.00 UG/KG		U
ETHYLBENZENE													5.00 UG/KG		U
METHYLENE CHLORIDE													6.00 UG/KG		-
STYRENE													5.00 UG/KG		U
TETRACHLOROETHENE													5.00 UG/KG		U
TOLUENE													5.00 UG/KG		U
TRANS-1,3-DICHLOROPROPENE													5.00 UG/KG		U
TRICHLOROETHENE													5.00 UG/KG		U
VINYL ACETATE													11.00 UG/KG		U
VINYL CHLORIDE													11.00 UG/KG		U
XYLENES, TOTAL													5.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	056019	056020	064003	064001	064002
TASK:	3.7	3.7	40.03.01	40.03.01	40.03.01
LAB:	IT	IT		IT	IT
WELL OR BORING NUMBER:	1481	1481	1617	1617	1617
DEPTH:	4.9-5.3	9.8-10.2	61-62.2	59.7-61	59.7-61
DATE COLLECTED:	20-NOV-89	20-NOV-89	04-MAY-91	04-MAY-91	04-MAY-91
NORTH COORDINATE:	480852.84	480852.84	480309.37	480309.37	480309.37
EAST COORDINATE:	1378343.75	1378343.75	1378393.37	1378393.37	1378393.37
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	-	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	0.65 PCI/G	.183	-	0.64 PCI/G	.157	-				5.64 PCI/G	.802	-			
URANIUM, TOTAL	4.43 MG/KG	1.87	-	2.63 MG/KG	1.79	-				15.80 MG/KG	2.8	J			
URANIUM-234	0.73 PCI/G	.195	-	0.64 PCI/G	.157	-				5.60 PCI/G	.798	J			
THORIUM-230	1.06 PCI/G	.23	-	0.77 PCI/G	.165	-				0.88 PCI/G	.266	J			
RADIUM-226	0.30 PCI/G		UJ	0.30 PCI/G		U				0.61 PCI/G	.09	J			
LEAD-210													0.50 PCI/G		UJ
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		U				0.60 PCI/G		UJ			
THORIUM-232	0.60 PCI/G		U	0.60 PCI/G		U				0.60 PCI/G		U			
THORIUM, TOTAL	4.77 MG/KG	1.4	-	2.72 MG/KG	.88	-				3.34 MG/KG	1.6	-			
RADIUM-228	0.50 PCI/G		UJ	0.50 PCI/G		U				0.50 PCI/G	.137	UJ			
THORIUM-228	0.70 PCI/G	.181	-	0.60 PCI/G		U				0.77 PCI/G	.248	J			
NEPTUNIUM-237	0.60 PCI/G		UJ	0.60 PCI/G		UJ				0.60 PCI/G		UJ			
PLUTONIUM-239/240	0.60 PCI/G		U	0.60 PCI/G		U				0.60 PCI/G		UJ			
PLUTONIUM-238	0.60 PCI/G		U	0.60 PCI/G		U				0.60 PCI/G		UJ			
STRONTIUM-90	0.50 PCI/G		U	0.50 PCI/G		U				0.50 PCI/G		U			
TECHNETIUM-99	1.00 PCI/G		U	1.00 PCI/G		U				1.00 PCI/G		U			
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		U				1.00 PCI/G		UJ			
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		U				0.20 PCI/G		UJ			

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	064102	064103	064105	064106	064107
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT		IT	IT/RSL	
WELL OR BORING NUMBER:	1618	1618	1618	1618	1618
DEPTH:	47.5-48.5	47.5-48.5	50-51.2	50-51.2	51.2-52.5
DATE COLLECTED:	29-JUL-91	29-JUL-91	30-JUL-91	30-JUL-91	30-JUL-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480307.07	480307.07
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378575.33	1378575.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	NONE-NA	NONE-NA	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	14100.00 MG/KG		-												
ANTIMONY	7.20 MG/KG		UJ												
ARSENIC	12.10 MG/KG		-												
BARIUM	93.80 MG/KG		J												
BERYLLIUM	0.89 MG/KG		-												
BORON	24.00 MG/KG		J												
CADMIUM	0.48 MG/KG		U												
CALCIUM	2600.00 MG/KG		J												
CHROMIUM	19.30 MG/KG		J												
COBALT	15.10 MG/KG		-												
COPPER	23.30 MG/KG		-												
CYANIDE	0.12 MG/KG		UJ												
IRON	32200.00 MG/KG		J												
LEAD	16.20 MG/KG		-												
MAGNESIUM	3780.00 MG/KG		-												
MANGANESE	684.00 MG/KG		J												
MERCURY	0.12 MG/KG		U												
MOLYBDENUM	14.70 MG/KG		-												
NICKEL	29.70 MG/KG		J												
POTASSIUM	901.00 MG/KG		-												
SELENIUM	0.48 MG/KG		U												
SILICON	514.00 MG/KG		J												
SILVER	2.40 MG/KG		U												
SODIUM	112.00 MG/KG		-												
THALLIUM	0.48 MG/KG		U												
VANADIUM	29.30 MG/KG		-												
ZINC	66.70 MG/KG		-												
PESTICIDES															

4,4'-DDD 19.00 UG/KG U
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

DRAFT
Page 9

SAMPLE NUMBER:	064102			064103			064105			064106			064107		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	19.00 UG/KG		U												
4,4'-DDT	19.00 UG/KG		U												
ALDRIN	9.70 UG/KG		U												
ALPHA-BHC	9.70 UG/KG		U												
ALPHA-CHLORDANE	97.00 UG/KG		U												
AROCLOR-1016	97.00 UG/KG		U												
AROCLOR-1221	97.00 UG/KG		U												
AROCLOR-1232	97.00 UG/KG		U												
AROCLOR-1242	97.00 UG/KG		U												
AROCLOR-1248	97.00 UG/KG		U												
AROCLOR-1254	190.00 UG/KG		U												
AROCLOR-1260	190.00 UG/KG		U												
BETA-BHC	9.70 UG/KG		U												
DELTA-BHC	9.70 UG/KG		U												
DIELDRIN	19.00 UG/KG		U												
ENDOSULFAN II	19.00 UG/KG		U												
ENDOSULFAN SULFATE	19.00 UG/KG		U												
ENDOSULFAN-I	9.70 UG/KG		U												
ENDRIN	19.00 UG/KG		U												
ENDRIN KETONE	19.00 UG/KG		U												
GAMMA-BHC (LINDANE)	9.70 UG/KG		U												
GAMMA-CHLORDANE	97.00 UG/KG		U												
HEPTACHLOR	9.70 UG/KG		U												
HEPTACHLOR EPOXIDE	9.70 UG/KG		U												
METHOXYCHLOR	97.00 UG/KG		U												
TOXAPHENE	190.00 UG/KG		U												
RADIONUCLIDES															
URANIUM-238							1.09 PCI/G	.2	-	1.09 PCI/G	.2	-			
URANIUM, TOTAL							4.76 MG/KG	3.12	J	4.76 MG/KG	3.12	J			
URANIUM-234							0.97 PCI/G	.19	-	0.97 PCI/G	.19	-			
THORIUM-230							1.76 PCI/G	.53	-	1.76 PCI/G	.53	-			
RADIUM-226							1.29 PCI/G	.16	J	1.29 PCI/G	.16	J			
LEAD-210							1.06 PCI/G	.5	J	1.06 PCI/G	.5	J			
POLONIUM-210							2.06 PCI/G	.86	J	2.06 PCI/G	.86	J			
URANIUM-235/236							0.60 PCI/G		U	0.60 PCI/G		U			
THORIUM-232							1.31 PCI/G	.45	-	1.31 PCI/G	.45	-			
THORIUM, TOTAL							11.80 MG/KG	.4	-	11.80 MG/KG	.4	-			
RADIUM-228							1.20 PCI/G	.25	J	1.20 PCI/G	.25	J			
THORIUM-228							1.10 PCI/G	.4	-	1.10 PCI/G	.4	-			
ACTINIUM-227							0.60 PCI/G		U	0.10 PCI/G		U			
PROTACTINIUM-231							2.10 PCI/G		UJ	2.10 PCI/G		UJ			
RADIUM-224							1.26 PCI/G	.18	J	1.26 PCI/G	.18	J			

000148

5704

SAMPLE NUMBER:	064102			064103			064105			064106			064107		
LAB:							IT			IT/RSL					
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	410.00 UG/KG		U												
1,2-DICHLOROBENZENE	410.00 UG/KG		U												
1,3-DICHLOROBENZENE	410.00 UG/KG		U												
1,4-DICHLOROBENZENE	410.00 UG/KG		U												
2,4,5-TRICHLOROPHENOL	2000.00 UG/KG		U												
2,4,6-TRICHLOROPHENOL	410.00 UG/KG		U												
2,4-DICHLOROPHENOL	410.00 UG/KG		U												
2,4-DIMETHYLPHENOL	410.00 UG/KG		U												
2,4-DINITROPHENOL	2000.00 UG/KG		U												
2,4-DINITROTOLUENE	410.00 UG/KG		U												
2,6-DINITROTOLUENE	410.00 UG/KG		U												
2-CHLORONAPHTHALENE	410.00 UG/KG		U												
2-CHLOROPHENOL	410.00 UG/KG		U												
2-METHYLNAPHTHALENE	410.00 UG/KG		U												
2-METHYLPHENOL	410.00 UG/KG		U												
2-NITROANILINE	2000.00 UG/KG		U												
2-NITROPHENOL	410.00 UG/KG		U												
3,3'-DICHLOROBENZIDINE	810.00 UG/KG		UJ												
3-NITROANILINE	2000.00 UG/KG		UJ												
4,6-DINITRO-2-METHYLPHENOL	2000.00 UG/KG		U												
4-BROMOPHENYL PHENYL ETHER	410.00 UG/KG		U												
4-CHLORO-3-METHYLPHENOL	410.00 UG/KG		U												
4-CHLOROPHENYLPHENYL ETHER	410.00 UG/KG		U												
4-METHYLPHENOL	410.00 UG/KG		U												
4-NITROANILINE	2000.00 UG/KG		UJ												
4-NITROPHENOL	2000.00 UG/KG		UJ												
ACENAPHTHENE	410.00 UG/KG		U												
ACENAPHTHYLENE	410.00 UG/KG		U												
ANTHRACENE	410.00 UG/KG		U												
BENZO(A)ANTHRACENE	410.00 UG/KG		U												
BENZO(A)PYRENE	410.00 UG/KG		U												
BENZO(B)FLUORANTHENE	410.00 UG/KG		U												
BENZO(G,H,I)PERYLENE	410.00 UG/KG		UJ												
BENZO(K)FLUORANTHENE	410.00 UG/KG		U												
BENZOIC ACID	2000.00 UG/KG		UJ												
BENZYL ALCOHOL	410.00 UG/KG		U												
BIS(2-CHLOROETHOXY)METHANE	410.00 UG/KG		U												
BIS(2-CHLOROETHYL)ETHER	410.00 UG/KG		U												
BIS(2-CHLOROISOPROPYL) ETHER	410.00 UG/KG		UJ												
BIS(2-ETHYLHEXYL)PHTHALATE	410.00 UG/KG		U												
BUTYL BENZYL PHTHALATE	410.00 UG/KG		U												
CHRYSENE	410.00 UG/KG		U												
DI-N-BUTYL PHTHALATE	410.00 UG/KG		U												
DI-N-OCTYL PHTHALATE	410.00 UG/KG		U												
DIBENZO(A,H)ANTHRACENE	410.00 UG/KG		U												

SAMPLE NUMBER:	064102			064103			064105			064106			064107		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIBENZOFURAN	410.00 UG/KG		U												
DIETHYL PHTHALATE	410.00 UG/KG		U												
DIMETHYL PHTHALATE	410.00 UG/KG		U												
FLUORANTHENE	410.00 UG/KG		U												
FLUORENE	410.00 UG/KG		U												
HEXACHLOROBENZENE	410.00 UG/KG		U												
HEXACHLOROBUTADIENE	410.00 UG/KG		U												
HEXACHLOROCYCLOPENTADIENE	410.00 UG/KG		U												
HEXACHLOROETHANE	410.00 UG/KG		UJ												
INDENO(1,2,3-CD)PYRENE	410.00 UG/KG		U												
ISOPHORONE	410.00 UG/KG		U												
N-NITROSO-DI-N-PROPYLAMINE	410.00 UG/KG		U												
N-NITROSODIPHENYLAMINE	410.00 UG/KG		U												
NAPHTHALENE	410.00 UG/KG		U												
NITROBENZENE	410.00 UG/KG		U												
P-CHLOROANILINE	410.00 UG/KG		UJ												
PENTACHLOROPHENOL	2000.00 UG/KG		U												
PHENANTHRENE	410.00 UG/KG		U												
PHENOL	410.00 UG/KG		U												
PYRENE	410.00 UG/KG		U												
TRIBUTYL PHOSPHATE	410.00 UG/KG		U												
VOLATILES															
1,1,1-TRICHLOROETHANE	6.00 UG/KG		U												
1,1,2,2-TETRACHLOROETHANE	6.00 UG/KG		U												
1,1,2-TRICHLOROETHANE	6.00 UG/KG		U												
1,1-DICHLOROETHANE	6.00 UG/KG		U												
1,1-DICHLOROETHENE	6.00 UG/KG		U												
1,2-DICHLOROETHANE	6.00 UG/KG		U												
1,2-DICHLOROETHENE (TOTAL)	6.00 UG/KG		U												
1,2-DICHLOROPROPANE	6.00 UG/KG		U												
2-BUTANONE	12.00 UG/KG		U												
2-HEXANONE	12.00 UG/KG		U												
4-METHYL-2-PENTANONE	2.00 UG/KG		J												
ACETONE	34.00 UG/KG		U												
BENZENE	6.00 UG/KG		U												
BROMODICHLOROMETHANE	6.00 UG/KG		U												
BROMOFORM	6.00 UG/KG		U												
BROMOMETHANE	12.00 UG/KG		U												
CARBON DISULFIDE	6.00 UG/KG		U												
CARBON TETRACHLORIDE	6.00 UG/KG		U												
CHLOROBENZENE	6.00 UG/KG		U												
CHLOROETHANE	12.00 UG/KG		U												
CHLOROFORM	6.00 UG/KG		U												

SAMPLE NUMBER:	064102			064103			064105			064106			064107		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROMETHANE	12.00 UG/KG		U												
CIS-1,3-DICHLOROPROPENE	6.00 UG/KG		U												
DIBROMOCHLOROMETHANE	6.00 UG/KG		U												
ETHYLBENZENE	6.00 UG/KG		U												
METHYLENE CHLORIDE	6.00 UG/KG		U												
STYRENE	6.00 UG/KG		U												
TETRACHLOROETHENE	6.00 UG/KG		U												
TOLUENE	6.00 UG/KG		U												
TRANS-1,3-DICHLOROPROPENE	6.00 UG/KG		U												
TRICHLOROETHENE	6.00 UG/KG		U												
VINYL ACETATE	12.00 UG/KG		U												
VINYL CHLORIDE	12.00 UG/KG		U												
XYLENES, TOTAL	6.00 UG/KG		U												

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	064112	064115	064116	064117	064123
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT	IT		IT
WELL OR BORING NUMBER:	1618	1618	1618	1618	1618
DEPTH:	67.5-70	70-71.2	70-71.2	71.2-72.5	87.5-90
DATE COLLECTED:	30-JUL-91	31-JUL-91	31-JUL-91	31-JUL-91	01-AUG-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480307.07	480307.07
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378575.33	1378575.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	7120.00 MG/KG		-										9330.00 MG/KG		-
ANTIMONY	7.70 MG/KG		UJ										7.10 MG/KG		UJ
ARSENIC	5.30 MG/KG		-										5.20 MG/KG		-
BARIUM	53.50 MG/KG		J										66.90 MG/KG		J
BERYLLIUM	0.51 MG/KG		U										0.66 MG/KG		-
CADMIUM	3.20 MG/KG		-										2.20 MG/KG		-
CALCIUM	86700.00 MG/KG		J										81700.00 MG/KG		J
CHROMIUM	22.10 MG/KG		J										24.90 MG/KG		J
COBALT	4.80 MG/KG		-										10.30 MG/KG		-
COPPER	17.70 MG/KG		-										22.20 MG/KG		-
CYANIDE	5.00 MG/KG		-										3.00 MG/KG		-
IRON	17600.00 MG/KG		J										23400.00 MG/KG		J
LEAD	12.00 MG/KG		-										9.30 MG/KG		-
MAGNESIUM	37800.00 MG/KG		-										27300.00 MG/KG		-
MANGANESE	235.00 MG/KG		J										462.00 MG/KG		J
MERCURY	0.13 MG/KG		J										0.11 MG/KG		J
MOLYBDENUM	10.50 MG/KG		-										20.20 MG/KG		-
NICKEL	17.80 MG/KG		J										28.60 MG/KG		J
POTASSIUM	830.00 MG/KG		-										1450.00 MG/KG		-
SELENIUM	0.51 MG/KG		U										16.10 MG/KG		-
SILVER	11.00 MG/KG		-										10.80 MG/KG		-
SODIUM	413.00 MG/KG		-										2730.00 MG/KG		-
THALLIUM	0.51 MG/KG		U										0.48 MG/KG		U
VANADIUM	24.10 MG/KG		-										27.40 MG/KG		-
ZINC	39.40 MG/KG		-										53.40 MG/KG		-
PESTICIDES															
4,4'-DDD	21.00 UG/KG		U										20.00 UG/KG		UR
4,4'-DDE	21.00 UG/KG		U										20.00 UG/KG		UR

000152

5204

SAMPLE NUMBER:	064112			064115			064116			064117			064123		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT	21.00 UG/KG		U										20.00 UG/KG		UR
ALDRIN	11.00 UG/KG		U										9.90 UG/KG		UR
ALPHA-BHC	11.00 UG/KG		U										9.90 UG/KG		UR
ALPHA-CHLORDANE	110.00 UG/KG		U										99.00 UG/KG		UR
AROCLOR-1016	110.00 UG/KG		U										99.00 UG/KG		UR
AROCLOR-1221	110.00 UG/KG		U										99.00 UG/KG		UR
AROCLOR-1232	110.00 UG/KG		U										99.00 UG/KG		UR
AROCLOR-1242	110.00 UG/KG		U										99.00 UG/KG		UR
AROCLOR-1248	110.00 UG/KG		U										99.00 UG/KG		UR
AROCLOR-1254	210.00 UG/KG		U										200.00 UG/KG		UR
AROCLOR-1260	210.00 UG/KG		U										200.00 UG/KG		UR
BETA-BHC	11.00 UG/KG		U										9.90 UG/KG		UR
DELTA-BHC	11.00 UG/KG		U										9.90 UG/KG		UR
DIELDRIN	21.00 UG/KG		U										20.00 UG/KG		UR
ENDOSULFAN II	21.00 UG/KG		U										20.00 UG/KG		UR
ENDOSULFAN SULFATE	21.00 UG/KG		U										20.00 UG/KG		UR
ENDOSULFAN-I	11.00 UG/KG		U										9.90 UG/KG		UR
ENDRIN	21.00 UG/KG		U										20.00 UG/KG		UR
ENDRIN KETONE	21.00 UG/KG		U										20.00 UG/KG		UR
GAMMA-BHC (LINDANE)	11.00 UG/KG		U										9.90 UG/KG		UR
GAMMA-CHLORDANE	110.00 UG/KG		U										99.00 UG/KG		UR
HEPTACHLOR	11.00 UG/KG		U										9.90 UG/KG		UR
HEPTACHLOR EPOXIDE	11.00 UG/KG		U										9.90 UG/KG		UR
METHOXYCHLOR	110.00 UG/KG		U										99.00 UG/KG		UR
TOXAPHENE	210.00 UG/KG		U										200.00 UG/KG		UR
RADIONUCLIDES															
URANIUM-238				3.75 PCI/G	.5	-	3.75 PCI/G	.5	-						
URANIUM, TOTAL				10.30 MG/KG	3.3	J	10.30 MG/KG	3.3	J						
URANIUM-234				3.59 PCI/G	.48	-	3.59 MG/KG	.48	-						
THORIUM-230				1.27 PCI/G	.44	J	1.27 PCI/G	.44	J						
RADIUM-226				0.75 PCI/G	.13	J	0.75 PCI/G	.13	J						
LEAD-210				0.73 PCI/G	.47	J	0.73 PCI/G	.47	J						
POLONIUM-210				2.37 PCI/G	1.32	-	2.37 PCI/G	1.32	-						
URANIUM-235/236				0.60 PCI/G		U	0.60 PCI/G		U						
THORIUM-232				0.76 PCI/G	.33	J	0.76 PCI/G	.33	J						
THORIUM, TOTAL				6.81 MG/KG	3.01	J	6.81 MG/KG	3.01	J						
RADIUM-228				0.94 PCI/G	.22	J	0.94 PCI/G	.22	J						
THORIUM-228				1.49 PCI/G	.48	J	1.49 PCI/G	.48	J						
ACTINIUM-227				0.60 PCI/G		UJ	0.60 PCI/G		UJ						
PROTACTINIUM-231				1.60 PCI/G		UJ	1.60 PCI/G		UJ						
RADIUM-224				0.98 PCI/G	.16	J	0.98 PCI/G	.16	J						

SEMIVOLATILES

1,2,4-TRICHLOROBENZENE 430.00 UG/KG U 410.00 UG/KG U

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

DRAFT
Page 15

SAMPLE NUMBER:	064112	064115	064116	064117	064123
LAB:	IT				IT
SUFFIX/FILTERFLAG:	NONE-NA	-	-	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2-DICHLOROBENZENE	430.00 UG/KG		U										410.00 UG/KG		U
1,3-DICHLOROBENZENE	430.00 UG/KG		U										410.00 UG/KG		U
1,4-DICHLOROBENZENE	430.00 UG/KG		U										410.00 UG/KG		U
2,4,5-TRICHLOROPHENOL	2100.00 UG/KG		U										2000.00 UG/KG		U
2,4,6-TRICHLOROPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
2,4-DICHLOROPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
2,4-DIMETHYLPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
2,4-DINITROPHENOL	2100.00 UG/KG		U										2000.00 UG/KG		U
2,4-DINITROTOLUENE	430.00 UG/KG		U										410.00 UG/KG		U
2,6-DINITROTOLUENE	430.00 UG/KG		U										410.00 UG/KG		U
2-CHLORONAPHTHALENE	430.00 UG/KG		U										410.00 UG/KG		U
2-CHLOROPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
2-METHYLNAPHTHALENE	430.00 UG/KG		U										410.00 UG/KG		U
2-METHYLPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
2-NITROANILINE	2100.00 UG/KG		UJ										2000.00 UG/KG		UJ
2-NITROPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
3,3'-DICHLOROBENZIDINE	860.00 UG/KG		UJ										820.00 UG/KG		UJ
3-NITROANILINE	2100.00 UG/KG		UJ										2000.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL	2100.00 UG/KG		U										2000.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER	430.00 UG/KG		U										410.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER	430.00 UG/KG		U										410.00 UG/KG		U
4-METHYLPHENOL	430.00 UG/KG		U										410.00 UG/KG		U
4-NITROANILINE	2100.00 UG/KG		UJ										2000.00 UG/KG		UJ
4-NITROPHENOL	2100.00 UG/KG		UJ										2000.00 UG/KG		UJ
ACENAPHTHENE	430.00 UG/KG		U										410.00 UG/KG		U
ACENAPHTHYLENE	430.00 UG/KG		U										410.00 UG/KG		U
ANTHRACENE	430.00 UG/KG		U										410.00 UG/KG		U
BENZO(A)ANTHRACENE	430.00 UG/KG		U										410.00 UG/KG		U
BENZO(A)PYRENE	430.00 UG/KG		U										410.00 UG/KG		U
BENZO(B)FLUORANTHENE	430.00 UG/KG		U										410.00 UG/KG		U
BENZO(G,H,I)PERYLENE	430.00 UG/KG		U										410.00 UG/KG		U
BENZO(K)FLUORANTHENE	430.00 UG/KG		U										410.00 UG/KG		U
BENZOIC ACID	85.00 UG/KG		UJ										70.00 UG/KG		UJ
BENZYL ALCOHOL	430.00 UG/KG		U										410.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE	430.00 UG/KG		U										410.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER	430.00 UG/KG		U										410.00 UG/KG		U
BIS(2-CHLOROISOPROPYL) ETHER	430.00 UG/KG		U										410.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE	430.00 UG/KG		U										120.00 UG/KG		J
BUTYL BENZYL PHTHALATE	430.00 UG/KG		U										410.00 UG/KG		U
CHRYSENE	430.00 UG/KG		U										410.00 UG/KG		U

000154

5704

SAMPLE NUMBER:	064112			064115			064116			064117			064123		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DI-N-BUTYL PHTHALATE	430.00 UG/KG		U										410.00 UG/KG		U
DI-N-OCTYL PHTHALATE	430.00 UG/KG		U										410.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE	430.00 UG/KG		UJ										410.00 UG/KG		UJ
DIBENZOFURAN	430.00 UG/KG		U										410.00 UG/KG		U
DIETHYL PHTHALATE	430.00 UG/KG		U										410.00 UG/KG		U
DIMETHYL PHTHALATE	430.00 UG/KG		U										410.00 UG/KG		U
FLUORANTHENE	430.00 UG/KG		U										410.00 UG/KG		U
FLUORENE	430.00 UG/KG		U										410.00 UG/KG		U
HEXACHLOROBENZENE	430.00 UG/KG		U										410.00 UG/KG		U
HEXACHLOROBUTADIENE	430.00 UG/KG		U										410.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE	430.00 UG/KG		U										410.00 UG/KG		U
HEXACHLOROETHANE	430.00 UG/KG		UJ										410.00 UG/KG		UJ
INDENO(1,2,3-CD)PYRENE	430.00 UG/KG		U										410.00 UG/KG		U
ISOPHORONE	430.00 UG/KG		U										410.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE	430.00 UG/KG		U										410.00 UG/KG		U
N-NITROSODIPHENYLAMINE	430.00 UG/KG		U										410.00 UG/KG		U
NAPHTHALENE	430.00 UG/KG		UJ										410.00 UG/KG		UJ
NITROBENZENE	430.00 UG/KG		U										410.00 UG/KG		U
P-CHLOROANILINE	430.00 UG/KG		UJ										410.00 UG/KG		UJ
PENTACHLOROPHENOL	2100.00 UG/KG		U										2000.00 UG/KG		U
PHENANTHRENE	430.00 UG/KG		U										410.00 UG/KG		U
PHENOL	430.00 UG/KG		U										410.00 UG/KG		U
PYRENE	430.00 UG/KG		U										410.00 UG/KG		U
TRIBUTYL PHOSPHATE	430.00 UG/KG		U										410.00 UG/KG		U
VOLATILES															
1,1,1-TRICHLOROETHANE	6.00 UG/KG		U										6.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE	6.00 UG/KG		U										6.00 UG/KG		U
1,1,2-TRICHLOROETHANE	6.00 UG/KG		U										6.00 UG/KG		U
1,1-DICHLOROETHANE	6.00 UG/KG		U										6.00 UG/KG		U
1,1-DICHLOROETHENE	6.00 UG/KG		U										6.00 UG/KG		U
1,2-DICHLOROETHANE	6.00 UG/KG		U										6.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)	6.00 UG/KG		U										6.00 UG/KG		U
1,2-DICHLOROPROPANE	6.00 UG/KG		U										6.00 UG/KG		U
2-BUTANONE	10.00 UG/KG		U										12.00 UG/KG		UJ
2-HEXANONE	13.00 UG/KG		UJ										12.00 UG/KG		UJ
4-METHYL-2-PENTANONE	13.00 UG/KG		U										12.00 UG/KG		U
ACETONE	22.00 UG/KG		J										12.00 UG/KG		UJ
BENZENE	6.00 UG/KG		U										6.00 UG/KG		U
BROMODICHLOROMETHANE	6.00 UG/KG		U										6.00 UG/KG		U
BROMOFORM	6.00 UG/KG		R										6.00 UG/KG		U
BROMOMETHANE	13.00 UG/KG		U										12.00 UG/KG		U
CARBON DISULFIDE	6.00 UG/KG		U										6.00 UG/KG		U
CARBON TETRACHLORIDE	6.00 UG/KG		U										6.00 UG/KG		U

SAMPLE NUMBER:	064112			064115			064116			064117			064123		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROBENZENE	6.00 UG/KG		U										6.00 UG/KG		U
CHLOROETHANE	13.00 UG/KG		U										12.00 UG/KG		U
CHLOROFORM	6.00 UG/KG		U										6.00 UG/KG		U
CHLOROMETHANE	13.00 UG/KG		UJ										12.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE	6.00 UG/KG		U										6.00 UG/KG		U
DIBROMOCHLOROMETHANE	6.00 UG/KG		U										6.00 UG/KG		U
ETHYLBENZENE	6.00 UG/KG		U										6.00 UG/KG		U
METHYLENE CHLORIDE	6.00 UG/KG		U										5.00 UG/KG		U
STYRENE	6.00 UG/KG		U										6.00 UG/KG		U
TETRACHLOROETHENE	6.00 UG/KG		U										6.00 UG/KG		U
TOLUENE	2.00 UG/KG		U										2.00 UG/KG		U
TRANS-1,3-DICHLOROPROPENE	6.00 UG/KG		U										6.00 UG/KG		U
TRICHLOROETHENE	6.00 UG/KG		U										6.00 UG/KG		U
VINYL ACETATE	13.00 UG/KG		U										12.00 UG/KG		U
VINYL CHLORIDE	13.00 UG/KG		U										12.00 UG/KG		U
XYLENES, TOTAL	6.00 UG/KG		U										6.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	064158	064125	064126	064127	064134
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	INORGANICS-EPM	IT	IT		IT
WELL OR BORING NUMBER:	1618	1618	1618	1618	1618
DEPTH:	85-90	90-91.2	90-91.2	91.2-92.5	105-107.
DATE COLLECTED:	13-AUG-93	01-AUG-91	01-AUG-91	01-AUG-91	02-AUG-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480307.07	480307.07
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378575.33	1378575.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM													10000.00 MG/KG		-
ANTIMONY													7.20 MG/KG		UJ
ARSENIC													3.00 MG/KG		-
BARIUM													75.70 MG/KG		J
BERYLLIUM													0.63 MG/KG		-
CADMIUM													1.60 MG/KG		-
CALCIUM													71400.00 MG/KG		J
CHROMIUM													25.20 MG/KG		J
COBALT													12.00 MG/KG		-
COPPER													22.40 MG/KG		-
CYANIDE													3.00 MG/KG		-
IRON													29800.00 MG/KG		J
LEAD													10.50 MG/KG		-
MAGNESIUM													23700.00 MG/KG		-
MANGANESE													399.00 MG/KG		J
MERCURY													0.11 MG/KG		J
MOLYBDENUM													29.90 MG/KG		-
NICKEL													29.00 MG/KG		J
POTASSIUM													1560.00 MG/KG		-
SELENIUM													0.49 MG/KG		U
SILVER													9.60 MG/KG		-
SODIUM													2280.00 MG/KG		-
THALLIUM													0.49 MG/KG		U
VANADIUM													27.10 MG/KG		-
ZINC													61.00 MG/KG		-
PESTICIDES															
4,4'-DDD													20.00 UG/KG		U
4,4'-DDE													20.00 UG/KG		U

000157

SAMPLE NUMBER:	064158			064125			064126			064127			064134		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT													20.00 UG/KG		U
ALDRIN													10.00 UG/KG		U
ALPHA-BHC													10.00 UG/KG		U
ALPHA-CHLORDANE													100.00 UG/KG		U
AROCLOR-1016													100.00 UG/KG		U
AROCLOR-1221													100.00 UG/KG		U
AROCLOR-1232													100.00 UG/KG		U
AROCLOR-1242													100.00 UG/KG		U
AROCLOR-1248													100.00 UG/KG		U
AROCLOR-1254													200.00 UG/KG		U
AROCLOR-1260													200.00 UG/KG		U
BETA-BHC													10.00 UG/KG		U
DELTA-BHC													10.00 UG/KG		U
DIELDRIN													20.00 UG/KG		U
ENDOSULFAN II													20.00 UG/KG		U
ENDOSULFAN SULFATE													20.00 UG/KG		U
ENDOSULFAN-I													10.00 UG/KG		U
ENDRIN													20.00 UG/KG		U
ENDRIN KETONE													20.00 UG/KG		U
GAMMA-BHC (LINDANE)													10.00 UG/KG		U
GAMMA-CHLORDANE													100.00 UG/KG		U
HEPTACHLOR													10.00 UG/KG		U
HEPTACHLOR EPOXIDE													10.00 UG/KG		U
METHOXYCHLOR													100.00 UG/KG		U
TOXAPHENE													200.00 UG/KG		U
RADIONUCLIDES															
URANIUM-238				33.50 PCI/G	4.4	-	33.50 PCI/G	4.4	-						
URANIUM, TOTAL	110.00 MG/KG		NV	79.40 MG/KG	9.1	J	79.40 MG/KG	9.1	J						
URANIUM-234				34.60 PCI/G	4.5	-	34.60 PCI/G	4.5	-						
THORIUM-230				1.82 PCI/G	.51	J	1.82 PCI/G	.51	J						
RADIUM-226				0.97 PCI/G	.13	J	0.97 PCI/G	.13	J						
LEAD-210				6.90 PCI/G		UJ	6.90 PCI/G		UJ						
POLONIUM-210				1.26 PCI/G	.89	-	1.26 PCI/G	.89	-						
URANIUM-235/236				3.17 PCI/G	.74	-	3.17 PCI/G	.74	-						
THORIUM-232				1.34 PCI/G	.41	J	1.34 PCI/G	.41	J						
THORIUM, TOTAL				12.10 MG/KG	3.7	J	12.10 MG/KG	3.7	J						
RADIUM-228				0.84 PCI/G	.18	J	0.84 PCI/G	.18	J						
THORIUM-228				1.68 PCI/G	.48	J	1.68 PCI/G	.48	J						
ACTINIUM-227				0.56 PCI/G	.27	J	0.56 PCI/G	.27	J						
PROTACTINIUM-231				1.80 PCI/G		UJ	1.80 PCI/G		UJ						
RADIUM-224				0.97 PCI/G	.15	J	0.97 PCI/G	.15	J						

000158

B704

SEMIVOLATILES

1,2,4-TRICHLOROBENZENE 410.00 UG/KG U
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

DRAFT
Page 20

SAMPLE NUMBER:	064158			064125			064126			064127			064134		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2-DICHLOROBENZENE													410.00 UG/KG		U
1,3-DICHLOROBENZENE													410.00 UG/KG		U
1,4-DICHLOROBENZENE													410.00 UG/KG		U
2,4,5-TRICHLOROPHENOL													2000.00 UG/KG		U
2,4,6-TRICHLOROPHENOL													430.00 UG/KG		U
2,4-DICHLOROPHENOL													410.00 UG/KG		U
2,4-DIMETHYLPHENOL													410.00 UG/KG		U
2,4-DINITROPHENOL													2000.00 UG/KG		U
2,4-DINITROTOLUENE													410.00 UG/KG		U
2,6-DINITROTOLUENE													410.00 UG/KG		U
2-CHLORONAPHTHALENE													410.00 UG/KG		U
2-CHLOROPHENOL													410.00 UG/KG		U
2-METHYLNAPHTHALENE													410.00 UG/KG		U
2-METHYLPHENOL													410.00 UG/KG		U
2-NITROANILINE													2000.00 UG/KG		UJ
2-NITROPHENOL													410.00 UG/KG		U
3,3'-DICHLOROBENZIDINE													810.00 UG/KG		UJ
3-NITROANILINE													2000.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL													2000.00 UG/KG		U
4-BROMOPHENYL PHENYL ETHER													410.00 UG/KG		U
4-CHLORO-3-METHYLPHENOL													410.00 UG/KG		U
4-CHLOROPHENYLPHENYL ETHER													410.00 UG/KG		U
4-METHYLPHENOL													410.00 UG/KG		U
4-NITROANILINE													2000.00 UG/KG		UJ
4-NITROPHENOL													2000.00 UG/KG		UJ
ACENAPHTHENE													410.00 UG/KG		U
ACENAPHTHYLENE													410.00 UG/KG		U
ANTHRACENE													410.00 UG/KG		U
BENZO(A)ANTHRACENE													410.00 UG/KG		U
BENZO(A)PYRENE													410.00 UG/KG		U
BENZO(B)FLUORANTHENE													410.00 UG/KG		U
BENZO(G,H,I)PERYLENE													410.00 UG/KG		U
BENZO(K)FLUORANTHENE													410.00 UG/KG		U
BENZOIC ACID													49.00 UG/KG		U
BENZYL ALCOHOL													410.00 UG/KG		U
BIS(2-CHLOROETHOXY)METHANE													410.00 UG/KG		U
BIS(2-CHLOROETHYL)ETHER													400.00 UG/KG		UR
BIS(2-CHLOROISOPROPYL) ETHER													410.00 UG/KG		U
BIS(2-ETHYLHEXYL)PHTHALATE													400.00 UG/KG		UR
BUTYL BENZYL PHTHALATE													410.00 UG/KG		U
CHRYSENE													410.00 UG/KG		U

000159

SAMPLE NUMBER:	064158			064125			064126			064127			064134		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DI-N-BUTYL PHTHALATE													410.00 UG/KG		U
DI-N-OCTYL PHTHALATE													410.00 UG/KG		U
DIBENZO(A,H)ANTHRACENE													410.00 UG/KG		UJ
DIBENZOFURAN													410.00 UG/KG		U
DIETHYL PHTHALATE													410.00 UG/KG		U
DIMETHYL PHTHALATE													410.00 UG/KG		U
FLUORANTHENE													410.00 UG/KG		U
FLUORENE													410.00 UG/KG		U
HEXACHLOROBENZENE													410.00 UG/KG		U
HEXACHLOROBUTADIENE													410.00 UG/KG		U
HEXACHLOROCYCLOPENTADIENE													410.00 UG/KG		U
HEXACHLOROETHANE													410.00 UG/KG		UJ
INDENO(1,2,3-CD)PYRENE													410.00 UG/KG		U
ISOPHORONE													410.00 UG/KG		U
N-NITROSO-DI-N-PROPYLAMINE													410.00 UG/KG		U
N-NITROSODIPHENYLAMINE													410.00 UG/KG		U
NAPHTHALENE													410.00 UG/KG		UJ
NITROBENZENE													410.00 UG/KG		U
P-CHLOROANILINE													410.00 UG/KG		UJ
PENTACHLOROPHENOL													2000.00 UG/KG		U
PHENANTHRENE													410.00 UG/KG		U
PHENOL													410.00 UG/KG		U
PYRENE													410.00 UG/KG		U
TRIBUTYL PHOSPHATE													400.00 UG/KG		UR
VOLATILES															
1,1,1-TRICHLOROETHANE													6.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE													6.00 UG/KG		U
1,1,2-TRICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHENE													6.00 UG/KG		U
1,2-DICHLOROETHANE													6.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)													6.00 UG/KG		U
1,2-DICHLOROPROPANE													6.00 UG/KG		U
2-BUTANONE													12.00 UG/KG		UJ
2-HEXANONE													12.00 UG/KG		UJ
4-METHYL-2-PENTANONE													12.00 UG/KG		U
ACETONE													14.00 UG/KG		UJ
BENZENE													6.00 UG/KG		U
BROMODICHLOROMETHANE													6.00 UG/KG		U
BROMOFORM													6.00 UG/KG		U
BROMOMETHANE													12.00 UG/KG		U
CARBON DISULFIDE													6.00 UG/KG		U
CARBON TETRACHLORIDE													6.00 UG/KG		U

SAMPLE NUMBER:	064158			064125			064126			064127			064134		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROBENZENE													6.00 UG/KG		U
CHLOROETHANE													12.00 UG/KG		U
CHLOROFORM													6.00 UG/KG		U
CHLOROMETHANE													12.00 UG/KG		UJ
CIS-1,3-DICHLOROPROPENE													6.00 UG/KG		U
DIBROMOCHLOROMETHANE													6.00 UG/KG		U
ETHYLBENZENE													6.00 UG/KG		U
METHYLENE CHLORIDE													4.00 UG/KG		U
STYRENE													6.00 UG/KG		U
TETRACHLOROETHENE													6.00 UG/KG		U
TOLUENE													3.00 UG/KG		U
TRANS-1,3-DICHLOROPROPENE													6.00 UG/KG		U
TRICHLOROETHENE													6.00 UG/KG		U
VINYL ACETATE													12.00 UG/KG		U
VINYL CHLORIDE													12.00 UG/KG		U
XYLENES, TOTAL													6.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	064136	064137	064138	064159	064146
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT		INORGANICS-EPM	IT
WELL OR BORING NUMBER:	1618	1618	1618	1618	1618
DEPTH:	105-107.	107.-108.	108.-110	100-105	125-127.
DATE COLLECTED:	02-AUG-91	02-AUG-91	02-AUG-91	13-AUG-93	03-AUG-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480307.07	480307.07
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378575.33	1378575.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	-	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM													8800.00 MG/KG		-
ANTIMONY													7.40 MG/KG		UJ
ARSENIC													3.50 MG/KG		-
BARIUM													49.00 MG/KG		J
BERYLLIUM													0.65 MG/KG		-
CADMIUM													3.00 MG/KG		-
CALCIUM													91900.00 MG/KG		J
CHROMIUM													24.90 MG/KG		J
COBALT													9.00 MG/KG		-
COPPER													21.40 MG/KG		-
CYANIDE													0.12 MG/KG		U
IRON													18500.00 MG/KG		J
LEAD													8.90 MG/KG		-
MAGNESIUM													33200.00 MG/KG		J
MANGANESE													377.00 MG/KG		J
MERCURY													0.12 MG/KG		U
MOLYBDENUM													9.70 MG/KG		-
NICKEL													24.20 MG/KG		J
POTASSIUM													1890.00 MG/KG		-
SELENIUM													0.56 MG/KG		J
SILVER													11.60 MG/KG		-
SODIUM													688.00 MG/KG		-
THALLIUM													0.49 MG/KG		U
VANADIUM													26.50 MG/KG		-
ZINC													50.00 MG/KG		-
PESTICIDES															
4,4'-DDD													20.00 UG/KG		UJ
4,4'-DDE													20.00 UG/KG		UJ

000162

5704

SAMPLE NUMBER:	064136			064137			064138			064159			064146		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT													20.00 UG/KG		UJ
ALDRIN													10.00 UG/KG		UJ
ALPHA-BHC													10.00 UG/KG		UJ
ALPHA-CHLORDANE													100.00 UG/KG		UJ
AROCLOR-1016													100.00 UG/KG		UJ
AROCLOR-1221													100.00 UG/KG		UJ
AROCLOR-1232													100.00 UG/KG		UJ
AROCLOR-1242													100.00 UG/KG		UJ
AROCLOR-1248													100.00 UG/KG		UJ
AROCLOR-1254													200.00 UG/KG		UJ
AROCLOR-1260													200.00 UG/KG		UJ
BETA-BHC													10.00 UG/KG		UJ
DELTA-BHC													10.00 UG/KG		UJ
DIELDRIN													20.00 UG/KG		UJ
ENDOSULFAN II													20.00 UG/KG		UJ
ENDOSULFAN SULFATE													20.00 UG/KG		UJ
ENDOSULFAN-I													10.00 UG/KG		UJ
ENDRIN													20.00 UG/KG		UJ
ENDRIN KETONE													20.00 UG/KG		UJ
GAMMA-BHC (LINDANE)													10.00 UG/KG		UJ
GAMMA-CHLORDANE													100.00 UG/KG		UJ
HEPTACHLOR													10.00 UG/KG		UJ
HEPTACHLOR EPOXIDE													10.00 UG/KG		UJ
METHOXYCHLOR													100.00 UG/KG		UJ
TOXAPHENE													200.00 UG/KG		UJ
RADIONUCLIDES															
URANIUM-238	53.40 PCI/G	6.6	-	53.40 PCI/G	6.6	-									
URANIUM, TOTAL	110.00 MG/KG	12	J	110.00 MG/KG	12	J				100.00 MG/KG		NV			
URANIUM-234	35.90 PCI/G	4.6	-	35.90 PCI/G	4.6	-									
THORIUM-230	1.78 PCI/G	.5	J	1.78 PCI/G	.5	J									
RADIUM-226	0.90 PCI/G	.13	J	0.90 PCI/G	.13	J									
LEAD-210	0.63 PCI/G	.57	J	0.63 PCI/G	.57	J									
POLONIUM-210	0.94 PCI/G	.699	-	0.94 PCI/G	.699	-									
URANIUM-235/236	2.92 PCI/G	.7	-	2.92 PCI/G	.7	-									
THORIUM-232	1.00 PCI/G		UJ	1.00 PCI/G		UJ									
THORIUM, TOTAL	7.22 MG/KG	2.83	J	7.22 MG/KG	2.83	J									
RADIUM-228	0.71 PCI/G	.19	J	0.71 PCI/G	.19	J									
THORIUM-228	1.30 PCI/G	.43	J	1.30 PCI/G	.43	J									
ACTINIUM-227	1.33 PCI/G	.42	J	1.33 PCI/G	.42	J									
PROTACTINIUM-231	1.80 PCI/G		UJ	1.80 PCI/G		UJ									
RADIUM-224	0.91 PCI/G	.14	J	0.91 PCI/G	.14	J									

000163

SEMIVOLATILES

1,2,4-TRICHLOROBENZENE 410.00 UG/KG UJ

SAMPLE NUMBER:	064136			064137			064138			064159			064146		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2-DICHLOROBENZENE													410.00 UG/KG		UJ
1,3-DICHLOROBENZENE													410.00 UG/KG		UJ
1,4-DICHLOROBENZENE													410.00 UG/KG		UJ
2,4,5-TRICHLOROPHENOL													2000.00 UG/KG		UJ
2,4,6-TRICHLOROPHENOL													410.00 UG/KG		UJ
2,4-DICHLOROPHENOL													410.00 UG/KG		UJ
2,4-DIMETHYLPHENOL													410.00 UG/KG		UJ
2,4-DINITROPHENOL													2000.00 UG/KG		UJ
2,4-DINITROTOLUENE													410.00 UG/KG		UJ
2,6-DINITROTOLUENE													410.00 UG/KG		UJ
2-CHLORONAPHTHALENE													410.00 UG/KG		UJ
2-CHLOROPHENOL													410.00 UG/KG		UJ
2-METHYLNAPHTHALENE													410.00 UG/KG		UJ
2-METHYLPHENOL													410.00 UG/KG		UJ
2-NITROANILINE													2000.00 UG/KG		UJ
2-NITROPHENOL													410.00 UG/KG		UJ
3,3'-DICHLOROBENZIDINE													820.00 UG/KG		UJ
3-NITROANILINE													2000.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL													2000.00 UG/KG		UJ
4-BROMOPHENYL PHENYL ETHER													410.00 UG/KG		UJ
4-CHLORO-3-METHYLPHENOL													410.00 UG/KG		UJ
4-CHLOROPHENYLPHENYL ETHER													410.00 UG/KG		UJ
4-METHYLPHENOL													410.00 UG/KG		UJ
4-NITROANILINE													2000.00 UG/KG		UJ
4-NITROPHENOL													2000.00 UG/KG		UJ
ACENAPHTHENE													410.00 UG/KG		UJ
ACENAPHTHYLENE													410.00 UG/KG		UJ
ANTHRACENE													410.00 UG/KG		UJ
BENZO(A)ANTHRACENE													410.00 UG/KG		UJ
BENZO(A)PYRENE													410.00 UG/KG		UJ
BENZO(B)FLUORANTHENE													410.00 UG/KG		UJ
BENZO(G,H,I)PERYLENE													410.00 UG/KG		UJ
BENZO(K)FLUORANTHENE													410.00 UG/KG		UJ
BENZOIC ACID													2000.00 UG/KG		UJ
BENZYL ALCOHOL													410.00 UG/KG		UJ
BIS(2-CHLOROETHOXY)METHANE													410.00 UG/KG		UJ
BIS(2-CHLOROETHYL)ETHER													410.00 UG/KG		UJ
BIS(2-CHLOROISOPROPYL) ETHER													410.00 UG/KG		UJ
BIS(2-ETHYLHEXYL)PHTHALATE													410.00 UG/KG		UJ
BUTYL BENZYL PHTHALATE													410.00 UG/KG		UJ
CHRYSENE													410.00 UG/KG		UJ

000164

SAMPLE NUMBER:	064136			064137			064138			064159			064146		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DI-N-BUTYL PHTHALATE													410.00 UG/KG		UJ
DI-N-OCTYL PHTHALATE													410.00 UG/KG		UJ
DIBENZO(A,H)ANTHRACENE													410.00 UG/KG		UJ
DIBENZOFURAN													410.00 UG/KG		UJ
DIETHYL PHTHALATE													410.00 UG/KG		UJ
DIMETHYL PHTHALATE													410.00 UG/KG		UJ
FLUORANTHENE													410.00 UG/KG		UJ
FLUORENE													410.00 UG/KG		UJ
HEXACHLOROBENZENE													410.00 UG/KG		UJ
HEXACHLOROBUTADIENE													410.00 UG/KG		UJ
HEXACHLOROCYCLOPENTADIENE													410.00 UG/KG		UJ
HEXACHLOROETHANE													410.00 UG/KG		UJ
INDENO(1,2,3-CD)PYRENE													410.00 UG/KG		UJ
ISOPHORONE													410.00 UG/KG		UJ
N-NITROSO-DI-N-PROPYLAMINE													410.00 UG/KG		UJ
N-NITROSODIPHENYLAMINE													410.00 UG/KG		UJ
NAPHTHALENE													410.00 UG/KG		UJ
NITROBENZENE													410.00 UG/KG		UJ
P-CHLOROANILINE													410.00 UG/KG		UJ
PENTACHLOROPHENOL													410.00 UG/KG		UR
PHENANTHRENE													2000.00 UG/KG		UJ
PHENOL													410.00 UG/KG		UJ
PYRENE													410.00 UG/KG		UJ
TRIBUTYL PHOSPHATE													410.00 UG/KG		UJ
VOLATILES															
1,1,1-TRICHLOROETHANE													6.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE													6.00 UG/KG		U
1,1,2-TRICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHENE													6.00 UG/KG		U
1,2-DICHLOROETHANE													6.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)													6.00 UG/KG		U
1,2-DICHLOROPROPANE													6.00 UG/KG		U
2-BUTANONE													12.00 UG/KG		U
2-HEXANONE													12.00 UG/KG		UJ
4-METHYL-2-PENTANONE													12.00 UG/KG		U
ACETONE													14.00 UG/KG		U
BENZENE													6.00 UG/KG		U
BROMODICHLOROMETHANE													6.00 UG/KG		U
BROMOFORM													6.00 UG/KG		UJ
BROMOMETHANE													12.00 UG/KG		U
CARBON DISULFIDE													6.00 UG/KG		U
CARBON TETRACHLORIDE													6.00 UG/KG		U

000165

SAMPLE NUMBER:	064136			064137			064138			064159			064146		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROBENZENE													6.00 UG/KG		U
CHLOROETHANE													12.00 UG/KG		U
CHLOROFORM													6.00 UG/KG		U
CHLOROMETHANE													12.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE													6.00 UG/KG		U
DIBROMOCHLOROMETHANE													6.00 UG/KG		U
ETHYLBENZENE													6.00 UG/KG		U
METHYLENE CHLORIDE													25.00 UG/KG		U
STYRENE													6.00 UG/KG		U
TETRACHLOROETHENE													6.00 UG/KG		U
TOLUENE													6.00 UG/KG		U
TRANS-1,3-DICHLOROPROPENE													6.00 UG/KG		U
TRICHLOROETHENE													6.00 UG/KG		U
VINYL ACETATE													12.00 UG/KG		U
VINYL CHLORIDE													12.00 UG/KG		U
XYLENES, TOTAL													6.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	064147	064148	064150	064067	064068
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:		IT		IT	
WELL OR BORING NUMBER:	1618	1618	1618	1619	1619
DEPTH:	125-127.	127.-128.	128.-130	57.5-60	57.5-60
DATE COLLECTED:	03-AUG-91	03-AUG-91	03-AUG-91	20-JUL-91	20-JUL-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480412.98	480412.98
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378593.22	1378593.22
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-NA	-	NONE-NA	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM										7930.00 MG/KG		-			
ANTIMONY										26.50 MG/KG		J			
ARSENIC										4.50 MG/KG		-			
BARIUM										65.70 MG/KG		-			
BERYLLIUM										0.82 MG/KG		-			
CADMIUM										4.10 MG/KG		J			
CALCIUM										96000.00 MG/KG		-			
CHROMIUM										28.50 MG/KG		-			
COBALT										15.30 MG/KG		-			
COPPER										23.50 MG/KG		-			
CYANIDE										0.12 MG/KG		U			
IRON										21000.00 MG/KG		-			
LEAD										8.40 MG/KG		-			
MAGNESIUM										31900.00 MG/KG		-			
MANGANESE										590.00 MG/KG		-			
MERCURY										0.12 MG/KG		UJ			
MOLYBDENUM										13.10 MG/KG		-			
NICKEL										30.60 MG/KG		-			
POTASSIUM										1000.00 MG/KG		-			
SELENIUM										0.46 MG/KG		U			
SILVER										15.20 MG/KG		-			
SODIUM										151.00 MG/KG		-			
THALLIUM										0.46 MG/KG		U			
VANADIUM										27.90 MG/KG		-			
ZINC										47.90 MG/KG		-			
PESTICIDES															
4,4'-DDD										19.00 UG/KG		U			
4,4'-DDE										19.00 UG/KG		U			

000167

SAMPLE NUMBER:	064147			064148			064150			064067			064068		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT										19.00 UG/KG		U			
ALDRIN										9.50 UG/KG		U			
ALPHA-BHC										9.50 UG/KG		U			
ALPHA-CHLORDANE										95.00 UG/KG		U			
AROCLOR-1016										95.00 UG/KG		U			
AROCLOR-1221										95.00 UG/KG		U			
AROCLOR-1232										95.00 UG/KG		U			
AROCLOR-1242										95.00 UG/KG		U			
AROCLOR-1248										95.00 UG/KG		U			
AROCLOR-1254										190.00 UG/KG		U			
AROCLOR-1260										190.00 UG/KG		U			
BETA-BHC										9.50 UG/KG		U			
DELTA-BHC										9.50 UG/KG		U			
DIELDRIN										19.00 UG/KG		U			
ENDOSULFAN II										19.00 UG/KG		U			
ENDOSULFAN SULFATE										19.00 UG/KG		U			
ENDOSULFAN-I										9.50 UG/KG		U			
ENDRIN										19.00 UG/KG		U			
ENDRIN KETONE										19.00 UG/KG		U			
GAMMA-BHC (LINDANE)										9.50 UG/KG		U			
GAMMA-CHLORDANE										95.00 UG/KG		U			
HEPTACHLOR										9.50 UG/KG		U			
HEPTACHLOR EPOXIDE										9.50 UG/KG		U			
METHOXYCHLOR										95.00 UG/KG		U			
TOXAPHENE										190.00 UG/KG		U			
RADIONUCLIDES															
URANIUM-238				3.84 PCI/G	.51	-									
URANIUM, TOTAL				10.70 MG/KG	2.8	-									
URANIUM-234				3.58 PCI/G	.48	-									
THORIUM-230				1.18 PCI/G	.45	-									
RADIUM-226				0.95 PCI/G	.12	-									
LEAD-210				0.52 PCI/G	.36	J									
POLONIUM-210				1.23 PCI/G	.91	J									
URANIUM-235/236				0.60 PCI/G		U									
THORIUM-232				0.62 PCI/G	.33	-									
THORIUM, TOTAL				5.58 MG/KG	2.97	-									
RADIUM-228				0.70 PCI/G	.17	J									
THORIUM-228				1.78 PCI/G	.57	-									
ACTINIUM-227				0.60 PCI/G		U									
PROTACTINIUM-231				1.20 PCI/G		U									
RADIUM-224				0.77 PCI/G	.12	-									

000168

5704

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SEMIVOLATILES

1,2,4-TRICHLOROBENZENE 390.00 UG/KG U
06/14/94

SAMPLE NUMBER:	064147	064148	064150	064067	064068
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-NA	-

SEMIVOLATILES	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
1,2-DICHLOROBENZENE										390.00 UG/KG		U			
1,3-DICHLOROBENZENE										390.00 UG/KG		U			
1,4-DICHLOROBENZENE										390.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL										1900.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL										390.00 UG/KG		U			
2,4-DICHLOROPHENOL										390.00 UG/KG		U			
2,4-DIMETHYLPHENOL										390.00 UG/KG		U			
2,4-DINITROPHENOL										1900.00 UG/KG		U			
2,4-DINITROTOLUENE										390.00 UG/KG		U			
2,6-DINITROTOLUENE										390.00 UG/KG		U			
2-CHLORONAPHTHALENE										390.00 UG/KG		U			
2-CHLOROPHENOL										390.00 UG/KG		U			
2-METHYLNAPHTHALENE										390.00 UG/KG		U			
2-METHYLPHENOL										390.00 UG/KG		U			
2-NITROANILINE										1900.00 UG/KG		U			
2-NITROPHENOL										390.00 UG/KG		U			
3,3'-DICHLOROBENZIDINE										790.00 UG/KG		UJ			
3-NITROANILINE										1900.00 UG/KG		UJ			
4,6-DINITRO-2-METHYLPHENOL										1900.00 UG/KG		U			
4-BROMOPHENYL PHENYL ETHER										390.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL										390.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER										390.00 UG/KG		U			
4-METHYLPHENOL										390.00 UG/KG		U			
4-NITROANILINE										1900.00 UG/KG		UJ			
4-NITROPHENOL										1900.00 UG/KG		U			
ACENAPHTHENE										390.00 UG/KG		U			
ACENAPHTHYLENE										390.00 UG/KG		U			
ANTHRACENE										390.00 UG/KG		U			
BENZO(A)ANTHRACENE										390.00 UG/KG		U			
BENZO(A)PYRENE										390.00 UG/KG		U			
BENZO(B)FLUORANTHENE										390.00 UG/KG		U			
BENZO(G,H,I)PERYLENE										390.00 UG/KG		U			
BENZO(K)FLUORANTHENE										390.00 UG/KG		U			
BENZOIC ACID										1900.00 UG/KG		UJ			
BENZYL ALCOHOL										390.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE										390.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER										390.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER										390.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE										390.00 UG/KG		U			
BUTYL BENZYL PHTHALATE										390.00 UG/KG		U			
CHRYSENE										390.00 UG/KG		U			

000169

SAMPLE NUMBER:	064147			064148			064150			064067			064068		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DI-N-BUTYL PHTHALATE										390.00 UG/KG		U			
DI-N-OCTYL PHTHALATE										390.00 UG/KG		U			
DIBENZO(A,H)ANTHRACENE										390.00 UG/KG		U			
DIBENZOFURAN										390.00 UG/KG		U			
DIETHYL PHTHALATE										390.00 UG/KG		U			
DIMETHYL PHTHALATE										390.00 UG/KG		U			
FLUORANTHENE										390.00 UG/KG		U			
FLUORENE										390.00 UG/KG		U			
HEXACHLOROBENZENE										390.00 UG/KG		U			
HEXACHLOROBUTADIENE										390.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE										390.00 UG/KG		U			
HEXACHLOROETHANE										390.00 UG/KG		UJ			
INDENO(1,2,3-CD)PYRENE										390.00 UG/KG		U			
ISOPHORONE										390.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE										390.00 UG/KG		U			
N-NITROSODIPHENYLAMINE										390.00 UG/KG		U			
NAPHTHALENE										390.00 UG/KG		U			
NITROBENZENE										390.00 UG/KG		U			
P-CHLOROANILINE										390.00 UG/KG		U			
PENTACHLOROPHENOL										1900.00 UG/KG		U			
PHENANTHRENE										390.00 UG/KG		U			
PHENOL										390.00 UG/KG		U			
PYRENE										390.00 UG/KG		U			
TRIBUTYL PHOSPHATE										390.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE										6.00 UG/KG		U			
1,1,2,2-TETRACHLOROETHANE										6.00 UG/KG		U			
1,1,2-TRICHLOROETHANE										6.00 UG/KG		U			
1,1-DICHLOROETHANE										6.00 UG/KG		U			
1,1-DICHLOROETHENE										6.00 UG/KG		U			
1,2-DICHLOROETHANE										6.00 UG/KG		U			
1,2-DICHLOROETHENE (TOTAL)										6.00 UG/KG		U			
1,2-DICHLOROPROPANE										6.00 UG/KG		U			
2-BUTANONE										12.00 UG/KG		U			
2-HEXANONE										12.00 UG/KG		UJ			
4-METHYL-2-PENTANONE										12.00 UG/KG		UJ			
ACETONE										16.00 UG/KG		UJ			
BENZENE										6.00 UG/KG		U			
BROMODICHLOROMETHANE										6.00 UG/KG		U			
BROMOFORM										6.00 UG/KG		UJ			
BROMOMETHANE										12.00 UG/KG		UJ			
CARBON DISULFIDE										6.00 UG/KG		U			
CARBON TETRACHLORIDE										6.00 UG/KG		U			

000170

5704

SAMPLE NUMBER:	064147			064148			064150			064067			064068		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROBENZENE										6.00 UG/KG		U			
CHLOROETHANE										12.00 UG/KG		U			
CHLOROFORM										6.00 UG/KG		U			
CHLOROMETHANE										12.00 UG/KG		U			
CIS-1,3-DICHLOROPROPENE										6.00 UG/KG		U			
DIBROMOCHLOROMETHANE										6.00 UG/KG		U			
ETHYLBENZENE										6.00 UG/KG		U			
METHYLENE CHLORIDE										6.00 UG/KG		U			
STYRENE										6.00 UG/KG		U			
TETRACHLOROETHENE										6.00 UG/KG		U			
TOLUENE										6.00 UG/KG		U			
TRANS-1,3-DICHLOROPROPENE										6.00 UG/KG		UJ			
TRICHLOROETHENE										6.00 UG/KG		U			
VINYL ACETATE										12.00 UG/KG		UJ			
VINYL CHLORIDE										12.00 UG/KG		U			
XYLENES, TOTAL										6.00 UG/KG		U			

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	064071	064072	064079	064085	099468
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.02
LAB:	IT	IT			IT
WELL OR BORING NUMBER:	1619	1619	1619	1619	1620
DEPTH:	60-61.2	60-61.2	81.2-82.5	103.-105	5-5.50
DATE COLLECTED:	20-JUL-91	20-JUL-91	23-JUL-91	25-JUL-91	15-MAY-91
NORTH COORDINATE:	480412.98	480412.98	480412.98	480412.98	480402.83
EAST COORDINATE:	1378593.22	1378593.22	1378593.22	1378593.22	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	-	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	1.12 PCI/G	.21	-	1.12 PCI/G	.21	-									
URANIUM, TOTAL	4.50 MG/KG		U	4.50 MG/KG		U									
URANIUM-234	0.89 PCI/G	.18	-	0.89 PCI/G	.18	-									
THORIUM-230	1.04 PCI/G	.39	-	1.04 PCI/G	.39	-									
RADIUM-226	0.88 PCI/G	.13	J	0.88 PCI/G	.13	J									
LEAD-210	0.71 PCI/G	.43	J	0.71 PCI/G	.43	J									
POLONIUM-210	1.15 PCI/G	.4	J												
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		U									
THORIUM-232	1.00 PCI/G	.38	-	1.00 PCI/G	.38	-									
THORIUM, TOTAL	8.98 MG/KG	3.46	-	8.98 MG/KG	3.46	-									
RADIUM-228	0.77 PCI/G	.22	J	0.77 PCI/G	.22	J									
THORIUM-228	1.33 PCI/G	.45	-	1.33 PCI/G	.45	-									
ACTINIUM-227	0.60 PCI/G		UJ	0.60 PCI/G		UJ									
PROTACTINIUM-231	1.60 PCI/G		UJ	1.60 PCI/G		UJ									
RADIUM-224	0.91 PCI/G	.15	J	0.91 PCI/G	.15	J									
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE													400.00 UG/KG		UR
1,2-DICHLOROBENZENE													400.00 UG/KG		UJ
1,3-DICHLOROBENZENE													400.00 UG/KG		UJ
1,4-DICHLOROBENZENE													400.00 UG/KG		UR
2,4,5-TRICHLOROPHENOL													1900.00 UG/KG		UJ
2,4,6-TRICHLOROPHENOL													400.00 UG/KG		UJ
2,4-DICHLOROPHENOL													400.00 UG/KG		UJ
2,4-DIMETHYLPHENOL													400.00 UG/KG	-	UJ
2,4-DINITROPHENOL													1900.00 UG/KG		UJ
2,4-DINITROTOLUENE													400.00 UG/KG		UJ
2,6-DINITROTOLUENE													400.00 UG/KG		UJ
2-CHLORONAPHTHALENE													400.00 UG/KG		UJ

000172

R7044

SAMPLE NUMBER:	064071			064072			064079			064085			099468		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2-CHLOROPHENOL													400.00 UG/KG		UJ
2-METHYLNAPHTHALENE													400.00 UG/KG		UJ
2-METHYLPHENOL													400.00 UG/KG		UJ
2-NITROANILINE													1900.00 UG/KG		UJ
2-NITROPHENOL													400.00 UG/KG		UJ
3,3'-DICHLOROBENZIDINE													800.00 UG/KG		UJ
3-NITROANILINE													1900.00 UG/KG		UJ
4,6-DINITRO-2-METHYLPHENOL													1900.00 UG/KG		UJ
4-BROMOPHENYL PHENYL ETHER													400.00 UG/KG		UJ
4-CHLORO-3-METHYLPHENOL													400.00 UG/KG		UJ
4-CHLOROPHENYLPHENYL ETHER													400.00 UG/KG		UJ
4-METHYLPHENOL													400.00 UG/KG		UJ
4-NITROANILINE													1900.00 UG/KG		UJ
4-NITROPHENOL													1900.00 UG/KG		UJ
ACENAPHTHENE													400.00 UG/KG		UJ
ACENAPHTHYLENE													400.00 UG/KG		UJ
ANTHRACENE													400.00 UG/KG		UJ
BENZO(A)ANTHRACENE													400.00 UG/KG		UJ
BENZO(A)PYRENE													400.00 UG/KG		UJ
BENZO(B)FLUORANTHENE													400.00 UG/KG		UJ
BENZO(G,H,I)PERYLENE													400.00 UG/KG		UJ
BENZO(K)FLUORANTHENE													400.00 UG/KG		UJ
BENZOIC ACID													1900.00 UG/KG		UJ
BENZYL ALCOHOL													400.00 UG/KG		UJ
BIS(2-CHLOROETHOXY)METHANE													400.00 UG/KG		UJ
BIS(2-CHLOROETHYL)ETHER													400.00 UG/KG		UJ
BIS(2-CHLOROISOPROPYL) ETHER													400.00 UG/KG		UJ
BIS(2-ETHYLHEXYL)PHTHALATE													400.00 UG/KG		UJ
BUTYL BENZYL PHTHALATE													400.00 UG/KG		UJ
CHRYSENE													400.00 UG/KG		UJ
DI-N-BUTYL PHTHALATE													48.00 UG/KG		J
DI-N-OCTYL PHTHALATE													400.00 UG/KG		UJ
DIBENZO(A,H)ANTHRACENE													400.00 UG/KG		UJ
DIBENZOFURAN													400.00 UG/KG		UJ
DIETHYL PHTHALATE													400.00 UG/KG		UJ
DIMETHYL PHTHALATE													400.00 UG/KG		UJ
FLUORANTHENE													400.00 UG/KG		UJ
FLUORENE													400.00 UG/KG		UJ
HEXACHLOROBENZENE													400.00 UG/KG		UJ
HEXACHLOROBUTADIENE													400.00 UG/KG		UJ
HEXACHLOROCYCLOPENTADIENE													400.00 UG/KG		UJ
HEXACHLOROETHANE													400.00 UG/KG		UJ
INDENO(1,2,3-CD)PYRENE													400.00 UG/KG		UJ
ISOPHORONE													400.00 UG/KG		UJ
N-NITROSO-DI-N-PROPYLAMINE													400.00 UG/KG		UR

000173

SAMPLE NUMBER:	064071			064072			064079			064085			099468		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
N-NITROSODIPHENYLAMINE													400.00 UG/KG		UJ
NAPHTHALENE													400.00 UG/KG		UJ
NITROBENZENE													400.00 UG/KG		UJ
P-CHLOROANILINE													400.00 UG/KG		UJ
PENTACHLOROPHENOL													1900.00 UG/KG		UJ
PHENANTHRENE													400.00 UG/KG		UJ
PHENOL													400.00 UG/KG		UJ
PYRENE													400.00 UG/KG		UJ
TRIBUTYL PHOSPHATE													400.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099469	099470	099475	099461	099462
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT		IT
WELL OR BORING NUMBER:	1620	1620	1620	1620	1620
DEPTH:	5-5.50	5-5.50	5-5.50	3-4	4-5
DATE COLLECTED:	15-MAY-91	15-MAY-91	15-MAY-91	15-MAY-91	15-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480402.83
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	12100.00 MG/KG		-												
ANTIMONY	24.90 MG/KG		J												
ARSENIC	8.00 MG/KG		UJ												
BARIUM	89.40 MG/KG		-												
BERYLLIUM	0.85 MG/KG		-												
CADMIUM	4.20 MG/KG		-												
CALCIUM	39600.00 MG/KG		J												
CHROMIUM	20.00 MG/KG		-												
COBALT	13.30 MG/KG		-												
COPPER	23.80 MG/KG		-												
CYANIDE				0.12 MG/KG		U									
IRON	25400.00 MG/KG		-												
LEAD	11.80 MG/KG		-												
MAGNESIUM	13900.00 MG/KG		-												
MANGANESE	519.00 MG/KG		-												
MERCURY							0.12 MG/KG		U						
MOLYBDENUM	3.20 MG/KG		-												
NICKEL	32.40 MG/KG		-												
POTASSIUM	1080.00 MG/KG		-												
SELENIUM	0.48 MG/KG		U												
SILVER	7.20 MG/KG		-												
SODIUM	79.80 MG/KG		-												
THALLIUM	0.48 MG/KG		U												
VANADIUM	28.40 MG/KG		-												
ZINC	59.60 MG/KG		-												
RADIONUCLIDES															
URANIUM-238													3.38 PCI/G	.45	-
URANIUM, TOTAL													11.10 MG/KG	3.1	J

000175

SAMPLE NUMBER:	099469			099470			099475			099461			099462		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-234													2.59 PCI/G	.36	-
THORIUM-230													4.01 PCI/G	.79	-
RADIUM-226													3.67 PCI/G	.28	J
LEAD-210													1.96 PCI/G	.47	J
POLONIUM-210													4.02 PCI/G	.87	J
URANIUM-235/236													0.60 PCI/G		U
THORIUM-232													0.87 PCI/G	.28	-
THORIUM, TOTAL													7.86 MG/KG	2.53	-
RADIUM-228													0.80 PCI/G	.21	J
THORIUM-228													1.35 PCI/G	.36	-
NEPTUNIUM-237													0.60 PCI/G		U
PLUTONIUM-239/240													0.60 PCI/G		U
PLUTONIUM-238													0.60 PCI/G		U
STRONTIUM-90													0.50 PCI/G		U
TECHNETIUM-99													1.00 PCI/G		UJ
RUTHENIUM-106													1.00 PCI/G		UJ
CESIUM-137													0.20 PCI/G		UJ
ACTINIUM-227													0.60 PCI/G		U
PROTACTINIUM-231													1.40 PCI/G		UJ
VOLATILES															
1,1,1-TRICHLOROETHANE													6.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE													6.00 UG/KG		U
1,1,2-TRICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHENE													6.00 UG/KG		U
1,2-DICHLOROETHANE													6.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)													6.00 UG/KG		U
1,2-DICHLOROPROPANE													6.00 UG/KG		U
2-BUTANONE													12.00 UG/KG		UJ
2-HEXANONE													12.00 UG/KG		U
4-METHYL-2-PENTANONE													12.00 UG/KG		U
ACETONE													16.00 UG/KG		U
BENZENE													6.00 UG/KG		U
BROMODICHLOROMETHANE													6.00 UG/KG		U
BROMOFORM													6.00 UG/KG		U
BROMOMETHANE													12.00 UG/KG		U
CARBON DISULFIDE													6.00 UG/KG		U
CARBON TETRACHLORIDE													6.00 UG/KG		U
CHLOROBENZENE													6.00 UG/KG		U
CHLOROETHANE													12.00 UG/KG		U
CHLOROFORM													6.00 UG/KG		U
CHLOROMETHANE													12.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE													6.00 UG/KG		U

000176

5704

SAMPLE NUMBER:	099469			099470			099475			099461			099462		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
DIBROMOCHLOROMETHANE													6.00 UG/KG		U
ETHYLBENZENE													6.00 UG/KG		U
METHYLENE CHLORIDE													22.00 UG/KG		U
STYRENE													6.00 UG/KG		U
TETRACHLOROETHENE													6.00 UG/KG		U
TOLUENE													3.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE													6.00 UG/KG		U
TRICHLOROETHENE													6.00 UG/KG		U
VINYL ACETATE													12.00 UG/KG		U
VINYL CHLORIDE													12.00 UG/KG		U
XYLENES, TOTAL													6.00 UG/KG		U

000177

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099482	099483	099484	099487	099488
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT		IT	IT
WELL OR BORING NUMBER:	1620	1620	1620	1620	1620
DEPTH:	14-15	15-16	16-17	19-20	16-16.5
DATE COLLECTED:	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480402.83
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	-	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MERCURY													0.12 MG/KG		UJ
RADIONUCLIDES															
URANIUM-238	1.15 PCI/G	.29	-							1.52 PCI/G	.26	-			
URANIUM, TOTAL	12.40 MG/KG	2.8	J							10.80 MG/KG	2.6	J			
URANIUM-234	1.10 PCI/G	.28	-							1.01 PCI/G	.2	-			
THORIUM-230	1.83 PCI/G	.49	-							1.61 PCI/G	.36	-			
RADIUM-226	1.28 PCI/G	.14	J							1.52 PCI/G	.15	J			
LEAD-210	0.98 PCI/G	.36	J							1.19 PCI/G	.4	J			
POLONIUM-210	1.77 PCI/G	.6	R							2.60 PCI/G	.8	-			
URANIUM-235/236	0.60 PCI/G		U							0.60 PCI/G		U			
THORIUM-232	0.79 PCI/G	.3	-							0.70 PCI/G	.21	-			
THORIUM, TOTAL	7.08 MG/KG	2.7	-							6.33 MG/KG	1.92	-			
RADIUM-228	0.97 PCI/G	.19	J							0.91 PCI/G	.19	J			
THORIUM-228	1.64 PCI/G	.46	-							1.11 PCI/G	.28	-			
ACTINIUM-227	0.60 PCI/G		U							0.60 PCI/G		U			
PROTACTINIUM-231	1.80 PCI/G		UJ							1.80 PCI/G		UJ			
RADIUM-224	0.99 PCI/G	.14	J							0.85 PCI/G	.13	J			
VOLATILES															
1,1,1-TRICHLOROETHANE				6.00 UG/KG		UJ									
1,1,2,2-TETRACHLOROETHANE				6.00 UG/KG		UJ									
1,1,2-TRICHLOROETHANE				6.00 UG/KG		UJ									
1,1-DICHLOROETHANE				6.00 UG/KG		UJ									
1,1-DICHLOROETHENE				6.00 UG/KG		UJ									
1,2-DICHLOROETHANE				6.00 UG/KG		UJ									
1,2-DICHLOROETHENE (TOTAL)				6.00 UG/KG		UJ									
1,2-DICHLOROPROPANE				6.00 UG/KG		UJ									

SAMPLE NUMBER:	099482			099483			099484			099487			099488		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
2-BUTANONE				4.00 UG/KG		J									
2-HEXANONE				12.00 UG/KG		UJ									
4-METHYL-2-PENTANONE				12.00 UG/KG		UJ									
ACETONE				11.00 UG/KG		U									
BENZENE				6.00 UG/KG		UJ									
BROMODICHLOROMETHANE				6.00 UG/KG		UJ									
BROMOFORM				6.00 UG/KG		UJ									
BROMOMETHANE				12.00 UG/KG		UJ									
CARBON DISULFIDE				6.00 UG/KG		UJ									
CARBON TETRACHLORIDE				6.00 UG/KG		UJ									
CHLOROBENZENE				6.00 UG/KG		UJ									
CHLOROETHANE				12.00 UG/KG		UJ									
CHLOROFORM				6.00 UG/KG		UJ									
CHLOROMETHANE				12.00 UG/KG		UJ									
CIS-1,3-DICHLOROPROPENE				6.00 UG/KG		UJ									
DIBROMOCHLOROMETHANE				6.00 UG/KG		UJ									
ETHYLBENZENE				6.00 UG/KG		UJ									
METHYLENE CHLORIDE				5.00 UG/KG		U									
STYRENE				6.00 UG/KG		UJ									
TETRACHLOROETHENE				6.00 UG/KG		UJ									
TOLUENE				1.00 UG/KG		J									
TRANS-1,3-DICHLOROPROPENE				6.00 UG/KG		UJ									
TRICHLOROETHENE				6.00 UG/KG		UJ									
VINYL ACETATE				12.00 UG/KG		UJ									
VINYL CHLORIDE				12.00 UG/KG		UJ									
XYLENES, TOTAL				6.00 UG/KG		UJ									

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099489	099490	099491	099493	099495
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT		
WELL OR BORING NUMBER:	1620	1620	1620	1620	1620
DEPTH:	16-16.5	16-16.5	16-16.5	16-16.5	16-16.5
DATE COLLECTED:	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480402.83
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	-	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM				9070.00 MG/KG		-									
ANTIMONY				27.40 MG/KG		J									
ARSENIC				7.50 MG/KG		J									
BARIUM				62.70 MG/KG		-									
BERYLLIUM				0.84 MG/KG		J									
CADMIUM				5.40 MG/KG		-									
CALCIUM				86700.00 MG/KG		J									
CHROMIUM				16.60 MG/KG		-									
COBALT				12.00 MG/KG		J									
COPPER				27.00 MG/KG		-									
CYANIDE							1.60 MG/KG		-						
IRON				23100.00 MG/KG		-									
LEAD				11.00 MG/KG		-									
MAGNESIUM				22100.00 MG/KG		-									
MANGANESE				597.00 MG/KG		-									
MOLYBDENUM				4.60 MG/KG		-									
NICKEL				30.60 MG/KG		-									
POTASSIUM				950.00 MG/KG		J									
SELENIUM				0.48 MG/KG		UJ									
SILVER				8.20 MG/KG		-									
SODIUM				138.00 MG/KG		J									
THALLIUM				0.97 MG/KG		UJ									
VANADIUM				25.10 MG/KG		-									
ZINC				58.80 MG/KG		-									
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	410.00 UG/KG		U												
1,2-DICHLOROBENZENE	410.00 UG/KG		U												
1,3-DICHLOROBENZENE	410.00 UG/KG		U												

5704

SAMPLE NUMBER:	099489			099490			099491			099493			099495		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,4-DICHLOROBENZENE	410.00 UG/KG		U												
2,4,5-TRICHLOROPHENOL	2000.00 UG/KG		U												
2,4,6-TRICHLOROPHENOL	410.00 UG/KG		U												
2,4-DICHLOROPHENOL	410.00 UG/KG		U												
2,4-DIMETHYLPHENOL	410.00 UG/KG		U												
2,4-DINITROPHENOL	2000.00 UG/KG		UJ												
2,4-DINITROTOLUENE	410.00 UG/KG		U												
2,6-DINITROTOLUENE	410.00 UG/KG		U												
2-CHLORONAPHTHALENE	410.00 UG/KG		U												
2-CHLOROPHENOL	410.00 UG/KG		U												
2-METHYLNAPHTHALENE	410.00 UG/KG		U												
2-METHYLPHENOL	410.00 UG/KG		U												
2-NITROANILINE	2000.00 UG/KG		U												
2-NITROPHENOL	410.00 UG/KG		U												
3,3'-DICHLOROBENZIDINE	830.00 UG/KG		U												
3-NITROANILINE	2000.00 UG/KG		U												
4,6-DINITRO-2-METHYLPHENOL	2000.00 UG/KG		U												
4-BROMOPHENYL PHENYL ETHER	410.00 UG/KG		U												
4-CHLORO-3-METHYLPHENOL	410.00 UG/KG		U												
4-CHLOROPHENYLPHENYL ETHER	410.00 UG/KG		U												
4-METHYLPHENOL	410.00 UG/KG		U												
4-NITROANILINE	2000.00 UG/KG		U												
4-NITROPHENOL	2000.00 UG/KG		U												
ACENAPHTHENE	410.00 UG/KG		U												
ACENAPHTHYLENE	410.00 UG/KG		U												
ANTHRACENE	410.00 UG/KG		U												
BENZO(A)ANTHRACENE	410.00 UG/KG		U												
BENZO(A)PYRENE	410.00 UG/KG		U												
BENZO(B)FLUORANTHENE	410.00 UG/KG		U												
BENZO(G,H,I)PERYLENE	410.00 UG/KG		U												
BENZO(K)FLUORANTHENE	410.00 UG/KG		U												
BENZOIC ACID	2000.00 UG/KG		UJ												
BENZYL ALCOHOL	410.00 UG/KG		U												
BIS(2-CHLOROETHOXY)METHANE	410.00 UG/KG		U												
BIS(2-CHLOROETHYL)ETHER	410.00 UG/KG		U												
BIS(2-CHLOROISOPROPYL) ETHER	410.00 UG/KG		U												
BIS(2-ETHYLHEXYL)PHTHALATE	110.00 UG/KG		J												
BUTYL BENZYL PHTHALATE	410.00 UG/KG		U												
CHRYSENE	410.00 UG/KG		U												
DI-N-BUTYL PHTHALATE	410.00 UG/KG		U												
DI-N-OCTYL PHTHALATE	52.00 UG/KG		J												
DIBENZO(A,H)ANTHRACENE	410.00 UG/KG		U												
DIBENZOFURAN	410.00 UG/KG		U												
DIETHYL PHTHALATE	410.00 UG/KG		U												
DIMETHYL PHTHALATE	410.00 UG/KG		U												

000181

SAMPLE NUMBER:	099489			099490			099491			099493			099495		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
FLUORANTHENE	410.00 UG/KG		U												
FLUORENE	410.00 UG/KG		U												
HEXACHLOROBENZENE	410.00 UG/KG		U												
HEXACHLOROBUTADIENE	410.00 UG/KG		U												
HEXACHLOROCYCLOPENTADIENE	410.00 UG/KG		UJ												
HEXACHLOROETHANE	410.00 UG/KG		U												
INDENO(1,2,3-CD)PYRENE	410.00 UG/KG		U												
ISOPHORONE	410.00 UG/KG		U												
N-NITROSO-DI-N-PROPYLAMINE	410.00 UG/KG		U												
N-NITROSODIPHENYLAMINE	410.00 UG/KG		U												
NAPHTHALENE	410.00 UG/KG		U												
NITROBENZENE	410.00 UG/KG		U												
P-CHLOROANILINE	410.00 UG/KG		U												
PENTACHLOROPHENOL	2000.00 UG/KG		U												
PHENANTHRENE	410.00 UG/KG		U												
PHENOL	410.00 UG/KG		U												
PYRENE	410.00 UG/KG		U												
TRIBUTYL PHOSPHATE	410.00 UG/KG		U												

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099496	099513	099500	099501	099514
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:		IT	IT	IT	IT
WELL OR BORING NUMBER:	1620	1620	1620	1620	1620
DEPTH:	16-16.5	16-16.5	23-24	22-23	21-21.5
DATE COLLECTED:	16-MAY-91	17-MAY-91	17-MAY-91	17-MAY-91	17-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480402.83
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM													10500.00 MG/KG		-
ANTIMONY													22.90 MG/KG		J
ARSENIC													7.90 MG/KG		J
BARIUM													97.30 MG/KG		-
BERYLLIUM													1.10 MG/KG		J
CADMIUM													4.10 MG/KG		-
CALCIUM													37900.00 MG/KG		J
CHROMIUM													18.50 MG/KG		-
COBALT													14.90 MG/KG		-
COPPER													23.90 MG/KG		-
IRON													27500.00 MG/KG		-
LEAD													10.60 MG/KG		-
MAGNESIUM													12700.00 MG/KG		-
MANGANESE													880.00 MG/KG		-
MERCURY				0.11 MG/KG		UJ									
MOLYBDENUM													3.30 MG/KG		-
NICKEL													33.70 MG/KG		-
POTASSIUM													712.00 MG/KG		J
SELENIUM													0.49 MG/KG		UJ
SILVER													7.00 MG/KG		-
SODIUM													82.90 MG/KG		J
THALLIUM													0.63 MG/KG		UJ
VANADIUM													27.50 MG/KG		-
ZINC													53.90 MG/KG		-
RADIONUCLIDES															
URANIUM-238							1.18 PCI/G	.23	-						
URANIUM, TOTAL							11.90 MG/KG	2.8	J						
URANIUM-234							1.30 PCI/G	.25	-						

000183

SAMPLE NUMBER:	099496			099513			099500			099501			099514		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM-230							1.42 PCI/G	.38	-						
RADIUM-226							1.52 PCI/G	.15	J						
LEAD-210							1.37 PCI/G	.43	J						
POLONIUM-210							2.11 PCI/G	.5	R						
URANIUM-235/236							0.60 PCI/G		U						
THORIUM-232							0.73 PCI/G	.26	-						
THORIUM, TOTAL							6.55 MG/KG	2.31	-						
RADIUM-228							1.15 PCI/G	.21	J						
THORIUM-228							1.18 PCI/G	.34	-						
ACTINIUM-227							0.60 PCI/G		U						
PROTACTINIUM-231							1.90 PCI/G		UJ						
RADIUM-224							1.15 PCI/G	.16	J						
VOLATILES															
1,1,1-TRICHLOROETHANE										6.00 UG/KG		UJ			
1,1,2,2-TETRACHLOROETHANE										6.00 UG/KG		UJ			
1,1,2-TRICHLOROETHANE										6.00 UG/KG		UJ			
1,1-DICHLOROETHANE										6.00 UG/KG		UJ			
1,1-DICHLOROETHENE										6.00 UG/KG		UJ			
1,2-DICHLOROETHANE										6.00 UG/KG		UJ			
1,2-DICHLOROETHENE (TOTAL)										6.00 UG/KG		UJ			
1,2-DICHLOROPROPANE										6.00 UG/KG		UJ			
2-BUTANONE										12.00 UG/KG		UJ			
2-HEXANONE										12.00 UG/KG		UJ			
4-METHYL-2-PENTANONE										4.00 UG/KG		J			
ACETONE										27.00 UG/KG		UJ			
BENZENE										6.00 UG/KG		UJ			
BROMODICHLOROMETHANE										6.00 UG/KG		UJ			
BROMOFORM										6.00 UG/KG		UJ			
BROMOMETHANE										12.00 UG/KG		UJ			
CARBON DISULFIDE										6.00 UG/KG		UJ			
CARBON TETRACHLORIDE										6.00 UG/KG		UJ			
CHLOROBENZENE										6.00 UG/KG		UJ			
CHLOROETHANE										12.00 UG/KG		UJ			
CHLOROFORM										6.00 UG/KG		UJ			
CHLOROMETHANE										12.00 UG/KG		UJ			
CIS-1,3-DICHLOROPROPENE										6.00 UG/KG		UJ			
DIBROMOCHLOROMETHANE										6.00 UG/KG		UJ			
ETHYLBENZENE										6.00 UG/KG		UJ			
METHYLENE CHLORIDE										5.00 UG/KG		U			
STYRENE										6.00 UG/KG		UJ			
TETRACHLOROETHENE										6.00 UG/KG		UJ			
TOLUENE										6.00 UG/KG		UJ			
TRANS-1,3-DICHLOROPROPENE										6.00 UG/KG		UJ			

000184

5704

SAMPLE NUMBER:	099496			099513			099500			099501			099514		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRICHLOROETHENE										6.00 UG/KG		UJ			
VINYL ACETATE										12.00 UG/KG		UJ			
VINYL CHLORIDE										12.00 UG/KG		UJ			
XYLENES, TOTAL										6.00 UG/KG		UJ			

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099515	099517	099537	099530	099532
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT		IT
WELL OR BORING NUMBER:	1620	1620	1621	1621	1621
DEPTH:	21-21.5	21-21.5	9-10	2-3	4-5
DATE COLLECTED:	17-MAY-91	17-MAY-91	21-MAY-91	21-MAY-91	21-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480517.8	480517.8	480517.8
EAST COORDINATE:	1378440.71	1378440.71	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
CYANIDE	0.12 MG/KG		U												
RADIONUCLIDES															
URANIUM-238							2.39 PCI/G	.35	-				4.17 PCI/G	.54	-
URANIUM, TOTAL							3.69 MG/KG	2.71	-				12.40 MG/KG	3.4	-
URANIUM-234							2.28 PCI/G	.33	-				3.62 PCI/G	.48	-
THORIUM-230							1.71 PCI/G	.36	-				4.78 PCI/G	.8	-
RADIUM-226							1.63 PCI/G	.16	-				6.68 PCI/G	.43	-
LEAD-210							1.26 PCI/G	.42	-				4.45 PCI/G	.72	-
POLONIUM-210							2.17 PCI/G	.64	J				14.70 PCI/G	2.9	J
URANIUM-235/236							0.60 PCI/G		U				0.60 PCI/G		U
THORIUM-232							1.03 PCI/G	.26	-				0.86 PCI/G	.23	-
THORIUM, TOTAL							9.27 MG/KG	2.32	-				7.73 MG/KG	2.1	-
RADIUM-228							0.94 PCI/G	.21	-				0.97 PCI/G	.22	-
THORIUM-228							1.54 PCI/G	.33	-				1.12 PCI/G	.27	-
NEPTUNIUM-237							0.60 PCI/G		U				0.60 PCI/G		U
PLUTONIUM-239/240							0.60 PCI/G		U				0.60 PCI/G		U
PLUTONIUM-238							0.60 PCI/G		U				0.60 PCI/G		U
STRONTIUM-90							0.50 PCI/G		U				0.50 PCI/G		U
TECHNETIUM-99							1.00 PCI/G		U				1.00 PCI/G		U
RUTHENIUM-106							1.00 PCI/G		U				1.00 PCI/G		U
CESIUM-137							0.20 PCI/G		U				0.23 PCI/G	.07	-
ACTINIUM-227							0.60 PCI/G		U				0.60 PCI/G		U
PROTACTINIUM-231							1.50 PCI/G		U				1.70 PCI/G		U
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				410.00 UG/KG		U									
1,2-DICHLOROBENZENE				410.00 UG/KG		U									

000186

5704

SAMPLE NUMBER:	099515			099517			099537			099530			099532		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,3-DICHLOROBENZENE				410.00 UG/KG		U									
1,4-DICHLOROBENZENE				410.00 UG/KG		U									
2,4,5-TRICHLOROPHENOL				2000.00 UG/KG		U									
2,4,6-TRICHLOROPHENOL				410.00 UG/KG		U									
2,4-DICHLOROPHENOL				410.00 UG/KG		U									
2,4-DIMETHYLPHENOL				410.00 UG/KG		U									
2,4-DINITROPHENOL				2000.00 UG/KG		UJ									
2,4-DINITROTOLUENE				410.00 UG/KG		U									
2,6-DINITROTOLUENE				410.00 UG/KG		U									
2-CHLORONAPHTHALENE				410.00 UG/KG		U									
2-CHLOROPHENOL				410.00 UG/KG		U									
2-METHYLNAPHTHALENE				410.00 UG/KG		U									
2-METHYLPHENOL				410.00 UG/KG		U									
2-NITROANILINE				2000.00 UG/KG		U									
2-NITROPHENOL				410.00 UG/KG		U									
3,3'-DICHLOROBENZIDINE				820.00 UG/KG		U									
3-NITROANILINE				2000.00 UG/KG		U									
4,6-DINITRO-2-METHYLPHENOL				2000.00 UG/KG		U									
4-BROMOPHENYL PHENYL ETHER				410.00 UG/KG		U									
4-CHLORO-3-METHYLPHENOL				410.00 UG/KG		U									
4-CHLOROPHENYLPHENYL ETHER				410.00 UG/KG		U									
4-METHYLPHENOL				410.00 UG/KG		U									
4-NITROANILINE				2000.00 UG/KG		U									
4-NITROPHENOL				2000.00 UG/KG		U									
ACENAPHTHENE				410.00 UG/KG		U									
ACENAPHTHYLENE				410.00 UG/KG		U									
ANTHRACENE				410.00 UG/KG		U									
BENZO(A)ANTHRACENE				410.00 UG/KG		U									
BENZO(A)PYRENE				410.00 UG/KG		U									
BENZO(B)FLUORANTHENE				410.00 UG/KG		U									
BENZO(G,H,I)PERYLENE				410.00 UG/KG		U									
BENZO(K)FLUORANTHENE				410.00 UG/KG		U									
BENZOIC ACID				2000.00 UG/KG		UJ									
BENZYL ALCOHOL				410.00 UG/KG		U									
BIS(2-CHLOROETHOXY)METHANE				410.00 UG/KG		U									
BIS(2-CHLOROETHYL)ETHER				410.00 UG/KG		U									
BIS(2-CHLOROISOPROPYL) ETHER				410.00 UG/KG		U									
BIS(2-ETHYLHEXYL)PHTHALATE				410.00 UG/KG		U									
BUTYL BENZYL PHTHALATE				410.00 UG/KG		U									
CHRYSENE				410.00 UG/KG		U									
DI-N-BUTYL PHTHALATE				410.00 UG/KG		U									
DI-N-OCTYL PHTHALATE				410.00 UG/KG		U									
DIBENZO(A,H)ANTHRACENE				410.00 UG/KG		U									
DIBENZOFURAN				410.00 UG/KG		U									
DIETHYL PHTHALATE				410.00 UG/KG		U									

000187

SAMPLE NUMBER:	099515			099517			099537			099530			099532		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIMETHYL PHTHALATE				410.00 UG/KG		U									
FLUORANTHENE				410.00 UG/KG		U									
FLUORENE				410.00 UG/KG		U									
HEXACHLOROBENZENE				410.00 UG/KG		U									
HEXACHLOROBUTADIENE				410.00 UG/KG		U									
HEXACHLOROCYCLOPENTADIENE				410.00 UG/KG		UJ									
HEXACHLOROETHANE				410.00 UG/KG		U									
INDENO(1,2,3-CD)PYRENE				410.00 UG/KG		U									
ISOPHORONE				410.00 UG/KG		U									
N-NITROSO-DI-N-PROPYLAMINE				410.00 UG/KG		U									
N-NITROSODIPHENYLAMINE				410.00 UG/KG		U									
NAPHTHALENE				410.00 UG/KG		U									
NITROBENZENE				410.00 UG/KG		U									
P-CHLOROANILINE				410.00 UG/KG		U									
PENTACHLOROPHENOL				2000.00 UG/KG		U									
PHENANTHRENE				410.00 UG/KG		U									
PHENOL				410.00 UG/KG		U									
PYRENE				410.00 UG/KG		U									
TRIBUTYL PHOSPHATE				410.00 UG/KG		U									

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099533	099540	099541	099542	099543
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	5-6	6-6.50	6-6.50	6-6.50	6-6.50
DATE COLLECTED:	21-MAY-91	21-MAY-91	21-MAY-91	21-MAY-91	21-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM										9890.00 MG/KG		-			
ANTIMONY										27.10 MG/KG		J			
ARSENIC										6.10 MG/KG		J			
BARIUM										75.00 MG/KG		-			
BERYLLIUM										0.78 MG/KG		-			
CADMIUM										4.30 MG/KG		-			
CALCIUM										44900.00 MG/KG		J			
CHROMIUM										18.70 MG/KG		-			
COBALT										12.30 MG/KG		-			
COPPER										20.40 MG/KG		-			
CYANIDE													0.15 MG/KG		-
IRON										19900.00 MG/KG		-			
LEAD										12.20 MG/KG		-			
MAGNESIUM										15500.00 MG/KG		-			
MANGANESE										489.00 MG/KG		-			
MERCURY				0.12 MG/KG		UJ									
MOLYBDENUM										3.60 MG/KG		-			
NICKEL										28.10 MG/KG		-			
POTASSIUM										917.00 MG/KG		-			
SELENIUM										0.48 MG/KG		U			
SILVER										7.50 MG/KG		-			
SODIUM										81.90 MG/KG		U			
THALLIUM										0.48 MG/KG		UJ			
VANADIUM										25.60 MG/KG		-			
ZINC										61.00 MG/KG		-			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE							410.00 UG/KG		U						
1,2-DICHLOROBENZENE							410.00 UG/KG		U						

000189

SAMPLE NUMBER:	099533			099540			099541			099542			099543		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,3-DICHLOROBENZENE							410.00 UG/KG		U						
1,4-DICHLOROBENZENE							410.00 UG/KG		U						
2,4,5-TRICHLOROPHENOL							2000.00 UG/KG		U						
2,4,6-TRICHLOROPHENOL							410.00 UG/KG		U						
2,4-DICHLOROPHENOL							410.00 UG/KG		U						
2,4-DIMETHYLPHENOL							410.00 UG/KG		U						
2,4-DINITROPHENOL							2000.00 UG/KG		UJ						
2,4-DINITROTOLUENE							410.00 UG/KG		U						
2,6-DINITROTOLUENE							410.00 UG/KG		U						
2-CHLORONAPHTHALENE							410.00 UG/KG		U						
2-CHLOROPHENOL							410.00 UG/KG		U						
2-METHYLNAPHTHALENE							410.00 UG/KG		U						
2-METHYLPHENOL							410.00 UG/KG		U						
2-NITROANILINE							2000.00 UG/KG		U						
2-NITROPHENOL							410.00 UG/KG		U						
3,3'-DICHLOROBENZIDINE							810.00 UG/KG		U						
3-NITROANILINE							2000.00 UG/KG		U						
4,6-DINITRO-2-METHYLPHENOL							2000.00 UG/KG		U						
4-BROMOPHENYL PHENYL ETHER							410.00 UG/KG		U						
4-CHLORO-3-METHYLPHENOL							410.00 UG/KG		U						
4-CHLOROPHENYLPHENYL ETHER							410.00 UG/KG		U						
4-METHYLPHENOL							410.00 UG/KG		U						
4-NITROANILINE							2000.00 UG/KG		U						
4-NITROPHENOL							2000.00 UG/KG		U						
ACENAPHTHENE							410.00 UG/KG		U						
ACENAPHTHYLENE							410.00 UG/KG		U						
ANTHRACENE							410.00 UG/KG		U						
BENZO(A)ANTHRACENE							410.00 UG/KG		U						
BENZO(A)PYRENE							410.00 UG/KG		U						
BENZO(B)FLUORANTHENE							410.00 UG/KG		U						
BENZO(G,H,I)PERYLENE							410.00 UG/KG		U						
BENZO(K)FLUORANTHENE							410.00 UG/KG		U						
BENZOIC ACID							2000.00 UG/KG		UJ						
BENZYL ALCOHOL							410.00 UG/KG		U						
BIS(2-CHLOROETHOXY)METHANE							410.00 UG/KG		U						
BIS(2-CHLOROETHYL)ETHER							410.00 UG/KG		U						
BIS(2-CHLOROISOPROPYL) ETHER							410.00 UG/KG		U						
BIS(2-ETHYLHEXYL)PHTHALATE							410.00 UG/KG		U						
BUTYL BENZYL PHTHALATE							410.00 UG/KG		U						
CHRYSENE							410.00 UG/KG		U						
DI-N-BUTYL PHTHALATE							410.00 UG/KG		U						
DI-N-OCTYL PHTHALATE							53.00 UG/KG		J						
DIBENZO(A,H)ANTHRACENE							410.00 UG/KG		U						
DIBENZOFURAN							410.00 UG/KG		U						
DIETHYL PHTHALATE							410.00 UG/KG		U						

SAMPLE NUMBER:	099533			099540			099541			099542			099543		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIMETHYL PHTHALATE							410.00 UG/KG		U						
FLUORANTHENE							410.00 UG/KG		U						
FLUORENE							410.00 UG/KG		U						
HEXACHLOROBENZENE							410.00 UG/KG		U						
HEXACHLOROBUTADIENE							410.00 UG/KG		U						
HEXACHLOROCYCLOPENTADIENE							410.00 UG/KG		UJ						
HEXACHLOROETHANE							410.00 UG/KG		U						
INDENO(1,2,3-CD)PYRENE							410.00 UG/KG		U						
ISOPHORONE							410.00 UG/KG		U						
N-NITROSO-DI-N-PROPYLAMINE							410.00 UG/KG		U						
N-NITROSODIPHENYLAMINE							410.00 UG/KG		U						
NAPHTHALENE							410.00 UG/KG		U						
NITROBENZENE							410.00 UG/KG		U						
P-CHLOROANILINE							410.00 UG/KG		U						
PENTACHLOROPHENOL							2000.00 UG/KG		U						
PHENANTHRENE							410.00 UG/KG		U						
PHENOL							330.00 UG/KG		U						
PYRENE							410.00 UG/KG		U						
VOLATILES															
1,1,1-TRICHLOROETHANE	6.00 UG/KG		U												
1,1,2,2-TETRACHLOROETHANE	6.00 UG/KG		U												
1,1,2-TRICHLOROETHANE	6.00 UG/KG		U												
1,1-DICHLOROETHANE	6.00 UG/KG		U												
1,1-DICHLOROETHENE	6.00 UG/KG		U												
1,2-DICHLOROETHANE	6.00 UG/KG		UJ												
1,2-DICHLOROETHENE (TOTAL)	6.00 UG/KG		U												
1,2-DICHLOROPROPANE	6.00 UG/KG		U												
2-BUTANONE	11.00 UG/KG		J												
2-HEXANONE	12.00 UG/KG		U												
4-METHYL-2-PENTANONE	12.00 UG/KG		U												
ACETONE	64.00 UG/KG		J												
BENZENE	6.00 UG/KG		U												
BROMODICHLOROMETHANE	6.00 UG/KG		U												
BROMOFORM	6.00 UG/KG		U												
BROMOMETHANE	12.00 UG/KG		UJ												
CARBON DISULFIDE	6.00 UG/KG		UJ												
CARBON TETRACHLORIDE	6.00 UG/KG		U												
CHLOROBENZENE	6.00 UG/KG		U												
CHLOROETHANE	12.00 UG/KG		U												
CHLOROFORM	6.00 UG/KG		U												
CHLOROMETHANE	12.00 UG/KG		U												
CIS-1,3-DICHLOROPROPENE	6.00 UG/KG		U												
DIBROMOCHLOROMETHANE	6.00 UG/KG		U												

001191

SAMPLE NUMBER:	099533			099540			099541			099542			099543		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
ETHYLBENZENE	6.00 UG/KG		U												
METHYLENE CHLORIDE	7.00 UG/KG		UJ												
STYRENE	6.00 UG/KG		U												
TETRACHLOROETHENE	6.00 UG/KG		U												
TOLUENE	200.00 UG/KG		-												
TRANS-1,3-DICHLOROPROPENE	6.00 UG/KG		U												
TRICHLOROETHENE	6.00 UG/KG		U												
VINYL ACETATE	12.00 UG/KG		U												
VINYL CHLORIDE	12.00 UG/KG		U												
XYLENES, TOTAL	69.00 UG/KG		-												

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099557	099558	099559	099560	099562
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	6-6.50	6-6.50	6-6.50	6-6.50	6-6.50
DATE COLLECTED:	22-MAY-91	22-MAY-91	22-MAY-91	22-MAY-91	22-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM							4990.00 MG/KG		-						
ANTIMONY							26.30 MG/KG		J						
ARSENIC							4.50 MG/KG		J						
BARIUM							41.90 MG/KG		-						
BERYLLIUM							0.65 MG/KG		-						
CADMIUM							5.80 MG/KG		-						
CALCIUM							92800.00 MG/KG		J						
CHROMIUM							12.10 MG/KG		-						
COBALT							9.80 MG/KG		-						
COPPER							19.50 MG/KG		-						
CYANIDE										0.26 MG/KG		-			
IRON							13600.00 MG/KG		-						
LEAD							8.30 MG/KG		-						
MAGNESIUM							28500.00 MG/KG		-						
MANGANESE							324.00 MG/KG		-						
MERCURY	0.11 MG/KG		U												
MOLYBDENUM							3.80 MG/KG		-						
NICKEL							26.00 MG/KG		-						
POTASSIUM							590.00 MG/KG		-						
SELENIUM							0.44 MG/KG		UJ						
SILVER							7.70 MG/KG		-						
SODIUM							98.70 MG/KG		-						
THALLIUM							0.88 MG/KG		UJ						
VANADIUM							17.40 MG/KG		-						
ZINC							33.10 MG/KG		-						
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				410.00 UG/KG		U									
1,2-DICHLOROBENZENE				410.00 UG/KG		U									

000193

SAMPLE NUMBER:	099557			099558			099559			099560			099562		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,3-DICHLOROBENZENE				410.00 UG/KG		U									
1,4-DICHLOROBENZENE				410.00 UG/KG		U									
2,4,5-TRICHLOROPHENOL				2000.00 UG/KG		U									
2,4,6-TRICHLOROPHENOL				410.00 UG/KG		U									
2,4-DICHLOROPHENOL				410.00 UG/KG		U									
2,4-DIMETHYLPHENOL				410.00 UG/KG		U									
2,4-DINITROPHENOL				2000.00 UG/KG		U									
2,4-DINITROTOLUENE				410.00 UG/KG		U									
2,6-DINITROTOLUENE				410.00 UG/KG		U									
2-CHLORONAPHTHALENE				410.00 UG/KG		U									
2-CHLOROPHENOL				410.00 UG/KG		U									
2-METHYLNAPHTHALENE				410.00 UG/KG		U									
2-METHYLPHENOL				410.00 UG/KG		U									
2-NITROANILINE				2000.00 UG/KG		U									
2-NITROPHENOL				410.00 UG/KG		U									
3,3'-DICHLOROBENZIDINE				820.00 UG/KG		U									
3-NITROANILINE				2000.00 UG/KG		U									
4,6-DINITRO-2-METHYLPHENOL				2000.00 UG/KG		U									
4-BROMOPHENYL PHENYL ETHER				410.00 UG/KG		U									
4-CHLORO-3-METHYLPHENOL				410.00 UG/KG		U									
4-CHLOROPHENYLPHENYL ETHER				410.00 UG/KG		U									
4-METHYLPHENOL				410.00 UG/KG		U									
4-NITROANILINE				2000.00 UG/KG		U									
4-NITROPHENOL				2000.00 UG/KG		U									
ACENAPHTHENE				410.00 UG/KG		U									
ACENAPHTHYLENE				410.00 UG/KG		U									
ANTHRACENE				410.00 UG/KG		U									
BENZO(A)ANTHRACENE				410.00 UG/KG		U									
BENZO(A)PYRENE				410.00 UG/KG		U									
BENZO(B)FLUORANTHENE				410.00 UG/KG		U									
BENZO(G,H,I)PERYLENE				410.00 UG/KG		U									
BENZO(K)FLUORANTHENE				410.00 UG/KG		U									
BENZOIC ACID				2000.00 UG/KG		U									
BENZYL ALCOHOL				410.00 UG/KG		U									
BIS(2-CHLOROETHOXY)METHANE				410.00 UG/KG		U									
BIS(2-CHLOROETHYL)ETHER				410.00 UG/KG		U									
BIS(2-CHLOROISOPROPYL) ETHER				410.00 UG/KG		U									
BIS(2-ETHYLHEXYL)PHTHALATE				410.00 UG/KG		U									
BUTYL BENZYL PHTHALATE				410.00 UG/KG		U									
CHRYSENE				410.00 UG/KG		U									
DI-N-BUTYL PHTHALATE				54.00 UG/KG		J									
DI-N-OCTYL PHTHALATE				410.00 UG/KG		U									
DIBENZO(A,H)ANTHRACENE				410.00 UG/KG		U									
DIBENZOFURAN				410.00 UG/KG		U									
DIETHYL PHTHALATE				410.00 UG/KG		U									

000194

5704

SAMPLE NUMBER:	099557			099558			099559			099560			099562		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIMETHYL PHTHALATE				410.00 UG/KG		U									
FLUORANTHENE				410.00 UG/KG		U									
FLUORENE				410.00 UG/KG		U									
HEXACHLOROBENZENE				410.00 UG/KG		U									
HEXACHLOROBUTADIENE				410.00 UG/KG		U									
HEXACHLOROCYCLOPENTADIENE				410.00 UG/KG		UJ									
HEXACHLOROETHANE				410.00 UG/KG		U									
INDENO(1,2,3-CD)PYRENE				410.00 UG/KG		U									
ISOPHORONE				410.00 UG/KG		U									
N-NITROSO-DI-N-PROPYLAMINE				410.00 UG/KG		U									
N-NITROSODIPHENYLAMINE				410.00 UG/KG		U									
NAPHTHALENE				410.00 UG/KG		U									
NITROBENZENE				410.00 UG/KG		U									
P-CHLOROANILINE				410.00 UG/KG		U									
PENTACHLOROPHENOL				2000.00 UG/KG		U									
PHENANTHRENE				410.00 UG/KG		U									
PHENOL				410.00 UG/KG		U									
PYRENE				410.00 UG/KG		U									
TRIBUTYL PHOSPHATE				410.00 UG/KG		UJ									

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099563	099579	099580	099581	099583
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:		IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	6-6.50	6-6.50	6-6.50	6-6.50	6-6.50
DATE COLLECTED:	22-MAY-91	23-MAY-91	23-MAY-91	23-MAY-91	23-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM							11800.00 MG/KG		-						
ANTIMONY							27.60 MG/KG		J						
ARSENIC							7.30 MG/KG		-						
BARIUM							95.10 MG/KG		-						
BERYLLIUM							1.10 MG/KG		J						
CADMIUM							4.60 MG/KG		-						
CALCIUM							49000.00 MG/KG		J						
CHROMIUM							20.60 MG/KG		-						
COBALT							13.90 MG/KG		-						
COPPER							23.70 MG/KG		-						
CYANIDE										0.13 MG/KG		-			
IRON							24700.00 MG/KG		-						
LEAD							13.60 MG/KG		-						
MAGNESIUM							16200.00 MG/KG		-						
MANGANESE							525.00 MG/KG		-						
MERCURY													0.12 MG/KG		U
MOLYBDENUM							3.50 MG/KG		-						
NICKEL							29.70 MG/KG		-						
POTASSIUM							926.00 MG/KG		-						
SELENIUM							0.48 MG/KG		U						
SILVER							8.00 MG/KG		-						
SODIUM							91.30 MG/KG		J						
THALLIUM							1.10 MG/KG		UJ						
VANADIUM							28.20 MG/KG		-						
ZINC							58.00 MG/KG		-						
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				370.00 UG/KG		U									
1,2-DICHLOROBENZENE				370.00 UG/KG		U									

000196

5704

SAMPLE NUMBER:	099563			099579			099580			099581			099583		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,3-DICHLOROBENZENE				370.00 UG/KG		U									
1,4-DICHLOROBENZENE				370.00 UG/KG		U									
2,4,5-TRICHLOROPHENOL				1800.00 UG/KG		U									
2,4,6-TRICHLOROPHENOL				370.00 UG/KG		U									
2,4-DICHLOROPHENOL				370.00 UG/KG		U									
2,4-DIMETHYLPHENOL				370.00 UG/KG		U									
2,4-DINITROPHENOL				1800.00 UG/KG		U									
2,4-DINITROTOLUENE				370.00 UG/KG		U									
2,6-DINITROTOLUENE				370.00 UG/KG		U									
2-CHLORONAPHTHALENE				370.00 UG/KG		U									
2-CHLOROPHENOL				370.00 UG/KG		U									
2-METHYLNAPHTHALENE				370.00 UG/KG		U									
2-METHYLPHENOL				370.00 UG/KG		U									
2-NITROANILINE				1800.00 UG/KG		U									
2-NITROPHENOL				370.00 UG/KG		U									
3,3'-DICHLOROBENZIDINE				750.00 UG/KG		U									
3-NITROANILINE				1800.00 UG/KG		U									
4,6-DINITRO-2-METHYLPHENOL				1800.00 UG/KG		U									
4-BROMOPHENYL PHENYL ETHER				370.00 UG/KG		U									
4-CHLORO-3-METHYLPHENOL				370.00 UG/KG		U									
4-CHLOROPHENYLPHENYL ETHER				370.00 UG/KG		U									
4-METHYLPHENOL				370.00 UG/KG		U									
4-NITROANILINE				1800.00 UG/KG		U									
4-NITROPHENOL				1800.00 UG/KG		U									
ACENAPHTHENE				370.00 UG/KG		U									
ACENAPHTHYLENE				370.00 UG/KG		U									
ANTHRACENE				370.00 UG/KG		U									
BENZO(A)ANTHRACENE				370.00 UG/KG		U									
BENZO(A)PYRENE				370.00 UG/KG		U									
BENZO(B)FLUORANTHENE				370.00 UG/KG		U									
BENZO(G,H,I)PERYLENE				370.00 UG/KG		U									
BENZO(K)FLUORANTHENE				370.00 UG/KG		U									
BENZOIC ACID				1800.00 UG/KG		U									
BENZYL ALCOHOL				370.00 UG/KG		U									
BIS(2-CHLOROETHOXY)METHANE				370.00 UG/KG		U									
BIS(2-CHLOROETHYL)ETHER				370.00 UG/KG		U									
BIS(2-CHLOROISOPROPYL) ETHER				370.00 UG/KG		U									
BIS(2-ETHYLHEXYL)PHTHALATE				370.00 UG/KG		U									
BUTYL BENZYL PHTHALATE				370.00 UG/KG		U									
CHRYSENE				370.00 UG/KG		U									
DI-N-BUTYL PHTHALATE				370.00 UG/KG		U									
DI-N-OCTYL PHTHALATE				370.00 UG/KG		UJ									
DIBENZO(A,H)ANTHRACENE				370.00 UG/KG		U									
DIBENZOFURAN				370.00 UG/KG		U									
DIETHYL PHTHALATE				370.00 UG/KG		U									

000197

SAMPLE NUMBER:	099563			099579			099580			099581			099583		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIMETHYL PHTHALATE				370.00 UG/KG		U									
FLUORANTHENE				370.00 UG/KG		U									
FLUORENE				370.00 UG/KG		U									
HEXACHLOROBENZENE				370.00 UG/KG		U									
HEXACHLOROBUTADIENE				370.00 UG/KG		U									
HEXACHLOROCYCLOPENTADIENE				370.00 UG/KG		UJ									
HEXACHLOROETHANE				370.00 UG/KG		U									
INDENO(1,2,3-CD)PYRENE				370.00 UG/KG		U									
ISOPHORONE				370.00 UG/KG		U									
N-NITROSO-DI-N-PROPYLAMINE				370.00 UG/KG		U									
N-NITROSODIPHENYLAMINE				370.00 UG/KG		U									
NAPHTHALENE				370.00 UG/KG		U									
NITROBENZENE				370.00 UG/KG		U									
P-CHLOROANILINE				370.00 UG/KG		U									
PENTACHLOROPHENOL				1800.00 UG/KG		U									
PHENANTHRENE				370.00 UG/KG		U									
PHENOL				370.00 UG/KG		U									
PYRENE				370.00 UG/KG		U									
TRIBUTYL PHOSPHATE				370.00 UG/KG		UJ									

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099548	099549	099550	099554	099571
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:		IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	13-14	14-15	15-16	19-20	24-25
DATE COLLECTED:	22-MAY-91	22-MAY-91	22-MAY-91	22-MAY-91	23-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238				1.59 PCI/G	.26	-				1.12 PCI/G	.22	-	1.10 PCI/G	.2	-
URANIUM, TOTAL				5.35 MG/KG	2.56	J				3.92 MG/KG	2.32	J	4.02 MG/KG	2.48	J
URANIUM-234				1.44 PCI/G	.24	-				1.39 PCI/G	.25	-	0.99 PCI/G	.18	-
THORIUM-230				1.33 PCI/G	.32	J				1.28 PCI/G	.36	J	1.32 PCI/G	.34	J
RADIUM-226				0.96 PCI/G	.12	J				0.96 PCI/G	.12	J	1.22 PCI/G	.14	J
LEAD-210				0.77 PCI/G	.4	J				0.95 PCI/G	.38	J	0.79 PCI/G	.395	J
POLONIUM-210				1.92 PCI/G	.53	J				1.46 PCI/G	.43	J	32.50 PCI/G	4.9	J
URANIUM-235/236				0.60 PCI/G		U				0.60 PCI/G		U	0.60 PCI/G		U
THORIUM-232				1.06 PCI/G	.28	J				0.89 PCI/G	.29	J	0.89 PCI/G	.27	J
THORIUM, TOTAL				9.59 MG/KG	2.48	J				8.07 MG/KG	2.65	J	8.03 MG/KG	2.43	J
RADIUM-228				0.70 PCI/G	.19	J				0.96 PCI/G	.2	J	1.14 PCI/G	.22	J
THORIUM-228				1.45 PCI/G	.33	J				1.17 PCI/G	.34	J	1.33 PCI/G	.34	J
NEPTUNIUM-237				0.60 PCI/G		U				0.60 PCI/G		U	0.60 PCI/G		UJ
PLUTONIUM-239/240				0.60 PCI/G		U				0.60 PCI/G		U	0.60 PCI/G		U
PLUTONIUM-238				0.60 PCI/G		U				0.60 PCI/G		U	0.60 PCI/G		U
STRONTIUM-90				0.50 PCI/G		U				0.50 PCI/G		U	0.50 PCI/G		U
TECHNETIUM-99				1.00 PCI/G		UJ				1.00 PCI/G		UJ	1.00 PCI/G		UJ
RUTHENIUM-106				1.00 PCI/G		UJ				1.00 PCI/G		UJ	1.00 PCI/G		UJ
CESIUM-137				0.20 PCI/G		UJ				0.20 PCI/G		UJ	0.20 PCI/G		UJ
ACTINIUM-227				0.60 PCI/G		UJ				0.60 PCI/G		UJ	0.60 PCI/G		UJ
PROTACTINIUM-231				1.50 PCI/G		UJ				1.50 PCI/G		UJ	1.60 PCI/G		UJ
VOLATILES															
1,1,1-TRICHLOROETHANE							6.00 UG/KG		U						
1,1,2,2-TETRACHLOROETHANE							6.00 UG/KG		U						
1,1,2-TRICHLOROETHANE							6.00 UG/KG		U						
1,1-DICHLOROETHANE							6.00 UG/KG		U						
1,1-DICHLOROETHENE							6.00 UG/KG		U						
1,2-DICHLOROETHANE							6.00 UG/KG		U						

SAMPLE NUMBER:	099548			099549			099550			099554			099571		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHENE (TOTAL)							6.00 UG/KG		U						
1,2-DICHLOROPROPANE							6.00 UG/KG		U						
2-BUTANONE							6.00 UG/KG		J						
2-HEXANONE							12.00 UG/KG		U						
4-METHYL-2-PENTANONE							12.00 UG/KG		U						
ACETONE							12.00 UG/KG		-						
BENZENE							6.00 UG/KG		U						
BROMODICHLOROMETHANE							6.00 UG/KG		U						
BROMOFORM							6.00 UG/KG		U						
BROMOMETHANE							12.00 UG/KG		U						
CARBON DISULFIDE							6.00 UG/KG		U						
CARBON TETRACHLORIDE							6.00 UG/KG		U						
CHLOROBENZENE							6.00 UG/KG		U						
CHLOROETHANE							12.00 UG/KG		U						
CHLOROFORM							6.00 UG/KG		U						
CHLOROMETHANE							12.00 UG/KG		U						
CIS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
DIBROMOCHLOROMETHANE							6.00 UG/KG		U						
ETHYLBENZENE							6.00 UG/KG		U						
METHYLENE CHLORIDE							4.00 UG/KG		J						
STYRENE							6.00 UG/KG		U						
TETRACHLOROETHENE							6.00 UG/KG		U						
TOLUENE							6.00 UG/KG		J						
TRANS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
TRICHLOROETHENE							6.00 UG/KG		U						
VINYL ACETATE							12.00 UG/KG		U						
VINYL CHLORIDE							12.00 UG/KG		U						
XYLENES, TOTAL							6.00 UG/KG		U						

SAMPLE NUMBER:	099572			099573			099576			099593			099594		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,3-DICHLOROBENZENE										410.00 UG/KG		U			
1,4-DICHLOROBENZENE										410.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL										2000.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL										410.00 UG/KG		U			
2,4-DICHLOROPHENOL										410.00 UG/KG		U			
2,4-DIMETHYLPHENOL										410.00 UG/KG		U			
2,4-DINITROPHENOL										2000.00 UG/KG		UJ			
2,4-DINITROTOLUENE										410.00 UG/KG		U			
2,6-DINITROTOLUENE										410.00 UG/KG		U			
2-CHLORONAPHTHALENE										410.00 UG/KG		U			
2-CHLOROPHENOL										410.00 UG/KG		U			
2-METHYLNAPHTHALENE										410.00 UG/KG		U			
2-METHYLPHENOL										410.00 UG/KG		U			
2-NITROANILINE										2000.00 UG/KG		U			
2-NITROPHENOL										410.00 UG/KG		U			
3,3'-DICHLOROBENZIDINE										820.00 UG/KG		U			
3-NITROANILINE										2000.00 UG/KG		U			
4,6-DINITRO-2-METHYLPHENOL										2000.00 UG/KG		UJ			
4-BROMOPHENYL PHENYL ETHER										410.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL										410.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER										410.00 UG/KG		U			
4-METHYLPHENOL										410.00 UG/KG		U			
4-NITROANILINE										2000.00 UG/KG		U			
4-NITROPHENOL										2000.00 UG/KG		U			
ACENAPHTHENE										410.00 UG/KG		U			
ACENAPHTHYLENE										410.00 UG/KG		U			
ANTHRACENE										410.00 UG/KG		U			
BENZO(A)ANTHRACENE										410.00 UG/KG		U			
BENZO(A)PYRENE										410.00 UG/KG		U			
BENZO(B)FLUORANTHENE										410.00 UG/KG		U			
BENZO(G,H,I)PERYLENE										410.00 UG/KG		U			
BENZO(K)FLUORANTHENE										410.00 UG/KG		U			
BENZOIC ACID										2000.00 UG/KG		UJ			
BENZYL ALCOHOL										410.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE										410.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER										410.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER										410.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE										410.00 UG/KG		U			
BUTYL BENZYL PHTHALATE										410.00 UG/KG		U			
CHRYSENE										410.00 UG/KG		U			
DI-N-BUTYL PHTHALATE										410.00 UG/KG		U			
DI-N-OCTYL PHTHALATE										410.00 UG/KG		U			
DIBENZO(A,H)ANTHRACENE										410.00 UG/KG		U			
DIBENZOFURAN										410.00 UG/KG		U			
DIETHYL PHTHALATE										410.00 UG/KG		U			

SAMPLE NUMBER:	099572			099573			099576			099593			099594		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIMETHYL PHTHALATE										410.00 UG/KG		U			
FLUORANTHENE										410.00 UG/KG		U			
FLUORENE										410.00 UG/KG		U			
HEXACHLOROBENZENE										410.00 UG/KG		U			
HEXACHLOROBUTADIENE										410.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE										410.00 UG/KG		U			
HEXACHLOROETHANE										410.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE										410.00 UG/KG		U			
ISOPHORONE										410.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE										410.00 UG/KG		U			
N-NITROSODIPHENYLAMINE										410.00 UG/KG		U			
NAPHTHALENE										410.00 UG/KG		U			
NITROBENZENE										410.00 UG/KG		U			
P-CHLOROANILINE										410.00 UG/KG		U			
PENTACHLOROPHENOL										2000.00 UG/KG		U			
PHENANTHRENE										410.00 UG/KG		U			
PHENOL										110.00 UG/KG		U			
PYRENE										410.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE	6.00 UG/KG		U												
1,1,2,2-TETRACHLOROETHANE	6.00 UG/KG		U												
1,1,2-TRICHLOROETHANE	6.00 UG/KG		U												
1,1-DICHLOROETHANE	6.00 UG/KG		U												
1,1-DICHLOROETHENE	6.00 UG/KG		U												
1,2-DICHLOROETHANE	6.00 UG/KG		U												
1,2-DICHLOROETHENE (TOTAL)	6.00 UG/KG		U												
1,2-DICHLOROPROPANE	6.00 UG/KG		U												
2-BUTANONE	10.00 UG/KG		J												
2-HEXANONE	13.00 UG/KG		U												
4-METHYL-2-PENTANONE	13.00 UG/KG		U												
ACETONE	23.00 UG/KG		-												
BENZENE	6.00 UG/KG		U												
BROMODICHLOROMETHANE	6.00 UG/KG		U												
BROMOFORM	6.00 UG/KG		U												
BROMOMETHANE	13.00 UG/KG		U												
CARBON DISULFIDE	6.00 UG/KG		U												
CARBON TETRACHLORIDE	6.00 UG/KG		U												
CHLOROBENZENE	6.00 UG/KG		U												
CHLOROETHANE	13.00 UG/KG		U												
CHLOROFORM	6.00 UG/KG		U												
CHLOROMETHANE	13.00 UG/KG		U												
CIS-1,3-DICHLOROPROPENE	6.00 UG/KG		U												
DIBROMOCHLOROMETHANE	6.00 UG/KG		U												

SAMPLE NUMBER:	099572			099573			099576			099593			099594		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
ETHYLBENZENE	6.00 UG/KG		U												
METHYLENE CHLORIDE	4.00 UG/KG		J												
STYRENE	6.00 UG/KG		U												
TETRACHLOROETHENE	6.00 UG/KG		U												
TOLUENE	6.00 UG/KG		U												
TRANS-1,3-DICHLOROPROPENE	6.00 UG/KG		U												
TRICHLOROETHENE	6.00 UG/KG		U												
VINYL ACETATE	13.00 UG/KG		U												
VINYL CHLORIDE	13.00 UG/KG		U												
XYLENES, TOTAL	6.00 UG/KG		U												

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099595	099596	099588	099590	099592
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT		IT		IT
WELL OR BORING NUMBER:	1622	1622	1622	1622	1622
DEPTH:	0-10	0-10	0-1	2-3	4-5
DATE COLLECTED:	29-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	NONE-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	10100.00 MG/KG		-												
ANTIMONY	19.10 MG/KG		J												
ARSENIC	5.60 MG/KG		-												
BARIUM	69.60 MG/KG		-												
BERYLLIUM	0.67 MG/KG		-												
CADMIUM	2.60 MG/KG		J												
CALCIUM	30000.00 MG/KG		J												
CHROMIUM	16.40 MG/KG		-												
COBALT	11.30 MG/KG		-												
COPPER	19.30 MG/KG		J												
IRON	20900.00 MG/KG		J												
LEAD	11.90 MG/KG		-												
MAGNESIUM	6390.00 MG/KG		-												
MANGANESE	395.00 MG/KG		-												
MOLYBDENUM	2.40 MG/KG		-												
NICKEL	21.70 MG/KG		-												
POTASSIUM	711.00 MG/KG		-												
SELENIUM	0.48 MG/KG		UJ												
SILVER	5.80 MG/KG		-												
SODIUM	77.70 MG/KG		-												
THALLIUM	0.71 MG/KG		J												
VANADIUM	24.60 MG/KG		-												
ZINC	48.60 MG/KG		-												
RADIONUCLIDES															
URANIUM-238													1.13 PCI/G	.22	-
URANIUM, TOTAL													6.46 MG/KG	2.6	R
URANIUM-234													1.34 PCI/G	.24	-
THORIUM-230													2.83 PCI/G	.65	-

000204

5204

SAMPLE NUMBER:	099595			099596			099588			099590			099592		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RADIUM-226													1.62 PCI/G	.16	R
LEAD-210													1.39 PCI/G	.39	J
POLONIUM-210													2.22 PCI/G	.83	J
URANIUM-235/236													0.60 PCI/G		U
THORIUM-232													1.45 PCI/G	.42	-
THORIUM, TOTAL													13.10 MG/KG	3.7	-
RADIUM-228													1.32 PCI/G	.2	R
THORIUM-228													1.49 PCI/G	.42	-
ACTINIUM-227													0.60 PCI/G		U
PROTACTINIUM-231													1.70 PCI/G		R
RADIUM-224													1.20 PCI/G	1.53	R
VOLATILES															
1,1,1-TRICHLOROETHANE							6.00 UG/KG		U						
1,1,2,2-TETRACHLOROETHANE							6.00 UG/KG		U						
1,1,2-TRICHLOROETHANE							6.00 UG/KG		U						
1,1-DICHLOROETHANE							6.00 UG/KG		U						
1,1-DICHLOROETHENE							6.00 UG/KG		U						
1,2-DICHLOROETHANE							6.00 UG/KG		U						
1,2-DICHLOROETHENE (TOTAL)							6.00 UG/KG		U						
1,2-DICHLOROPROPANE							6.00 UG/KG		U						
2-BUTANONE							12.00 UG/KG		U						
2-HEXANONE							12.00 UG/KG		UJ						
4-METHYL-2-PENTANONE							12.00 UG/KG		U						
ACETONE							12.00 UG/KG		UJ						
BENZENE							6.00 UG/KG		U						
BROMODICHLOROMETHANE							6.00 UG/KG		U						
BROMOFORM							6.00 UG/KG		U						
BROMOMETHANE							12.00 UG/KG		U						
CARBON DISULFIDE							6.00 UG/KG		U						
CARBON TETRACHLORIDE							6.00 UG/KG		U						
CHLOROBENZENE							6.00 UG/KG		U						
CHLOROETHANE							12.00 UG/KG		U						
CHLOROFORM							6.00 UG/KG		U						
CHLOROMETHANE							12.00 UG/KG		U						
CIS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
DIBROMOCHLOROMETHANE							6.00 UG/KG		U						
ETHYLBENZENE							6.00 UG/KG		U						
METHYLENE CHLORIDE							6.00 UG/KG		U						
STYRENE							6.00 UG/KG		U						
TETRACHLOROETHENE							6.00 UG/KG		U						
TOLUENE							2.00 UG/KG		J						
TRANS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
TRICHLOROETHENE							6.00 UG/KG		U						

SAMPLE NUMBER:	099595			099596			099588			099590			099592		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
VINYL ACETATE							12.00 UG/KG		U						
VINYL CHLORIDE							12.00 UG/KG		U						
XYLENES, TOTAL							6.00 UG/KG		U						

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099600	099601	099602	099603	099606
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:		IT	IT		IT
WELL OR BORING NUMBER:	1622	1622	1622	1622	1622
DEPTH:	13-14	14-15	15-16	16-17	19-20
DATE COLLECTED:	30-MAY-91	30-MAY-91	30-MAY-91	30-MAY-91	30-MAY-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-NA	NONE-NA	-	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238				0.75 PCI/G	.16	-							1.29 PCI/G	.24	-
URANIUM, TOTAL				1.99 MG/KG	1.8	-							9.56 MG/KG	2.1	-
URANIUM-234				0.81 PCI/G	.17	-							1.34 PCI/G	.24	-
THORIUM-230				0.95 PCI/G	.45	-							0.90 PCI/G	.39	-
RADIUM-226				0.65 PCI/G	.09	J							0.62 PCI/G	.09	J
LEAD-210				0.62 PCI/G	.3	J							0.69 PCI/G	.28	J
POLONIUM-210				1.03 PCI/G	.53	J							1.44 PCI/G	.46	J
URANIUM-235/236				0.60 PCI/G		U							0.60 PCI/G		U
THORIUM-232				0.60 PCI/G		U							0.60 PCI/G		U
THORIUM, TOTAL				4.00 MG/KG		U							3.57 MG/KG	2.48	-
RADIUM-228				0.53 PCI/G	.14	J							0.53 PCI/G	.15	J
THORIUM-228				1.84 PCI/G	.65	-							1.58 PCI/G	.54	-
ACTINIUM-227				0.60 PCI/G		UJ							0.60 PCI/G		UJ
PROTACTINIUM-231				1.30 PCI/G		UJ							1.30 PCI/G		UJ
RADIUM-224				0.55 PCI/G	.09	J							0.57 PCI/G	.09	J
VOLATILES															
1,1,1-TRICHLOROETHANE							6.00 UG/KG		U						
1,1,2,2-TETRACHLOROETHANE							6.00 UG/KG		U						
1,1,2-TRICHLOROETHANE							6.00 UG/KG		U						
1,1-DICHLOROETHANE							6.00 UG/KG		UJ						
1,1-DICHLOROETHENE							6.00 UG/KG		U						
1,2-DICHLOROETHANE							6.00 UG/KG		U						
1,2-DICHLOROETHENE (TOTAL)							6.00 UG/KG		U						
1,2-DICHLOROPROPANE							6.00 UG/KG		U						
2-BUTANONE							12.00 UG/KG		UJ						
2-HEXANONE							12.00 UG/KG		U						
4-METHYL-2-PENTANONE							12.00 UG/KG		U						
ACETONE							12.00 UG/KG		UJ						

000207

SAMPLE NUMBER:	099600			099601			099602			099603			099606		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BENZENE							6.00 UG/KG		U						
BROMODICHLOROMETHANE							6.00 UG/KG		U						
BROMOFORM							6.00 UG/KG		U						
BROMOMETHANE							12.00 UG/KG		U						
CARBON DISULFIDE							6.00 UG/KG		U						
CARBON TETRACHLORIDE							6.00 UG/KG		U						
CHLOROBENZENE							6.00 UG/KG		U						
CHLOROETHANE							12.00 UG/KG		U						
CHLOROFORM							6.00 UG/KG		U						
CHLOROMETHANE							12.00 UG/KG		U						
CIS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
DIBROMOCHLOROMETHANE							6.00 UG/KG		U						
ETHYLBENZENE							6.00 UG/KG		U						
METHYLENE CHLORIDE							6.00 UG/KG		U						
STYRENE							6.00 UG/KG		U						
TETRACHLOROETHENE							6.00 UG/KG		U						
TOLUENE							6.00 UG/KG		-						
TRANS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
TRICHLOROETHENE							6.00 UG/KG		U						
VINYL ACETATE							12.00 UG/KG		U						
VINYL CHLORIDE							12.00 UG/KG		U						
XYLENES, TOTAL							6.00 UG/KG		U						

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099607	099608	099609	099610	099612
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	
WELL OR BORING NUMBER:	1622	1622	1622	1622	1622
DEPTH:	10-20	10-20	10-20	10-20	10-20
DATE COLLECTED:	30-MAY-91	30-MAY-91	30-MAY-91	30-MAY-91	30-MAY-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM							4530.00 MG/KG		-						
ANTIMONY							32.90 MG/KG		UR						
ARSENIC							4.10 MG/KG		-						
BARIUM							30.50 MG/KG		-						
BERYLLIUM							2.20 MG/KG		U						
CADMIUM							7.50 MG/KG		-						
CALCIUM							161000.00 MG/KG		-						
CHROMIUM							20.80 MG/KG		-						
COBALT							11.00 MG/KG		U						
COPPER							20.50 MG/KG		-						
CYANIDE										1.20 MG/KG		-			
IRON							11200.00 MG/KG		-						
LEAD							6.10 MG/KG		R						
MAGNESIUM							40700.00 MG/KG		-						
MANGANESE							330.00 MG/KG		-						
MERCURY	0.11 MG/KG		U												
MOLYBDENUM							11.00 MG/KG		U						
NICKEL							31.70 MG/KG		-						
POTASSIUM							993.00 MG/KG		-						
SELENIUM							0.44 MG/KG		U						
SILVER							19.20 MG/KG		-						
SODIUM							237.00 MG/KG		-						
THALLIUM							0.44 MG/KG		U						
VANADIUM							21.80 MG/KG		-						
ZINC							30.70 MG/KG		-						
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				390.00 UG/KG		U									
1,2-DICHLOROBENZENE				390.00 UG/KG		U									

000209

SAMPLE NUMBER:	099607			099608			099609			099610			099612		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,3-DICHLOROBENZENE				390.00 UG/KG		U									
1,4-DICHLOROBENZENE				390.00 UG/KG		U									
2,4,5-TRICHLOROPHENOL				1900.00 UG/KG		U									
2,4,6-TRICHLOROPHENOL				390.00 UG/KG		U									
2,4-DICHLOROPHENOL				390.00 UG/KG		U									
2,4-DIMETHYLPHENOL				390.00 UG/KG		U									
2,4-DINITROPHENOL				1900.00 UG/KG		UJ									
2,4-DINITROTOLUENE				390.00 UG/KG		U									
2,6-DINITROTOLUENE				390.00 UG/KG		U									
2-CHLORONAPHTHALENE				390.00 UG/KG		U									
2-CHLOROPHENOL				390.00 UG/KG		U									
2-METHYLNAPHTHALENE				390.00 UG/KG		U									
2-METHYLPHENOL				390.00 UG/KG		U									
2-NITROANILINE				1900.00 UG/KG		U									
2-NITROPHENOL				390.00 UG/KG		U									
3,3'-DICHLOROBENZIDINE				770.00 UG/KG		U									
3-NITROANILINE				1900.00 UG/KG		UJ									
4,6-DINITRO-2-METHYLPHENOL				1900.00 UG/KG		UJ									
4-BROMOPHENYL PHENYL ETHER				390.00 UG/KG		U									
4-CHLORO-3-METHYLPHENOL				390.00 UG/KG		U									
4-CHLOROPHENYLPHENYL ETHER				390.00 UG/KG		U									
4-METHYLPHENOL				390.00 UG/KG		U									
4-NITROANILINE				1900.00 UG/KG		U									
4-NITROPHENOL				1900.00 UG/KG		U									
ACENAPHTHENE				390.00 UG/KG		U									
ACENAPHTHYLENE				390.00 UG/KG		U									
ANTHRACENE				390.00 UG/KG		U									
BENZO(A)ANTHRACENE				390.00 UG/KG		U									
BENZO(A)PYRENE				390.00 UG/KG		U									
BENZO(B)FLUORANTHENE				390.00 UG/KG		U									
BENZO(G,H,I)PERYLENE				390.00 UG/KG		U									
BENZO(K)FLUORANTHENE				390.00 UG/KG		U									
BENZOIC ACID				1900.00 UG/KG		UJ									
BENZYL ALCOHOL				390.00 UG/KG		U									
BIS(2-CHLOROETHOXY)METHANE				390.00 UG/KG		U									
BIS(2-CHLOROETHYL)ETHER				390.00 UG/KG		U									
BIS(2-CHLOROISOPROPYL) ETHER				390.00 UG/KG		U									
BIS(2-ETHYLHEXYL)PHTHALATE				390.00 UG/KG		U									
BUTYL BENZYL PHTHALATE				390.00 UG/KG		U									
CHRYSENE				390.00 UG/KG		U									
DI-N-BUTYL PHTHALATE				390.00 UG/KG		U									
DI-N-OCTYL PHTHALATE				97.00 UG/KG		J									
DIBENZO(A,H)ANTHRACENE				390.00 UG/KG		U									
DIBENZOFURAN				390.00 UG/KG		U									
DIETHYL PHTHALATE				390.00 UG/KG		U									

000210

5704

SAMPLE NUMBER:	099607			099608			099609			099610			099612		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIMETHYL PHTHALATE				390.00 UG/KG		U									
FLUORANTHENE				390.00 UG/KG		U									
FLUORENE				390.00 UG/KG		U									
HEXACHLOROBENZENE				390.00 UG/KG		U									
HEXACHLOROBUTADIENE				390.00 UG/KG		U									
HEXACHLOROCYCLOPENTADIENE				390.00 UG/KG		U									
HEXACHLOROETHANE				390.00 UG/KG		U									
INDENO(1,2,3-CD)PYRENE				390.00 UG/KG		U									
ISOPHORONE				390.00 UG/KG		U									
N-NITROSO-DI-N-PROPYLAMINE				390.00 UG/KG		U									
N-NITROSODIPHENYLAMINE				390.00 UG/KG		U									
NAPHTHALENE				390.00 UG/KG		U									
NITROBENZENE				390.00 UG/KG		U									
P-CHLOROANILINE				390.00 UG/KG		U									
PENTACHLOROPHENOL				1900.00 UG/KG		U									
PHENANTHRENE				390.00 UG/KG		U									
PHENOL				390.00 UG/KG		U									
PYRENE				390.00 UG/KG		U									
TRIBUTYL PHOSPHATE				390.00 UG/KG		U									

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099617	099618	099619	099623	099624
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:		IT	IT	IT	IT
WELL OR BORING NUMBER:	1622	1622	1622	1622	1622
DEPTH:	23-24	24-25	25-26	29-30	20-30
DATE COLLECTED:	30-MAY-91	31-MAY-91	31-MAY-91	31-MAY-91	31-MAY-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MERCURY													0.12 MG/KG		U
RADIONUCLIDES															
URANIUM-238				1.38 PCI/G	.24	-				24.70 PCI/G	3.4	J			
URANIUM, TOTAL				14.30 MG/KG	2.9	-				186.00 MG/KG	34	-			
URANIUM-234				1.11 PCI/G	.21	-				24.20 PCI/G	3.4	J			
THORIUM-230				1.01 PCI/G	.31	-				51.20 PCI/G	7.6	-			
RADIUM-226				1.12 PCI/G	.13	J				876.00 PCI/G	51	J			
LEAD-210				1.54 PCI/G	.45	J				417.00 PCI/G	42	J			
POLONIUM-210				1.60 PCI/G	.49	J				943.00 PCI/G	175	J			
URANIUM-235/236				0.60 PCI/G		U				1.31 PCI/G	.43	J			
THORIUM-232				0.92 PCI/G	.29	-				1.08 PCI/G	.29	-			
THORIUM, TOTAL				8.32 MG/KG	2.63	-				9.72 MG/KG	2.6	-			
RADIUM-228				1.11 PCI/G	.21	J				2.50 PCI/G		UJ			
THORIUM-228				1.43 PCI/G	.38	-				14.90 PCI/G	2.3	-			
ACTINIUM-227				0.60 PCI/G		UJ				0.60 PCI/G		UJ			
PROTACTINIUM-231				1.90 PCI/G		UJ				25.30 PCI/G	8.7	J			
RADIUM-224				1.09 PCI/G	.15	J				1.68 PCI/G	.7	J			
VOLATILES															
1,1,1-TRICHLOROETHANE							6.00 UG/KG		U						
1,1,2,2-TETRACHLOROETHANE							6.00 UG/KG		U						
1,1,2-TRICHLOROETHANE							6.00 UG/KG		U						
1,1-DICHLOROETHANE							6.00 UG/KG		U						
1,1-DICHLOROETHENE							6.00 UG/KG		U						
1,2-DICHLOROETHANE							6.00 UG/KG		UJ						
1,2-DICHLOROETHENE (TOTAL)							6.00 UG/KG		U						
1,2-DICHLOROPROPANE							6.00 UG/KG		U						

000212

5704

SAMPLE NUMBER:	099617			099618			099619			099623			099624		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
2-BUTANONE							12.00 UG/KG		UJ						
2-HEXANONE							12.00 UG/KG		UJ						
4-METHYL-2-PENTANONE							12.00 UG/KG		U						
ACETONE							25.00 UG/KG		UJ						
BENZENE							6.00 UG/KG		UJ						
BROMODICHLOROMETHANE							6.00 UG/KG		U						
BROMOFORM							6.00 UG/KG		U						
BROMOMETHANE							12.00 UG/KG		U						
CARBON DISULFIDE							6.00 UG/KG		U						
CARBON TETRACHLORIDE							6.00 UG/KG		U						
CHLOROBENZENE							6.00 UG/KG		UJ						
CHLOROETHANE							12.00 UG/KG		U						
CHLOROFORM							6.00 UG/KG		U						
CHLOROMETHANE							12.00 UG/KG		U						
CIS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
DIBROMOCHLOROMETHANE							6.00 UG/KG		U						
ETHYLBENZENE							6.00 UG/KG		UJ						
METHYLENE CHLORIDE							6.00 UG/KG		U						
STYRENE							6.00 UG/KG		UJ						
TETRACHLOROETHENE							6.00 UG/KG		U						
TOLUENE							4.00 UG/KG		J						
TRANS-1,3-DICHLOROPROPENE							6.00 UG/KG		U						
TRICHLOROETHENE							6.00 UG/KG		U						
VINYL ACETATE							12.00 UG/KG		U						
VINYL CHLORIDE							12.00 UG/KG		U						
XYLENES, TOTAL							6.00 UG/KG		UJ						

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099625	099626	099627	099633	099634
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	
WELL OR BORING NUMBER:	1622	1622	1622	1623	1623
DEPTH:	20-30	20-30	20-30	5-5.50	6-6.50
DATE COLLECTED:	31-MAY-91	31-MAY-91	31-MAY-91	03-JUN-91	03-JUN-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480515.1	480515.1
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378532.07	1378532.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM				10500.00 MG/KG		-									
ANTIMONY				18.60 MG/KG		J									
ARSENIC				8.30 MG/KG		J									
BARIUM				86.40 MG/KG		-									
BERYLLIUM				0.81 MG/KG		-									
CADMIUM				2.50 MG/KG		-									
CALCIUM				11600.00 MG/KG		J									
CHROMIUM				15.70 MG/KG		-									
COBALT				12.60 MG/KG		-									
COPPER				19.50 MG/KG		-									
CYANIDE							0.12 MG/KG		U						
IRON				25800.00 MG/KG		-									
LEAD				12.20 MG/KG		-									
MAGNESIUM				5070.00 MG/KG		-									
MANGANESE				228.00 MG/KG		-									
MOLYBDENUM				2.90 MG/KG		-									
NICKEL				22.20 MG/KG		-									
POTASSIUM				546.00 MG/KG		-									
SELENIUM				0.48 MG/KG		UJ									
SILVER				3.60 MG/KG		-									
SODIUM				47.80 MG/KG		-									
THALLIUM				0.48 MG/KG		U									
VANADIUM				27.70 MG/KG		-									
ZINC				47.10 MG/KG		-									
RADIONUCLIDES															
URANIUM-238										1.26 PCI/G	.23	-			
URANIUM, TOTAL										10.50 MG/KG	2.5	J			
URANIUM-234										1.26 PCI/G	.23	-			

000214

5704

SAMPLE NUMBER:	099625			099626			099627			099633			099634		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM-230										1.69 PCI/G	.39	-			
RADIUM-226										1.04 PCI/G	.13	J			
LEAD-210										0.98 PCI/G	.39	J			
POLONIUM-210										1.68 PCI/G	.52	J			
URANIUM-235/236										0.60 PCI/G		U			
THORIUM-232										0.95 PCI/G	.27	-			
THORIUM, TOTAL										8.53 MG/KG	2.42	-			
RADIUM-228										0.98 PCI/G	.2	J			
THORIUM-228										1.52 PCI/G	.36	-			
ACTINIUM-227										0.60 PCI/G		UJ			
PROTACTINIUM-231										1.70 PCI/G		UJ			
RADIUM-224										1.02 PCI/G	.14	J			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	400.00 UG/KG		U												
1,2-DICHLOROBENZENE	400.00 UG/KG		U												
1,3-DICHLOROBENZENE	400.00 UG/KG		U												
1,4-DICHLOROBENZENE	400.00 UG/KG		U												
2,4,5-TRICHLOROPHENOL	2000.00 UG/KG		U												
2,4,6-TRICHLOROPHENOL	400.00 UG/KG		U												
2,4-DICHLOROPHENOL	400.00 UG/KG		U												
2,4-DIMETHYLPHENOL	400.00 UG/KG		U												
2,4-DINITROPHENOL	2000.00 UG/KG		UJ												
2,4-DINITROTOLUENE	400.00 UG/KG		U												
2,6-DINITROTOLUENE	400.00 UG/KG		U												
2-CHLORONAPHTHALENE	400.00 UG/KG		U												
2-CHLOROPHENOL	400.00 UG/KG		U												
2-METHYLNAPHTHALENE	400.00 UG/KG		U												
2-METHYLPHENOL	400.00 UG/KG		U												
2-NITROANILINE	2000.00 UG/KG		U												
2-NITROPHENOL	400.00 UG/KG		U												
3,3'-DICHLOROBENZIDINE	810.00 UG/KG		U												
3-NITROANILINE	2000.00 UG/KG		UJ												
4,6-DINITRO-2-METHYLPHENOL	2000.00 UG/KG		UJ												
4-BROMOPHENYL PHENYL ETHER	400.00 UG/KG		U												
4-CHLORO-3-METHYLPHENOL	400.00 UG/KG		U												
4-CHLOROPHENYLPHENYL ETHER	400.00 UG/KG		U												
4-METHYLPHENOL	400.00 UG/KG		U												
4-NITROANILINE	2000.00 UG/KG		U												
4-NITROPHENOL	2000.00 UG/KG		U												
ACENAPHTHENE	400.00 UG/KG		U												
ACENAPHTHYLENE	400.00 UG/KG		U												
ANTHRACENE	400.00 UG/KG		U												
BENZO(A)ANTHRACENE	400.00 UG/KG		U												

SAMPLE NUMBER:	099625			099626			099627			099633			099634		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(A)PYRENE	400.00 UG/KG		U												
BENZO(B)FLUORANTHENE	400.00 UG/KG		U												
BENZO(G,H,I)PERYLENE	400.00 UG/KG		U												
BENZO(K)FLUORANTHENE	400.00 UG/KG		U												
BENZOIC ACID	2000.00 UG/KG		UJ												
BENZYL ALCOHOL	400.00 UG/KG		U												
BIS(2-CHLOROETHOXY)METHANE	400.00 UG/KG		U												
BIS(2-CHLOROETHYL)ETHER	400.00 UG/KG		U												
BIS(2-CHLOROISOPROPYL) ETHER	400.00 UG/KG		U												
BIS(2-ETHYLHEXYL)PHTHALATE	400.00 UG/KG		U												
BUTYL BENZYL PHTHALATE	400.00 UG/KG		U												
CHRYSENE	400.00 UG/KG		U												
DI-N-BUTYL PHTHALATE	400.00 UG/KG		U												
DI-N-OCTYL PHTHALATE	82.00 UG/KG		J												
DIBENZO(A,H)ANTHRACENE	400.00 UG/KG		U												
DIBENZOFURAN	400.00 UG/KG		U												
DIETHYL PHTHALATE	120.00 UG/KG		J												
DIMETHYL PHTHALATE	400.00 UG/KG		U												
FLUORANTHENE	400.00 UG/KG		U												
FLUORENE	400.00 UG/KG		U												
HEXACHLOROBENZENE	400.00 UG/KG		U												
HEXACHLOROBUTADIENE	400.00 UG/KG		U												
HEXACHLOROCYCLOPENTADIENE	400.00 UG/KG		U												
HEXACHLOROETHANE	400.00 UG/KG		U												
INDENO(1,2,3-CD)PYRENE	400.00 UG/KG		U												
ISOPHORONE	400.00 UG/KG		U												
N-NITROSO-DI-N-PROPYLAMINE	400.00 UG/KG		U												
N-NITROSODIPHENYLAMINE	400.00 UG/KG		U												
NAPHTHALENE	400.00 UG/KG		U												
NITROBENZENE	400.00 UG/KG		U												
P-CHLOROANILINE	400.00 UG/KG		U												
PENTACHLOROPHENOL	2000.00 UG/KG		U												
PHENANTHRENE	400.00 UG/KG		U												
PHENOL	200.00 UG/KG		U												
PYRENE	400.00 UG/KG		U												
TRIBUTYL PHOSPHATE	400.00 UG/KG		U												

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099653	099654	099659	099660	099661
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT		IT	IT	IT
WELL OR BORING NUMBER:	1623	1623	1623	1623	1623
DEPTH:	15-15.5	16-16.5	16-16.5	16-16.5	16-16.5
DATE COLLECTED:	04-JUN-91	04-JUN-91	04-JUN-91	04-JUN-91	04-JUN-91
NORTH COORDINATE:	480515.1	480515.1	480515.1	480515.1	480515.1
EAST COORDINATE:	1378532.07	1378532.07	1378532.07	1378532.07	1378532.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM													10800.00 MG/KG		-
ANTIMONY													14.60 MG/KG		J
ARSENIC													5.00 MG/KG		-
BARIUM													72.20 MG/KG		-
BERYLLIUM													0.86 MG/KG		-
CADMIUM													4.30 MG/KG		-
CALCIUM													59200.00 MG/KG		-
CHROMIUM													17.50 MG/KG		-
COBALT													10.80 MG/KG		-
COPPER													22.10 MG/KG		-
IRON													20800.00 MG/KG		-
LEAD													13.80 MG/KG		J
MAGNESIUM													22900.00 MG/KG		-
MANGANESE													547.00 MG/KG		-
MERCURY							0.11 MG/KG		UJ						
MOLYBDENUM													2.40 MG/KG		U
NICKEL													28.60 MG/KG		-
POTASSIUM													981.00 MG/KG		-
SELENIUM													0.48 MG/KG		U
SILVER													5.80 MG/KG		-
SODIUM													83.20 MG/KG		-
THALLIUM													0.48 MG/KG		U
VANADIUM													26.00 MG/KG		-
ZINC													52.40 MG/KG		-
RADIONUCLIDES															
URANIUM-238	1.22 PCI/G	.24	-												
URANIUM, TOTAL	13.30 MG/KG	3.1	J												
URANIUM-234	1.43 PCI/G	.26	-												

000217

SAMPLE NUMBER:	099653			099654			099659			099660			099661		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM-230	0.74 PCI/G	.33	J												
RADIUM-226	0.81 PCI/G	.12	J												
LEAD-210	0.84 PCI/G	.39	J												
POLONIUM-210	1.42 PCI/G	.88	J												
URANIUM-235/236	0.60 PCI/G		U												
THORIUM-232	0.60 PCI/G		UJ												
THORIUM, TOTAL	5.17 MG/KG	2.68	J												
RADIUM-228	0.69 PCI/G	.18	J												
THORIUM-228	0.93 PCI/G	.37	J												
ACTINIUM-227	0.60 PCI/G		UJ												
PROTACTINIUM-231	1.70 PCI/G		UJ												
RADIUM-224	0.75 PCI/G	.12	J												
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE										400.00 UG/KG		U			
1,2-DICHLOROBENZENE										400.00 UG/KG		U			
1,3-DICHLOROBENZENE										400.00 UG/KG		U			
1,4-DICHLOROBENZENE										400.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL										1900.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL										400.00 UG/KG		U			
2,4-DICHLOROPHENOL										400.00 UG/KG		U			
2,4-DIMETHYLPHENOL										400.00 UG/KG		U			
2,4-DINITROPHENOL										1900.00 UG/KG		UJ			
2,4-DINITROTOLUENE										400.00 UG/KG		UJ			
2,6-DINITROTOLUENE										400.00 UG/KG		U			
2-CHLORONAPHTHALENE										400.00 UG/KG		U			
2-CHLOROPHENOL										400.00 UG/KG		U			
2-METHYLNAPHTHALENE										400.00 UG/KG		U			
2-METHYLPHENOL										400.00 UG/KG		U			
2-NITROANILINE										1900.00 UG/KG		U			
2-NITROPHENOL										400.00 UG/KG		U			
3,3'-DICHLOROBENZIDINE										800.00 UG/KG		U			
3-NITROANILINE										1900.00 UG/KG		U			
4,6-DINITRO-2-METHYLPHENOL										1900.00 UG/KG		UJ			
4-BROMOPHENYL PHENYL ETHER										400.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL										400.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER										400.00 UG/KG		U			
4-METHYLPHENOL										400.00 UG/KG		U			
4-NITROANILINE										1900.00 UG/KG		UJ			
4-NITROPHENOL										1900.00 UG/KG		U			
ACENAPHTHENE										400.00 UG/KG		U			
ACENAPHTHYLENE										400.00 UG/KG		U			
ANTHRACENE										400.00 UG/KG		U			
BENZO(A)ANTHRACENE										400.00 UG/KG		U			

000218

5704

SAMPLE NUMBER:	099653			099654			099659			099660			099661		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(A)PYRENE										400.00 UG/KG		U			
BENZO(B)FLUORANTHENE										400.00 UG/KG		U			
BENZO(G,H,I)PERYLENE										400.00 UG/KG		U			
BENZO(K)FLUORANTHENE										400.00 UG/KG		U			
BENZOIC ACID										1900.00 UG/KG		UJ			
BENZYL ALCOHOL										400.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE										400.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER										400.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER										400.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE										43.00 UG/KG		J			
BUTYL BENZYL PHTHALATE										400.00 UG/KG		U			
CHRYSENE										400.00 UG/KG		U			
DI-N-BUTYL PHTHALATE										400.00 UG/KG		U			
DI-N-OCTYL PHTHALATE										44.00 UG/KG		J			
DIBENZO(A,H)ANTHRACENE										400.00 UG/KG		U			
DIBENZOFURAN										400.00 UG/KG		U			
DIETHYL PHTHALATE										400.00 UG/KG		U			
DIMETHYL PHTHALATE										400.00 UG/KG		U			
FLUORANTHENE										400.00 UG/KG		U			
FLUORENE										400.00 UG/KG		U			
HEXACHLOROBENZENE										400.00 UG/KG		U			
HEXACHLOROBUTADIENE										400.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE										400.00 UG/KG		U			
HEXACHLOROETHANE										400.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE										400.00 UG/KG		U			
ISOPHORONE										400.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE										400.00 UG/KG		U			
N-NITROSODIPHENYLAMINE										400.00 UG/KG		U			
NAPHTHALENE										400.00 UG/KG		U			
NITROBENZENE										400.00 UG/KG		U			
P-CHLOROANILINE										400.00 UG/KG		U			
PENTACHLOROPHENOL										1900.00 UG/KG		U			
PHENANTHRENE										400.00 UG/KG		U			
PHENOL										400.00 UG/KG		U			
PYRENE										400.00 UG/KG		U			
TRIBUTYL PHOSPHATE										400.00 UG/KG		UJ			

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099662	099663	099658	099669	099670
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT		IT	IT	IT
WELL OR BORING NUMBER:	1623	1623	1623	1623	1623
DEPTH:	16-16.5	16-16.5	20-20.5	24-24.5	25-25.5
DATE COLLECTED:	04-JUN-91	04-JUN-91	04-JUN-91	05-JUN-91	05-JUN-91
NORTH COORDINATE:	480515.1	480515.1	480515.1	480515.1	480515.1
EAST COORDINATE:	1378532.07	1378532.07	1378532.07	1378532.07	1378532.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	-	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
CYANIDE	0.12 MG/KG		U												
RADIONUCLIDES															
URANIUM-238							1.13 PCI/G	.22	-				1.54 PCI/G	.27	-
URANIUM, TOTAL							10.80 MG/KG	2.8	J				8.42 MG/KG	2.12	J
URANIUM-234							1.09 PCI/G	.21	-				1.26 PCI/G	.23	-
THORIUM-230							1.47 PCI/G	.34	J				1.58 PCI/G	.49	-
RADIUM-226							1.27 PCI/G	.14	J				0.91 PCI/G	.1	J
LEAD-210							1.16 PCI/G	.43	J				0.89 PCI/G	.32	J
POLONIUM-210							1.20 PCI/G	.59	J				1.43 PCI/G	.43	J
URANIUM-235/236							0.60 PCI/G		U				0.60 PCI/G		U
THORIUM-232							1.16 PCI/G	.29	J				0.90 PCI/G	.36	-
THORIUM, TOTAL							10.50 MG/KG	2.6	J				8.14 MG/KG	3.21	-
RADIUM-228							1.24 PCI/G	.23	J				0.79 PCI/G	.16	J
THORIUM-228							1.76 PCI/G	.38	J				1.22 PCI/G	.42	-
ACTINIUM-227							0.60 PCI/G		UJ				0.60 PCI/G		UJ
PROTACTINIUM-231							1.90 PCI/G		UJ				1.40 PCI/G		UJ
RADIUM-224							1.21 PCI/G	.16	J				0.83 PCI/G	.12	J
VOLATILES															
1,1,1-TRICHLOROETHANE										6.00 UG/KG		U			
1,1,2,2-TETRACHLOROETHANE										6.00 UG/KG		U			
1,1,2-TRICHLOROETHANE										6.00 UG/KG		U			
1,1-DICHLOROETHANE										6.00 UG/KG		U			
1,1-DICHLOROETHENE										6.00 UG/KG		U			
1,2-DICHLOROETHANE										6.00 UG/KG		U			
1,2-DICHLOROETHENE (TOTAL)										6.00 UG/KG		U			
1,2-DICHLOROPROPANE										6.00 UG/KG		U			

000220

5 of 44

SAMPLE NUMBER:	099662			099663			099658			099669			099670		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
2-BUTANONE										12.00 UG/KG		U			
2-HEXANONE										12.00 UG/KG		U			
4-METHYL-2-PENTANONE										12.00 UG/KG		U			
ACETONE										19.00 UG/KG		-			
BENZENE										6.00 UG/KG		U			
BROMODICHLOROMETHANE										6.00 UG/KG		U			
BROMOFORM										6.00 UG/KG		U			
BROMOMETHANE										12.00 UG/KG		U			
CARBON DISULFIDE										6.00 UG/KG		U			
CARBON TETRACHLORIDE										6.00 UG/KG		U			
CHLOROBENZENE										6.00 UG/KG		U			
CHLOROETHANE										12.00 UG/KG		U			
CHLOROFORM										6.00 UG/KG		U			
CHLOROMETHANE										12.00 UG/KG		U			
CIS-1,3-DICHLOROPROPENE										6.00 UG/KG		U			
DIBROMOCHLOROMETHANE										6.00 UG/KG		U			
ETHYLBENZENE										6.00 UG/KG		U			
METHYLENE CHLORIDE										6.00 UG/KG		U			
STYRENE										6.00 UG/KG		U			
TETRACHLOROETHENE										4.00 UG/KG		J			
TOLUENE										14.00 UG/KG		-			
TRANS-1,3-DICHLOROPROPENE										6.00 UG/KG		U			
TRICHLOROETHENE										6.00 UG/KG		U			
VINYL ACETATE										12.00 UG/KG		U			
VINYL CHLORIDE										12.00 UG/KG		U			
XYLENES, TOTAL										6.00 UG/KG		U			

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099676	099677	099678	099675	099684
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1623	1623	1623	1623	1790
DEPTH:	24-24.5	24-24.5	24-24.5	30-30.5	5-5.50
DATE COLLECTED:	05-JUN-91	05-JUN-91	05-JUN-91	05-JUN-91	17-JUN-91
NORTH COORDINATE:	480515.1	480515.1	480515.1	480515.1	480513.75
EAST COORDINATE:	1378532.07	1378532.07	1378532.07	1378532.07	1378532.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM				9860.00 MG/KG		-									
ANTIMONY				18.00 MG/KG		R									
ARSENIC				3.60 MG/KG		-									
BARIUM				65.50 MG/KG		-									
BERYLLIUM				0.82 MG/KG		-									
CADMIUM				4.40 MG/KG		-									
CALCIUM				64800.00 MG/KG		-									
CHROMIUM				17.10 MG/KG		-									
COBALT				10.50 MG/KG		-									
COPPER				22.20 MG/KG		-									
CYANIDE							0.12 MG/KG		U						
IRON				20900.00 MG/KG		-									
LEAD				8.90 MG/KG		R									
MAGNESIUM				20700.00 MG/KG		-									
MANGANESE				627.00 MG/KG		-									
MERCURY	0.12 MG/KG		U												
MOLYBDENUM				3.30 MG/KG		-									
NICKEL				26.50 MG/KG		-									
POTASSIUM				1180.00 MG/KG		J									
SELENIUM				0.48 MG/KG		UJ									
SILVER				6.20 MG/KG		-									
SODIUM				113.00 MG/KG		J									
THALLIUM				0.48 MG/KG		UJ									
VANADIUM				26.40 MG/KG		-									
ZINC				49.30 MG/KG		-									
RADIONUCLIDES															
URANIUM-238										2.68 PCI/G	.42	-			
URANIUM, TOTAL										9.95 MG/KG	2.64	J			

000222

5704

SAMPLE NUMBER:	099676			099677			099678			099675			099684		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-234										2.23 PCI/G	.37	-			
THORIUM-230										1.46 PCI/G	.37	-			
RADIUM-226										1.11 PCI/G	.13	J			
LEAD-210										1.31 PCI/G	.41	J			
POLONIUM-210										1.58 PCI/G	.41	J			
URANIUM-235/236										0.60 PCI/G		U			
THORIUM-232										0.82 PCI/G	.26	-			
THORIUM, TOTAL										7.43 MG/KG	2.33	-			
RADIUM-228										0.92 PCI/G	.19	J			
THORIUM-228										1.34 PCI/G	.35	-			
ACTINIUM-227										0.60 PCI/G		UJ			
PROTACTINIUM-231										1.60 PCI/G		UJ			
RADIUM-224										1.17 PCI/G	.16	J			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	410.00 UG/KG		U												
1,2-DICHLOROBENZENE	410.00 UG/KG		U												
1,3-DICHLOROBENZENE	410.00 UG/KG		U												
1,4-DICHLOROBENZENE	410.00 UG/KG		U												
2,4,5-TRICHLOROPHENOL	2000.00 UG/KG		U												
2,4,6-TRICHLOROPHENOL	410.00 UG/KG		U												
2,4-DICHLOROPHENOL	410.00 UG/KG		U												
2,4-DIMETHYLPHENOL	410.00 UG/KG		U												
2,4-DINITROPHENOL	2000.00 UG/KG		U												
2,4-DINITROTOLUENE	410.00 UG/KG		U												
2,6-DINITROTOLUENE	410.00 UG/KG		U												
2-CHLORONAPHTHALENE	410.00 UG/KG		U												
2-CHLOROPHENOL	410.00 UG/KG		U												
2-METHYLNAPHTHALENE	410.00 UG/KG		U												
2-METHYLPHENOL	410.00 UG/KG		U												
2-NITROANILINE	2000.00 UG/KG		U												
2-NITROPHENOL	410.00 UG/KG		U												
3,3'-DICHLOROBENZIDINE	820.00 UG/KG		U												
3-NITROANILINE	2000.00 UG/KG		U												
4,6-DINITRO-2-METHYLPHENOL	2000.00 UG/KG		U												
4-BROMOPHENYL PHENYL ETHER	410.00 UG/KG		U												
4-CHLORO-3-METHYLPHENOL	410.00 UG/KG		U												
4-CHLOROPHENYLPHENYL ETHER	410.00 UG/KG		U												
4-METHYLPHENOL	410.00 UG/KG		U												
4-NITROANILINE	2000.00 UG/KG		U												
4-NITROPHENOL	2000.00 UG/KG		U												
ACENAPHTHENE	410.00 UG/KG		U												
ACENAPHTHYLENE	410.00 UG/KG		U												
ANTHRACENE	410.00 UG/KG		U												

SAMPLE NUMBER:	099676			099677			099678			099675			099684		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(A)ANTHRACENE	410.00 UG/KG		U												
BENZO(A)PYRENE	410.00 UG/KG		U												
BENZO(B)FLUORANTHENE	410.00 UG/KG		U												
BENZO(G,H,I)PERYLENE	410.00 UG/KG		U												
BENZO(K)FLUORANTHENE	410.00 UG/KG		U												
BENZOIC ACID	2000.00 UG/KG		U												
BENZYL ALCOHOL	410.00 UG/KG		U												
BIS(2-CHLOROETHOXY)METHANE	410.00 UG/KG		U												
BIS(2-CHLOROETHYL)ETHER	410.00 UG/KG		U												
BIS(2-CHLOROISOPROPYL) ETHER	410.00 UG/KG		U												
BIS(2-ETHYLHEXYL)PHTHALATE	1000.00 UG/KG		-												
BUTYL BENZYL PHTHALATE	410.00 UG/KG		U												
CHRYSENE	410.00 UG/KG		U												
DI-N-BUTYL PHTHALATE	410.00 UG/KG		U												
DI-N-OCTYL PHTHALATE	410.00 UG/KG		U												
DIBENZO(A,H)ANTHRACENE	410.00 UG/KG		U												
DIBENZOFURAN	410.00 UG/KG		U												
DIETHYL PHTHALATE	410.00 UG/KG		U												
DIMETHYL PHTHALATE	410.00 UG/KG		U												
FLUORANTHENE	410.00 UG/KG		U												
FLUORENE	410.00 UG/KG		U												
HEXACHLOROBENZENE	410.00 UG/KG		U												
HEXACHLOROBUTADIENE	410.00 UG/KG		U												
HEXACHLOROCYCLOPENTADIENE	410.00 UG/KG		U												
HEXACHLOROETHANE	410.00 UG/KG		U												
INDENO(1,2,3-CD)PYRENE	410.00 UG/KG		U												
ISOPHORONE	410.00 UG/KG		U												
N-NITROSO-DI-N-PROPYLAMINE	410.00 UG/KG		U												
N-NITROSODIPHENYLAMINE	410.00 UG/KG		U												
NAPHTHALENE	410.00 UG/KG		U												
NITROBENZENE	410.00 UG/KG		U												
P-CHLOROANILINE	410.00 UG/KG		U												
PENTACHLOROPHENOL	2000.00 UG/KG		U												
PHENANTHRENE	410.00 UG/KG		U												
PHENOL	410.00 UG/KG		U												
PYRENE	410.00 UG/KG		U												
TRIBUTYL PHOSPHATE	410.00 UG/KG		UJ												
VOLATILES															
1,1,1-TRICHLOROETHANE													6.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE													6.00 UG/KG		U
1,1,2-TRICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHANE													6.00 UG/KG		U
1,1-DICHLOROETHENE													6.00 UG/KG		U

000224

5604

SAMPLE NUMBER:	099676			099677			099678			099675			099684		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHANE													6.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)													6.00 UG/KG		U
1,2-DICHLOROPROPANE													6.00 UG/KG		U
2-BUTANONE													11.00 UG/KG		R
2-HEXANONE													11.00 UG/KG		U
4-METHYL-2-PENTANONE													11.00 UG/KG		U
ACETONE													50.00 UG/KG		UJ
BENZENE													6.00 UG/KG		U
BROMODICHLOROMETHANE													6.00 UG/KG		U
BROMOFORM													6.00 UG/KG		U
BROMOMETHANE													11.00 UG/KG		UJ
CARBON DISULFIDE													6.00 UG/KG		UJ
CARBON TETRACHLORIDE													6.00 UG/KG		U
CHLOROBENZENE													6.00 UG/KG		U
CHLOROETHANE													11.00 UG/KG		U
CHLOROFORM													6.00 UG/KG		U
CHLOROMETHANE													11.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE													6.00 UG/KG		U
DIBROMOCHLOROMETHANE													6.00 UG/KG		U
ETHYLBENZENE													6.00 UG/KG		U
METHYLENE CHLORIDE													6.00 UG/KG		U
STYRENE													6.00 UG/KG		U
TETRACHLOROETHENE													6.00 UG/KG		U
TOLUENE													21.00 UG/KG		-
TRANS-1,3-DICHLOROPROPENE													6.00 UG/KG		U
TRICHLOROETHENE													6.00 UG/KG		U
VINYL ACETATE													11.00 UG/KG		U
VINYL CHLORIDE													11.00 UG/KG		U
XYLENES, TOTAL													6.00 UG/KG		U

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099685	099686	099687	099688	099703
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.03
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1790	1790	1790	1790	2S2-SE-C
DEPTH:	5-5.50	5-5.50	5-5.50	5-5.50	5-5.50
DATE COLLECTED:	17-JUN-91	17-JUN-91	17-JUN-91	17-JUN-91	19-JUL-91
NORTH COORDINATE:	480513.75	480513.75	480513.75	480513.75	480503.38
EAST COORDINATE:	1378532.49	1378532.49	1378532.49	1378532.49	1378505.45
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS															
1,4-DIOXANE													77.70 UG/KG		J
INORGANICS															
ALUMINUM				9040.00 MG/KG		-									
ANTIMONY				20.60 MG/KG		J									
ARSENIC				5.00 MG/KG		-									
BARIUM				47.10 MG/KG		-									
BERYLLIUM				0.81 MG/KG		-									
CADMIUM				3.20 MG/KG		-									
CALCIUM				95600.00 MG/KG		-									
CHROMIUM				28.40 MG/KG		-									
COBALT				11.00 MG/KG		-									
COPPER				20.70 MG/KG		-									
CYANIDE							0.11 MG/KG		UR						
IRON				18600.00 MG/KG		-									
LEAD				9.00 MG/KG		J									
MAGNESIUM				23900.00 MG/KG		-									
MANGANESE				411.00 MG/KG		-									
MERCURY										0.10 MG/KG		UJ			
MOLYBDENUM				13.30 MG/KG		-									
NICKEL				24.20 MG/KG		-									
POTASSIUM				1230.00 MG/KG		-									
SELENIUM				0.45 MG/KG		UJ									
SILVER				14.40 MG/KG		-									
SODIUM				197.00 MG/KG		-									
THALLIUM				0.45 MG/KG		UJ									
VANADIUM				27.50 MG/KG		-									
ZINC				44.20 MG/KG		-									

No sort code listed.

1,2,3-TRICHLOROPROPANE
06/14/94

																5.00 UG/KG	UJ
SAMPLE NUMBER:	099685			099686			099687			099688			099703		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
No sort code listed.															
1,2-DIBROMO-3-CHLOROPROPANE													10.00 UG/KG		UJ
1,2-DIBROMOETHANE													5.00 UG/KG		UJ
2-CHLORO-1,3-BUTADIENE													5.00 UG/KG		UJ
3-CHLOROPROPENE													5.00 UG/KG		U
ACETONITRILE													1000.00 UG/KG		UJ
ACROLEIN													10.00 UG/KG		U
ACROLEIN													10.00 UG/KG		U
ACRYLONITRILE													10.00 UG/KG		U
DIBROMOMETHANE													10.00 UG/KG		U
DICHLORODIFLUOROMETHANE													200.00 UG/KG		R
ETHYL CYANIDE													100.00 UG/KG		U
ETHYL METHACRYLATE													10.00 UG/KG		U
IODOMETHANE													5.00 UG/KG		U
METHACRYLONITRILE													10.00 UG/KG		U
METHYL METHACRYLATE													10.00 UG/KG		U
TRANS-1,4-DICHLORO-2-BUTENE													100.00 UG/KG		R
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	380.00 UG/KG		U												
1,2-DICHLOROBENZENE	380.00 UG/KG		U												
1,3-DICHLOROBENZENE	380.00 UG/KG		U												
1,4-DICHLOROBENZENE	380.00 UG/KG		U												
2,4,5-TRICHLOROPHENOL	1900.00 UG/KG		U												
2,4,6-TRICHLOROPHENOL	380.00 UG/KG		U												
2,4-DICHLOROPHENOL	380.00 UG/KG		U												
2,4-DIMETHYLPHENOL	380.00 UG/KG		U												
2,4-DINITROPHENOL	1900.00 UG/KG		U												
2,4-DINITROTOLUENE	380.00 UG/KG		U												
2,6-DINITROTOLUENE	380.00 UG/KG		U												
2-CHLORONAPHTHALENE	380.00 UG/KG		U												
2-CHLOROPHENOL	380.00 UG/KG		U												
2-METHYLNAPHTHALENE	380.00 UG/KG		U												
2-METHYLPHENOL	380.00 UG/KG		U												
2-NITROANILINE	1900.00 UG/KG		U												
2-NITROPHENOL	380.00 UG/KG		U												
3,3'-DICHLOROBENZIDINE	760.00 UG/KG		U												
3-NITROANILINE	1900.00 UG/KG		UJ												
4,6-DINITRO-2-METHYLPHENOL	1900.00 UG/KG		U												
4-BROMOPHENYL PHENYL ETHER	380.00 UG/KG		U												
4-CHLORO-3-METHYLPHENOL	380.00 UG/KG		U												

SAMPLE NUMBER:	099685			099686			099687			099688			099703		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4-CHLOROPHENYLPHENYL ETHER	380.00 UG/KG		U												
4-METHYLPHENOL	380.00 UG/KG		U												
4-NITROANILINE	1900.00 UG/KG		U												
4-NITROPHENOL	1900.00 UG/KG		U												
ACENAPHTHENE	380.00 UG/KG		U												
ACENAPHTHYLENE	380.00 UG/KG		U												
ANTHRACENE	380.00 UG/KG		U												
BENZO(A)ANTHRACENE	380.00 UG/KG		U												
BENZO(A)PYRENE	380.00 UG/KG		U												
BENZO(B)FLUORANTHENE	380.00 UG/KG		U												
BENZO(G,H,I)PERYLENE	380.00 UG/KG		U												
BENZO(K)FLUORANTHENE	380.00 UG/KG		U												
BENZOIC ACID	1900.00 UG/KG		U												
BENZYL ALCOHOL	380.00 UG/KG		U												
BIS(2-CHLOROETHOXY)METHANE	380.00 UG/KG		U												
BIS(2-CHLOROETHYL)ETHER	380.00 UG/KG		U												
BIS(2-CHLOROISOPROPYL) ETHE	380.00 UG/KG		U												
BIS(2-ETHYLHEXYL)PHTHALATE	380.00 UG/KG		UJ												
BUTYL BENZYL PHTHALATE	380.00 UG/KG		UJ												
CHRYSENE	380.00 UG/KG		U												
DI-N-BUTYL PHTHALATE	380.00 UG/KG		U												
DI-N-OCTYL PHTHALATE	380.00 UG/KG		U												
DIBENZO(A,H)ANTHRACENE	380.00 UG/KG		U												
DIBENZOFURAN	380.00 UG/KG		U												
DIETHYL PHTHALATE	380.00 UG/KG		U												
DIMETHYL PHTHALATE	380.00 UG/KG		U												
FLUORANTHENE	380.00 UG/KG		U												
FLUORENE	380.00 UG/KG		U												
HEXACHLOROBENZENE	380.00 UG/KG		U												
HEXACHLOROBUTADIENE	380.00 UG/KG		U												
HEXACHLOROCYCLOPENTADIENE	380.00 UG/KG		U												
HEXACHLOROETHANE	380.00 UG/KG		U												
INDENO(1,2,3-CD)PYRENE	380.00 UG/KG		U												
ISOPHORONE	380.00 UG/KG		U												
N-NITROSO-DI-N-PROPYLAMINE	380.00 UG/KG		U												
N-NITROSODIPHENYLAMINE	380.00 UG/KG		U												
NAPHTHALENE	380.00 UG/KG		U												
NITROBENZENE	380.00 UG/KG		U												
P-CHLOROANILINE	380.00 UG/KG		U												
PENTACHLOROPHENOL	1900.00 UG/KG		U												
PHENANTHRENE	380.00 UG/KG		U												
PHENOL	380.00 UG/KG		U												
PYRENE	380.00 UG/KG		U												
PYRIDINE													45.20 UG/KG		R

000228

5704

VOLATILES

1,1,1,2-TETRACHLOROETHANE 5.00 UG/KG R
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	099685			099686			099687			099688			099703		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1,1-TRICHLOROETHANE													5.00 UG/KG		U
1,1,2,2-TETRACHLOROETHANE													5.00 UG/KG		U
1,1,2-TRICHLOROETHANE													5.00 UG/KG		U
1,1-DICHLOROETHANE													5.00 UG/KG		U
1,1-DICHLOROETHENE													5.00 UG/KG		U
1,2-DICHLOROETHANE													5.00 UG/KG		U
1,2-DICHLOROETHENE (TOTAL)													5.00 UG/KG		R
1,2-DICHLOROPROPANE													5.00 UG/KG		U
2-BUTANONE													10.00 UG/KG		U
2-HEXANONE													10.00 UG/KG		U
4-METHYL-2-PENTANONE													10.00 UG/KG		U
ACETONE													17.00 UG/KG		J
BENZENE													5.00 UG/KG		U
BROMODICHLOROMETHANE													5.00 UG/KG		U
BROMOFORM													5.00 UG/KG		U
BROMOMETHANE													10.00 UG/KG		U
CARBON DISULFIDE													5.00 UG/KG		U
CARBON TETRACHLORIDE													5.00 UG/KG		U
CHLOROBENZENE													5.00 UG/KG		U
CHLOROETHANE													10.00 UG/KG		U
CHLOROFORM													5.00 UG/KG		U
CHLOROMETHANE													10.00 UG/KG		U
CIS-1,3-DICHLOROPROPENE													5.00 UG/KG		U
DIBROMOCHLOROMETHANE													5.00 UG/KG		U
ETHYLBENZENE													5.00 UG/KG		U
ISOBUTYL ALCOHOL													20.00 UG/KG		R
METHYLENE CHLORIDE													5.00 UG/KG		U
STYRENE													5.00 UG/KG		U
TETRACHLOROETHENE													5.00 UG/KG		U
TOLUENE													3.00 UG/KG		J
TRANS-1,3-DICHLOROPROPENE													5.00 UG/KG		R
TRICHLOROETHENE													5.00 UG/KG		U
TRICHLOROFLUOROMETHANE													5.00 UG/KG		UJ
VINYL ACETATE													10.00 UG/KG		U
VINYL CHLORIDE													10.00 UG/KG		U
XYLENES, TOTAL													5.00 UG/KG		R

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	008272	008279	008295	SS-23-053	SS-46-320
TASK:	3.2	3.2	3.2	CIS	CIS
LAB:	IT	IT	IT	WEMCO	WEMCO
WELL OR BORING NUMBER:	3034	3034	3034	CIS_SYSGEN_263	CIS_SYSGEN_322
DEPTH:	10.5-12	21-22.5	95-96.5	0-.5	0-.5
DATE COLLECTED:	20-MAR-88	20-MAR-88	22-MAR-88		
NORTH COORDINATE:	480240.23	480240.23	480240.23	480448.53	480682.09
EAST COORDINATE:	1378431.39	1378431.39	1378431.39	1378635.42	1378471.75
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	0.60 PCI/G	.2	-	0.90 PCI/G	.3	-	0.60 PCI/G		U	4.50 PCI/G	2.8	NV	3.20 PCI/G	1.9	NV
URANIUM, TOTAL	2.07 MG/KG	.2	-	2.96 MG/KG	.3	-	2.07 MG/KG		U	13.41 MG/KG	2.8	NV	9.54 MG/KG	1.9	NV
URANIUM-234	0.60 PCI/G	.2	-	0.80 PCI/G	.3	-	0.60 PCI/G		U						
THORIUM-230	0.90 PCI/G	.3	-	3.80 PCI/G	.9	-	0.70 PCI/G	.2	-						
RADIUM-226	0.30 PCI/G		UJ	0.70 PCI/G	.1	J	0.60 PCI/G	.1	J	0.60 PCI/G	.4	NV	1.30 PCI/G	.5	NV
URANIUM-235/236	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U						
THORIUM-232	0.60 PCI/G	.3	-	0.70 PCI/G	.3	-	0.60 PCI/G		U	0.90 PCI/G	.4	NV	4.30 PCI/G		UNV
THORIUM, TOTAL	5.47 PCI/G	.3	NV	6.38 PCI/G	.3	NV	5.47 PCI/G		U	8.21 PCI/G	.4	NV	39.22 PCI/G		NV
RADIUM-228	0.50 PCI/G		UJ	0.60 PCI/G	.1	J	0.50 PCI/G		UJ						
THORIUM-228	0.90 PCI/G	.3	-	0.80 PCI/G	.3	-	0.60 PCI/G		U						
NEPTUNIUM-237	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U						
PLUTONIUM-239/240	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U						
PLUTONIUM-238	0.60 PCI/G		U	0.60 PCI/G		U	0.60 PCI/G		U						
STRONTIUM-90	0.50 PCI/G		U	0.50 PCI/G		U	0.50 PCI/G		U						
TECHNETIUM-99	1.00 PCI/G		UNV	2.10 PCI/G	.7	NV	1.00 PCI/G		UNV						
RUTHENIUM-106	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UJ	1.00 PCI/G		UNV	5.80 PCI/G		UNV
CESIUM-137	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.20 PCI/G		UJ	0.70 PCI/G		UNV	0.80 PCI/G		UNV

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	SS-46-324			SL-46-571			SL-46-572			SS-46-322			SL-46-327		
TASK:	CIS			CIS			CIS			CIS			CIS		
LAB:	WEMCO			WEMCO			WEMCO			WEMCO			WEMCO		
WELL OR BORING NUMBER:	CIS_SYSGEN_323			CIS_SYSGEN_323			CIS_SYSGEN_323			CIS_SYSGEN_326			CIS_SYSGEN_337		
DEPTH:	0-.5			.5-1			.5-1			0-.5			.16-.5		
DATE COLLECTED:															
NORTH COORDINATE:	480682.78			480682.78			480682.78			480708.45			480727.97		
EAST COORDINATE:	1378446.76			1378446.76			1378446.76			1378422.45			1378623.06		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	7.20 PCI/G		UNV	23.00 PCI/G		UNV	11.20 PCI/G		UNV	6.10 PCI/G	3.6	NV	3.00 PCI/G	2.2	NV
URANIUM, TOTAL	21.46 MG/KG		NV	68.54 MG/KG		NV	33.38 MG/KG		NV	18.18 MG/KG	3.6	NV	8.94 MG/KG	2.2	NV
RADIUM-226	35.80 PCI/G	1.6	NV	11.60 PCI/G	.9	NV	2.30 PCI/G	.4	NV	2.00 PCI/G	.6	NV	1.00 PCI/G	.3	NV
THORIUM-232	4.00 PCI/G		UNV	2.20 PCI/G		UNV	2.30 PCI/G		UNV	4.40 PCI/G		UNV	0.40 PCI/G	.2	NV
THORIUM, TOTAL	36.48 PCI/G		NV	20.06 PCI/G		NV	20.98 PCI/G		NV	40.13 PCI/G		NV	3.65 PCI/G	.2	NV
RUTHENIUM-106	9.00 PCI/G		UNV	8.20 PCI/G		UNV	2.40 PCI/G		UNV	3.40 PCI/G		UNV	4.90 PCI/G		UNV
CESIUM-137	2.40 PCI/G		UNV	0.50 PCI/G		UNV	0.60 PCI/G		UNV	1.00 PCI/G		UNV	0.20 PCI/G		UNV

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	SS-46-207	SL-46-326	SS-46-206	SS-46-318	SS-46-325
TASK:	CIS	CIS	CIS	CIS	CIS
LAB:	WEMCO	WEMCO	TMA	WEMCO	WEMCO
WELL OR BORING NUMBER:	CIS_SYSGEN_337	CIS_SYSGEN_339	CIS_SYSGEN_339	CIS_SYSGEN_342	CIS_SYSGEN_343
DEPTH:	0-.5	.16-.5	0-.5	0-.5	0-.5
DATE COLLECTED:					
NORTH COORDINATE:	480727.97	480733.44	480733.44	480752.96	480758.43
EAST COORDINATE:	1378623.06	1378423.13	1378423.13	1378623.74	1378423.82
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	6.20 PCI/G	3.4	NV	13.70 PCI/G		UNV	9.30 PCI/G	.5	-	14.90 PCI/G		UNV	5.50 PCI/G	2	NV
URANIUM, TOTAL	18.48 MG/KG	3.4	NV	40.83 MG/KG		NV	27.90 MG/KG	.5	-	44.40 MG/KG		NV	16.39 MG/KG	2	NV
URANIUM-234							6.10 PCI/G	.4	-						
THORIUM-230							295.00 PCI/G	9	-						
RADIUM-226	5.30 PCI/G	.6	NV	3.20 PCI/G	.6	NV	4.40 PCI/G	.6	NV	10.30 PCI/G	.9	NV	1.70 PCI/G	.5	NV
URANIUM-235/236							0.40 PCI/G	.1	J						
THORIUM-232	0.80 PCI/G		UNV	4.30 PCI/G		UNV	1.00 PCI/G	.6	-	0.90 PCI/G		UNV	2.70 PCI/G		UNV
THORIUM, TOTAL	7.30 PCI/G		NV	39.22 PCI/G		NV	9.12 PCI/G	.6	-	8.21 PCI/G		NV	24.62 PCI/G		NV
THORIUM-228							0.80 PCI/G	.5	-						
NEPTUNIUM-237							0.30 PCI/G		U						
PLUTONIUM-239/240							0.20 PCI/G		UJ						
PLUTONIUM-238							0.20 PCI/G		UJ						
STRONTIUM-90							0.50 PCI/G		UJ						
TECHNETIUM-99							4.00 PCI/G		UJ						
RUTHENIUM-106	6.00 PCI/G		UNV	4.90 PCI/G		UNV	2.00 PCI/G		UJ	11.00 PCI/G		UNV	3.20 PCI/G		UNV
CESIUM-137	0.90 PCI/G		UNV	0.90 PCI/G		UNV	2.60 PCI/G	.5	-	1.20 PCI/G	.3	NV	0.40 PCI/G	.2	NV

000232

5704

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	SS-46-569	SS-46-567	SS-46-323	SS-46-321	SS-46-204
TASK:	CIS	CIS	CIS	CIS	CIS
LAB:	WEMCO	WEMCO	WEMCO	WEMCO	WEMCO
WELL OR BORING NUMBER:	CIS_SYSGEN_347	CIS_SYSGEN_349	CIS_SYSGEN_351	CIS_SYSGEN_352	CIS_SYSGEN_360
DEPTH:	0-.5	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:					
NORTH COORDINATE:	480777.95	480779.32	480782.06	480782.74	480827.93
EAST COORDINATE:	1378624.43	1378574.44	1378474.48	1378449.49	1378625.79
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	18.60 PCI/G	4.9	NV	37.40 PCI/G	10.2	NV	8.50 PCI/G	4.3	NV	14.90 PCI/G		UNV	5.60 PCI/G	3.4	NV
URANIUM, TOTAL	55.43 MG/KG	4.9	NV	111.45 MG/KG	10.2	NV	25.33 MG/KG	4.3	NV	44.40 MG/KG		NV	16.69 MG/KG	3.4	NV
RADIUM-226	3.60 PCI/G	.8	NV	22.50 PCI/G	1.9	NV	4.40 PCI/G	.6	NV	4.70 PCI/G	.8	NV	4.50 PCI/G	.6	NV
THORIUM-232	0.70 PCI/G		UNV	3.20 PCI/G		UNV	4.60 PCI/G		UNV	4.20 PCI/G		UNV	0.30 PCI/G		UNV
THORIUM, TOTAL	6.38 PCI/G		NV	29.18 PCI/G		NV	41.95 PCI/G		NV	38.30 PCI/G		NV	2.74 PCI/G		NV
RUTHENIUM-106	1.40 PCI/G		UNV	13.00 PCI/G		UNV	1.00 PCI/G		UNV	1.00 PCI/G		UNV	3.50 PCI/G		UNV
CESIUM-137	1.10 PCI/G	.5	NV	1.90 PCI/G		UNV	1.00 PCI/G	.4	NV	0.50 PCI/G	.3	NV	0.40 PCI/G		UNV

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	SS-46-203	SS-46-202	SS-46-200	SS-46-199	SS-46-197
TASK:	CIS	CIS	CIS	CIS	CIS
LAB:	WEMCO	WEMCO	WEMCO	WEMCO	WEMCO
WELL OR BORING NUMBER:	CIS_SYSGEN_361	CIS_SYSGEN_363	CIS_SYSGEN_373	CIS_SYSGEN_375	CIS_SYSGEN_385
DEPTH:	0-.5	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:					
NORTH COORDINATE:	480830.67	480833.41	480927.9	480933.37	481027.86
EAST COORDINATE:	1378525.83	1378425.87	1378628.53	1378428.61	1378631.27
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238	12.30 PCI/G	2.9	NV	2.60 PCI/G	1.7	NV	9.00 PCI/G		UNV	3.30 PCI/G		UNV	4.10 PCI/G	2	NV
URANIUM, TOTAL	36.65 MG/KG	2.9	NV	7.75 MG/KG	1.7	NV	26.82 MG/KG		NV	9.83 MG/KG		NV	12.22 MG/KG	2	NV
RADIUM-226	1.10 PCI/G	.5	NV	0.90 PCI/G	.4	NV	0.50 PCI/G	.2	NV	0.30 PCI/G		UNV	0.70 PCI/G	.3	NV
THORIUM-232	0.50 PCI/G		UNV	0.70 PCI/G	.3	NV	1.80 PCI/G		UNV	2.80 PCI/G		UNV	1.20 PCI/G		UNV
THORIUM, TOTAL	4.56 PCI/G		NV	6.38 PCI/G	.3	NV	16.42 PCI/G		NV	25.54 PCI/G		NV	10.94 PCI/G		NV
RUTHENIUM-106	3.80 PCI/G		UNV	1.00 PCI/G		UNV	3.60 PCI/G		UNV	1.00 PCI/G		UNV	4.30 PCI/G		UNV
CESIUM-137	0.80 PCI/G	.3	NV	0.20 PCI/G		UNV	0.20 PCI/G		UNV	0.40 PCI/G		UNV	0.20 PCI/G		UNV

000234

5704

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	SS-46-196	SS2219	061100	061105	061310
TASK:	CIS	LIT STUDY	04.01	04.01	04.01
LAB:	WEMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	CIS_SYSGEN_386	LIT8923	WPA15	WPA15	WPA23
DEPTH:	0-.5	0-.167	0-.5	1.5-2	0-.5
DATE COLLECTED:		23-APR-86	25-APR-91	25-APR-91	27-APR-91
NORTH COORDINATE:	481030.6	480389	481028.5	481028.5	480240.1
EAST COORDINATE:	1378531.3	1378630	1378631.8	1378631.8	1378407
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM							10900.00 MG/KG		-				9520.00 MG/KG		-
ANTIMONY							29.70 MG/KG		J				31.30 MG/KG		R
ARSENIC							28.50 MG/KG		-				5.40 MG/KG		-
BARIUM							113.00 MG/KG		J				80.30 MG/KG		-
BERYLLIUM							0.70 MG/KG		-				0.93 MG/KG		-
CADMIUM							4.90 MG/KG		-				6.10 MG/KG		-
CALCIUM							23300.00 MG/KG		-				100000.00 MG/KG		-
CHROMIUM							22.60 MG/KG		-				18.60 MG/KG		-
COBALT							14.80 MG/KG		-				12.80 MG/KG		-
COPPER							23.50 MG/KG		-				21.70 MG/KG		-
CYANIDE							0.12 MG/KG		U						
IRON							23200.00 MG/KG		J				19600.00 MG/KG		-
LEAD							10.80 MG/KG		-				10.20 MG/KG		R
MAGNESIUM							14400.00 MG/KG		-				26000.00 MG/KG		-
MANGANESE							1130.00 MG/KG		J				529.00 MG/KG		J
MERCURY							0.13 MG/KG		U				0.12 MG/KG		U
MOLYBDENUM							4.70 MG/KG		-				4.40 MG/KG		-
NICKEL							38.90 MG/KG		-				35.00 MG/KG		-
POTASSIUM							1430.00 MG/KG		-				1100.00 MG/KG		-
SELENIUM							0.50 MG/KG		U				0.48 MG/KG		UJ
SILVER							6.60 MG/KG		-				9.70 MG/KG		J
SODIUM							119.00 MG/KG		-				122.00 MG/KG		-
THALLIUM							0.50 MG/KG		U				0.48 MG/KG		UJ
VANADIUM							27.70 MG/KG		-				22.90 MG/KG		-
ZINC							65.20 MG/KG		J				51.00 MG/KG		-
PESTICIDES															
4,4'-DDD							20.00 UG/KG		U				20.00 UG/KG		U
4,4'-DDE							20.00 UG/KG		U				20.00 UG/KG		U

000235

SAMPLE NUMBER:	SS-46-196			SS2219			061100			061105			061310		
LAB:							IT						IT		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT							20.00 UG/KG		U				20.00 UG/KG		U
ALDRIN							10.00 UG/KG		U				10.00 UG/KG		U
ALPHA-BHC							10.00 UG/KG		U				10.00 UG/KG		U
ALPHA-CHLORDANE							100.00 UG/KG		U				100.00 UG/KG		U
AROCLOR-1016							100.00 UG/KG		U				100.00 UG/KG		U
AROCLOR-1221							100.00 UG/KG		U				100.00 UG/KG		U
AROCLOR-1232							100.00 UG/KG		U				100.00 UG/KG		U
AROCLOR-1242							100.00 UG/KG		U				100.00 UG/KG		U
AROCLOR-1248							100.00 UG/KG		U				100.00 UG/KG		U
AROCLOR-1254							200.00 UG/KG		U				200.00 UG/KG		U
AROCLOR-1260							200.00 UG/KG		U				200.00 UG/KG		U
BETA-BHC							10.00 UG/KG		U				10.00 UG/KG		U
DELTA-BHC							10.00 UG/KG		U				10.00 UG/KG		U
DIELDRIN							20.00 UG/KG		U				20.00 UG/KG		U
ENDOSULFAN II							20.00 UG/KG		U				20.00 UG/KG		U
ENDOSULFAN SULFATE							20.00 UG/KG		U				20.00 UG/KG		U
ENDOSULFAN-I							10.00 UG/KG		U				10.00 UG/KG		U
ENDRIN							20.00 UG/KG		U				20.00 UG/KG		U
ENDRIN KETONE							20.00 UG/KG		U				20.00 UG/KG		U
GAMMA-BHC (LINDANE)							10.00 UG/KG		U				10.00 UG/KG		U
GAMMA-CHLORDANE							100.00 UG/KG		U				100.00 UG/KG		U
HEPTACHLOR							10.00 UG/KG		UJ				10.00 UG/KG		U
HEPTACHLOR EPOXIDE							10.00 UG/KG		UJ				10.00 UG/KG		U
METHOXYCHLOR							100.00 UG/KG		U				100.00 UG/KG		U
TOXAPHENE							200.00 UG/KG		U				200.00 UG/KG		U
RADIONUCLIDES															
URANIUM-238	8.70 PCI/G	3.5	NV	4.64 PCI/G		NV									
URANIUM, TOTAL	25.93 MG/KG	3.5	NV	12.66 MG/KG		NV									
URANIUM-234				3.72 PCI/G		NV									
RADIUM-226	1.70 PCI/G	.4	NV												
URANIUM-235/236				0.19 PCI/G		NV									
THORIUM-232	0.30 PCI/G		UNV												
THORIUM, TOTAL	2.74 PCI/G		NV												
RUTHENIUM-106	3.60 PCI/G		UNV												
CESIUM-137	0.30 PCI/G		UNV												
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE										420.00 UG/KG		U			
1,2-DICHLOROBENZENE										420.00 UG/KG		U			
1,3-DICHLOROBENZENE										420.00 UG/KG		U			
1,4-DICHLOROBENZENE										420.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL										2000.00 UG/KG		U			

SAMPLE NUMBER:	SS-46-196			SS2219			061100			061105			061310		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,6-TRICHLOROPHENOL										420.00 UG/KG		U			
2,4-DICHLOROPHENOL										420.00 UG/KG		U			
2,4-DIMETHYLPHENOL										420.00 UG/KG		U			
2,4-DINITROPHENOL										2000.00 UG/KG		U			
2,4-DINITROTOLUENE										420.00 UG/KG		U			
2,6-DINITROTOLUENE										420.00 UG/KG		U			
2-CHLORONAPHTHALENE										420.00 UG/KG		U			
2-CHLOROPHENOL										420.00 UG/KG		U			
2-METHYLNAPHTHALENE										420.00 UG/KG		U			
2-METHYLPHENOL										420.00 UG/KG		U			
2-NITROANILINE										2000.00 UG/KG		U			
2-NITROPHENOL										420.00 UG/KG		U			
3,3'-DICHLOROBENZIDINE										840.00 UG/KG		UJ			
3-NITROANILINE										2000.00 UG/KG		UJ			
4,6-DINITRO-2-METHYLPHENOL										2000.00 UG/KG		U			
4-BROMOPHENYL PHENYL ETHER										420.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL										420.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER										420.00 UG/KG		U			
4-METHYLPHENOL										420.00 UG/KG		U			
4-NITROANILINE										2000.00 UG/KG		U			
4-NITROPHENOL										2000.00 UG/KG		U			
ACENAPHTHENE										420.00 UG/KG		U			
ACENAPHTHYLENE										420.00 UG/KG		U			
ANTHRACENE										420.00 UG/KG		U			
BENZO(A)ANTHRACENE										420.00 UG/KG		U			
BENZO(A)PYRENE										420.00 UG/KG		U			
BENZO(B)FLUORANTHENE										420.00 UG/KG		U			
BENZO(G,H,I)PERYLENE										420.00 UG/KG		U			
BENZO(K)FLUORANTHENE										420.00 UG/KG		U			
BENZOIC ACID										2000.00 UG/KG		R			
BENZYL ALCOHOL										420.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE										420.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER										420.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER										420.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE										100.00 UG/KG		J			
BUTYL BENZYL PHTHALATE										420.00 UG/KG		U			
CHRYSENE										420.00 UG/KG		U			
DI-N-BUTYL PHTHALATE										420.00 UG/KG		U			
DI-N-OCTYL PHTHALATE										420.00 UG/KG		U			
DIBENZO(A,H)ANTHRACENE										420.00 UG/KG		U			
DIBENZOFURAN										420.00 UG/KG		U			
DIETHYL PHTHALATE										420.00 UG/KG		U			
DIMETHYL PHTHALATE										420.00 UG/KG		U			
FLUORANTHENE										420.00 UG/KG		U			
FLUORENE										420.00 UG/KG		UJ			

000234

SAMPLE NUMBER:	SS-46-196			SS2219			061100			061105			061310		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
HEXACHLOROBENZENE										420.00 UG/KG		U			
HEXACHLOROBUTADIENE										420.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE										420.00 UG/KG		U			
HEXACHLOROETHANE										420.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE										420.00 UG/KG		U			
ISOPHORONE										420.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE										420.00 UG/KG		U			
N-NITROSODIPHENYLAMINE										420.00 UG/KG		U			
NAPHTHALENE										420.00 UG/KG		U			
NITROBENZENE										420.00 UG/KG		UJ			
P-CHLOROANILINE										420.00 UG/KG		U			
PENTACHLOROPHENOL										2000.00 UG/KG		U			
PHENANTHRENE										420.00 UG/KG		U			
PHENOL										420.00 UG/KG		U			
PYRENE										420.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE										6.00 UG/KG		U			
1,1,2,2-TETRACHLOROETHANE										6.00 UG/KG		U			
1,1,2-TRICHLOROETHANE										6.00 UG/KG		U			
1,1-DICHLOROETHANE										6.00 UG/KG		U			
1,1-DICHLOROETHENE										6.00 UG/KG		U			
1,2-DICHLOROETHANE										6.00 UG/KG		U			
1,2-DICHLOROETHENE (TOTAL)										6.00 UG/KG		U			
1,2-DICHLOROPROPANE										6.00 UG/KG		U			
2-BUTANONE										13.00 UG/KG		U			
2-HEXANONE										13.00 UG/KG		U			
4-METHYL-2-PENTANONE										13.00 UG/KG		U			
ACETONE										20.00 UG/KG		UJ			
BENZENE										6.00 UG/KG		U			
BROMODICHLOROMETHANE										6.00 UG/KG		U			
BROMOFORM										6.00 UG/KG		U			
BROMOMETHANE										13.00 UG/KG		U			
CARBON DISULFIDE										6.00 UG/KG		U			
CARBON TETRACHLORIDE										6.00 UG/KG		U			
CHLOROBENZENE										6.00 UG/KG		U			
CHLOROETHANE										13.00 UG/KG		U			
CHLOROFORM										6.00 UG/KG		U			
CHLOROMETHANE										13.00 UG/KG		UJ			
CIS-1,3-DICHLOROPROPENE										6.00 UG/KG		U			
DIBROMOCHLOROMETHANE										6.00 UG/KG		U			
ETHYLBENZENE										6.00 UG/KG		U			
METHYLENE CHLORIDE										13.00 UG/KG		U			
STYRENE										6.00 UG/KG		U			

000238

5204

SAMPLE NUMBER:	SS-46-196			SS2219			061100			061105			061310		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TETRACHLOROETHENE										6.00 UG/KG		U			
TOLUENE										1.00 UG/KG		J			
TRANS-1,3-DICHLOROPROPENE										6.00 UG/KG		U			
TRICHLOROETHENE										6.00 UG/KG		U			
VINYL ACETATE										13.00 UG/KG		U			
VINYL CHLORIDE										13.00 UG/KG		U			
XYLENES, TOTAL										6.00 UG/KG		U			

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	061163	061168	061198	061203	061219
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT/MWL	IT	IT/MWL
WELL OR BORING NUMBER:	WPA24	WPA24	WPA29	WPA29	WPA33
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	27-APR-91	27-APR-91	28-APR-91	28-APR-91	26-APR-91
NORTH COORDINATE:	480228.8	480228.8	480428.3	480428.3	480609.3
EAST COORDINATE:	1378609.9	1378609.9	1378630.4	1378630.4	1378600.1
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	10000.00 MG/KG		-				10000.00 MG/KG		-				4010.00 MG/KG		-
ANTIMONY	28.60 MG/KG		R				25.00 MG/KG		R				34.10 MG/KG		R
ARSENIC	2.70 MG/KG		-				7.30 MG/KG		-				9.10 MG/KG		-
BARIUM	67.30 MG/KG		-				78.90 MG/KG		-				55.10 MG/KG		-
BERYLLIUM	1.00 MG/KG		-				0.90 MG/KG		-				2.30 MG/KG		U
CADMIUM	4.70 MG/KG		-				3.10 MG/KG		-				6.90 MG/KG		-
CALCIUM	131000.00 MG/KG		-				49700.00 MG/KG		-				177000.00 MG/KG		-
CHROMIUM	15.80 MG/KG		-				18.50 MG/KG		-				30.30 MG/KG		-
COBALT	12.40 MG/KG		-				11.40 MG/KG		-				11.40 MG/KG		U
COPPER	20.20 MG/KG		-				18.10 MG/KG		-				29.30 MG/KG		-
CYANIDE	0.12 MG/KG		U				0.24 MG/KG		-				0.14 MG/KG		-
IRON	20400.00 MG/KG		-				19500.00 MG/KG		-				9380.00 MG/KG		-
LEAD	6.70 MG/KG		R				18.60 MG/KG		R				81.40 MG/KG		R
MAGNESIUM	15400.00 MG/KG		-				8910.00 MG/KG		-				31800.00 MG/KG		-
MANGANESE	498.00 MG/KG		J				7740.00 MG/KG		J				489.00 MG/KG		J
MERCURY	0.11 MG/KG		U				0.12 MG/KG		U				0.10 MG/KG		U
MOLYBDENUM	3.60 MG/KG		-				3.80 MG/KG		-				11.40 MG/KG		U
NICKEL	30.00 MG/KG		-				21.10 MG/KG		-				30.00 MG/KG		-
POTASSIUM	949.00 MG/KG		-				945.00 MG/KG		-				495.00 MG/KG		-
SELENIUM	0.48 MG/KG		UJ				0.51 MG/KG		UJ				0.46 MG/KG		UJ
SILVER	8.40 MG/KG		J				8.90 MG/KG		J				31.10 MG/KG		-
SODIUM	97.90 MG/KG		-				75.90 MG/KG		-				166.00 MG/KG		-
THALLIUM	0.48 MG/KG		UJ				0.51 MG/KG		UJ				0.51 MG/KG		J
VANADIUM	24.00 MG/KG		-				25.90 MG/KG		-				24.90 MG/KG		-
ZINC	45.40 MG/KG		-				65.40 MG/KG		-				52.40 MG/KG		-
PESTICIDES															
4,4'-DDD	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U
4,4'-DDE	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U

000240

5704

SAMPLE NUMBER:	061163			061168			061198			061203			061219		
LAB:	IT						IT/MWL						IT/MWL		
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U
ALDRIN	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
ALPHA-BHC	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
ALPHA-CHLORDANE	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
AROCLOR-1016	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
AROCLOR-1221	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
AROCLOR-1232	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
AROCLOR-1242	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
AROCLOR-1248	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
AROCLOR-1254	200.00 UG/KG		U				38.00 UG/KG		J				1700.00 UG/KG		J
AROCLOR-1260	200.00 UG/KG		U				210.00 UG/KG		U				180.00 UG/KG		U
BETA-BHC	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
DELTA-BHC	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
DIELDRIN	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U
ENDOSULFAN II	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U
ENDOSULFAN SULFATE	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U
ENDOSULFAN-I	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
ENDRIN	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U
ENDRIN KETONE	20.00 UG/KG		U				21.00 UG/KG		U				18.00 UG/KG		U
GAMMA-BHC (LINDANE)	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
GAMMA-CHLORDANE	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
HEPTACHLOR	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
HEPTACHLOR EPOXIDE	9.80 UG/KG		U				10.00 UG/KG		U				9.10 UG/KG		U
METHOXYCHLOR	98.00 UG/KG		U				100.00 UG/KG		U				91.00 UG/KG		U
TOXAPHENE	200.00 UG/KG		U				210.00 UG/KG		U				180.00 UG/KG		U
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				390.00 UG/KG		U				390.00 UG/KG		U			
1,2-DICHLOROBENZENE				390.00 UG/KG		U				390.00 UG/KG		U			
1,3-DICHLOROBENZENE				390.00 UG/KG		U				390.00 UG/KG		U			
1,4-DICHLOROBENZENE				390.00 UG/KG		U				390.00 UG/KG		U			
2,4,5-TRICHLOROPHENOL				1900.00 UG/KG		U				1900.00 UG/KG		U			
2,4,6-TRICHLOROPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
2,4-DICHLOROPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
2,4-DIMETHYLPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
2,4-DINITROPHENOL				1900.00 UG/KG		UJ				1900.00 UG/KG		UJ			
2,4-DINITROTOLUENE				390.00 UG/KG		U				390.00 UG/KG		U			
2,6-DINITROTOLUENE				390.00 UG/KG		U				390.00 UG/KG		U			
2-CHLORONAPHTHALENE				390.00 UG/KG		U				390.00 UG/KG		U			
2-CHLOROPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
2-METHYLNAPHTHALENE				390.00 UG/KG		U				390.00 UG/KG		U			
2-METHYLPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
2-NITROANILINE				1900.00 UG/KG		U				1900.00 UG/KG		U			
2-NITROPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			

000241

SAMPLE NUMBER:	061163			061168			061198			061203			061219		
LAB:				IT						IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
3,3'-DICHLOROBENZIDINE				770.00 UG/KG		U				780.00 UG/KG		U			
3-NITROANILINE				1900.00 UG/KG		U				1900.00 UG/KG		U			
4,6-DINITRO-2-METHYLPHENOL				1900.00 UG/KG		UJ				1900.00 UG/KG		UJ			
4-BROMOPHENYL PHENYL ETHER				390.00 UG/KG		U				390.00 UG/KG		U			
4-CHLORO-3-METHYLPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
4-CHLOROPHENYLPHENYL ETHER				390.00 UG/KG		U				390.00 UG/KG		U			
4-METHYLPHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
4-NITROANILINE				1900.00 UG/KG		U				1900.00 UG/KG		U			
4-NITROPHENOL				1900.00 UG/KG		U				1900.00 UG/KG		U			
ACENAPHTHENE				390.00 UG/KG		U				390.00 UG/KG		U			
ACENAPHTHYLENE				390.00 UG/KG		U				390.00 UG/KG		U			
ANTHRACENE				390.00 UG/KG		U				390.00 UG/KG		U			
BENZO(A)ANTHRACENE				390.00 UG/KG		U				390.00 UG/KG		U			
BENZO(A)PYRENE				390.00 UG/KG		U				390.00 UG/KG		U			
BENZO(B)FLUORANTHENE				390.00 UG/KG		U				390.00 UG/KG		U			
BENZO(G,H,I)PERYLENE				390.00 UG/KG		U				390.00 UG/KG		U			
BENZO(K)FLUORANTHENE				390.00 UG/KG		U				390.00 UG/KG		U			
BENZOIC ACID				1900.00 UG/KG		U				1900.00 UG/KG		U			
BENZYL ALCOHOL				390.00 UG/KG		U				390.00 UG/KG		U			
BIS(2-CHLOROETHOXY)METHANE				390.00 UG/KG		U				390.00 UG/KG		U			
BIS(2-CHLOROETHYL)ETHER				390.00 UG/KG		U				390.00 UG/KG		U			
BIS(2-CHLOROISOPROPYL) ETHER				390.00 UG/KG		U				390.00 UG/KG		U			
BIS(2-ETHYLHEXYL)PHTHALATE				62.00 UG/KG		J				78.00 UG/KG		J			
BUTYL BENZYL PHTHALATE				390.00 UG/KG		U				390.00 UG/KG		U			
CHRYSENE				390.00 UG/KG		U				390.00 UG/KG		U			
DI-N-BUTYL PHTHALATE				390.00 UG/KG		UJ				390.00 UG/KG		UJ			
DI-N-OCTYL PHTHALATE				390.00 UG/KG		U				390.00 UG/KG		U			
DIBENZO(A,H)ANTHRACENE				390.00 UG/KG		U				390.00 UG/KG		U			
DIBENZOFURAN				390.00 UG/KG		U				390.00 UG/KG		U			
DIETHYL PHTHALATE				390.00 UG/KG		U				390.00 UG/KG		U			
DIMETHYL PHTHALATE				390.00 UG/KG		U				390.00 UG/KG		U			
FLUORANTHENE				390.00 UG/KG		U				390.00 UG/KG		U			
FLUORENE				390.00 UG/KG		U				390.00 UG/KG		U			
HEXACHLOROBENZENE				390.00 UG/KG		U				390.00 UG/KG		U			
HEXACHLOROBUTADIENE				390.00 UG/KG		U				390.00 UG/KG		U			
HEXACHLOROCYCLOPENTADIENE				390.00 UG/KG		U				390.00 UG/KG		U			
HEXACHLOROETHANE				390.00 UG/KG		U				390.00 UG/KG		U			
INDENO(1,2,3-CD)PYRENE				390.00 UG/KG		U				390.00 UG/KG		U			
ISOPHORONE				390.00 UG/KG		U				390.00 UG/KG		U			
N-NITROSO-DI-N-PROPYLAMINE				390.00 UG/KG		U				390.00 UG/KG		U			
N-NITROSODIPHENYLAMINE				390.00 UG/KG		U				390.00 UG/KG		U			
NAPHTHALENE				390.00 UG/KG		U				390.00 UG/KG		U			
NITROBENZENE				390.00 UG/KG		U				390.00 UG/KG		U			
P-CHLOROANILINE				390.00 UG/KG		U				390.00 UG/KG		U			
PENTACHLOROPHENOL				1900.00 UG/KG		U				1900.00 UG/KG		U			

000242

5704

SAMPLE NUMBER:	061163			061168			061198			061203			061219		
LAB:				IT						IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PHENANTHRENE				390.00 UG/KG		U				390.00 UG/KG		U			
PHENOL				390.00 UG/KG		U				390.00 UG/KG		U			
PYRENE				390.00 UG/KG		U				390.00 UG/KG		U			
VOLATILES															
1,1,1-TRICHLOROETHANE				6.00 UG/KG		U				6.00 UG/KG		U			
1,1,2,2-TETRACHLOROETHANE				6.00 UG/KG		U				6.00 UG/KG		U			
1,1,2-TRICHLOROETHANE				6.00 UG/KG		U				6.00 UG/KG		U			
1,1-DICHLOROETHANE				6.00 UG/KG		U				6.00 UG/KG		U			
1,1-DICHLOROETHENE				6.00 UG/KG		U				6.00 UG/KG		U			
1,2-DICHLOROETHANE				6.00 UG/KG		U				6.00 UG/KG		U			
1,2-DICHLOROETHENE (TOTAL)				6.00 UG/KG		U				6.00 UG/KG		U			
1,2-DICHLOROPROPANE				6.00 UG/KG		U				6.00 UG/KG		U			
2-BUTANONE				12.00 UG/KG		R				12.00 UG/KG		U			
2-HEXANONE				12.00 UG/KG		U				12.00 UG/KG		U			
4-METHYL-2-PENTANONE				12.00 UG/KG		U				2.00 UG/KG		J			
ACETONE				3.00 UG/KG		J				69.00 UG/KG		UJ			
BENZENE				6.00 UG/KG		U				6.00 UG/KG		U			
BROMODICHLOROMETHANE				6.00 UG/KG		UJ				6.00 UG/KG		U			
BROMOFORM				6.00 UG/KG		U				6.00 UG/KG		U			
BROMOMETHANE				12.00 UG/KG		U				12.00 UG/KG		U			
CARBON DISULFIDE				6.00 UG/KG		U				6.00 UG/KG		U			
CARBON TETRACHLORIDE				6.00 UG/KG		UJ				6.00 UG/KG		U			
CHLOROBENZENE				6.00 UG/KG		U				6.00 UG/KG		U			
CHLOROETHANE				12.00 UG/KG		U				12.00 UG/KG		U			
CHLOROFORM				6.00 UG/KG		U				6.00 UG/KG		U			
CHLOROMETHANE				12.00 UG/KG		U				12.00 UG/KG		UJ			
CIS-1,3-DICHLOROPROPENE				6.00 UG/KG		U				6.00 UG/KG		U			
DIBROMOCHLOROMETHANE				6.00 UG/KG		U				6.00 UG/KG		U			
ETHYLBENZENE				6.00 UG/KG		U				6.00 UG/KG		U			
METHYLENE CHLORIDE				8.00 UG/KG		UJ				11.00 UG/KG		U			
STYRENE				6.00 UG/KG		U				6.00 UG/KG		U			
TETRACHLOROETHENE				6.00 UG/KG		U				6.00 UG/KG		U			
TOLUENE				6.00 UG/KG		U				6.00 UG/KG		U			
TRANS-1,3-DICHLOROPROPENE				6.00 UG/KG		U				6.00 UG/KG		U			
TRICHLOROETHENE				6.00 UG/KG		U				6.00 UG/KG		U			
VINYL ACETATE				12.00 UG/KG		UJ				12.00 UG/KG		U			
VINYL CHLORIDE				12.00 UG/KG		U				12.00 UG/KG		U			
XYLENES, TOTAL				6.00 UG/KG		U				6.00 UG/KG		U			

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	061254	061258	005884	005644	005645
TASK:	04.01	04.01	3.4.2	3.4.2	3.4.2
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA37	WPA37	ZONE 2-179	ZONE 3-208	ZONE 3-208
DEPTH:	0-.5	1.5-2	0-.5	0-.167	.167-.333
DATE COLLECTED:	23-APR-91	23-APR-91	09-OCT-88	19-JUN-88	19-JUN-88
NORTH COORDINATE:	480828.6	480828.6	480250	480260	480260
EAST COORDINATE:	1378626.3	1378626.3	1378500	1378340	1378340
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ALUMINUM	8770.00 MG/KG		-												
ANTIMONY	20.60 MG/KG		J												
ARSENIC	9.00 MG/KG		J												
BARIUM	75.20 MG/KG		J												
BERYLLIUM	0.70 MG/KG		-												
CADMIUM	3.70 MG/KG		-												
CALCIUM	33100.00 MG/KG		-												
CHROMIUM	16.70 MG/KG		-												
COBALT	10.00 MG/KG		-												
COPPER	18.20 MG/KG		-												
CYANIDE	0.11 MG/KG		U												
IRON	19200.00 MG/KG		-												
LEAD	17.00 MG/KG		-												
MAGNESIUM	10800.00 MG/KG		-												
MANGANESE	522.00 MG/KG		J												
MERCURY	0.11 MG/KG		U												
MOLYBDENUM	3.20 MG/KG		-												
NICKEL	23.20 MG/KG		-												
POTASSIUM	1090.00 MG/KG		-												
SELENIUM	0.54 MG/KG		-												
SILVER	7.10 MG/KG		-												
SODIUM	86.20 MG/KG		U												
THALLIUM	0.46 MG/KG		UJ												
VANADIUM	23.70 MG/KG		-												
ZINC	49.30 MG/KG		-												
PESTICIDES															
4,4'-DDD	19.00 UG/KG		U												
4,4'-DDE	19.00 UG/KG		U												

000244

5204

SAMPLE NUMBER:	061254			061258			005884			005644			005645		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDT	19.00 UG/KG		U												
ALDRIN	9.50 UG/KG		U												
ALPHA-BHC	9.50 UG/KG		U												
ALPHA-CHLORDANE	95.00 UG/KG		U												
AROCLOR-1016	95.00 UG/KG		U												
AROCLOR-1221	95.00 UG/KG		U												
AROCLOR-1232	95.00 UG/KG		U												
AROCLOR-1242	95.00 UG/KG		U												
AROCLOR-1248	95.00 UG/KG		U												
AROCLOR-1254	81.00 UG/KG		J												
AROCLOR-1260	190.00 UG/KG		U												
BETA-BHC	9.50 UG/KG		U												
DELTA-BHC	9.50 UG/KG		U												
DIELDRIN	19.00 UG/KG		U												
ENDOSULFAN II	19.00 UG/KG		U												
ENDOSULFAN SULFATE	19.00 UG/KG		U												
ENDOSULFAN-I	9.50 UG/KG		U												
ENDRIN	19.00 UG/KG		U												
ENDRIN KETONE	19.00 UG/KG		U												
GAMMA-BHC (LINDANE)	9.50 UG/KG		U												
GAMMA-CHLORDANE	95.00 UG/KG		U												
HEPTACHLOR	9.50 UG/KG		U												
HEPTACHLOR EPOXIDE	9.50 UG/KG		U												
METHOXYCHLOR	95.00 UG/KG		U												
TOXAPHENE	190.00 UG/KG		U												
RADIONUCLIDES															
URANIUM-238							2.40 PCI/G	.4	-	4.80 PCI/G	.8	J			
URANIUM, TOTAL							11.00 MG/KG	2	R	14.58 MG/KG	.8	J	4.00 MG/KG	3	J
URANIUM-234							2.40 PCI/G	.4	-	2.50 PCI/G	.5	J			
THORIUM-230							2.20 PCI/G	.4	-				2.50 PCI/G	.4	-
RADIUM-226							1.10 PCI/G	.1	R				1.00 PCI/G	.2	J
URANIUM-235/236							0.60 PCI/G		U	0.60 PCI/G		UJ			
THORIUM-232							0.90 PCI/G	.2	-				1.70 PCI/G	.3	-
THORIUM, TOTAL							8.21 PCI/G	.2	NV				15.50 PCI/G	.3	NV
RADIUM-228							1.30 PCI/G	.1	R				1.70 PCI/G	.3	J
THORIUM-228							0.90 PCI/G	.2	-				1.40 PCI/G	.3	-
NEPTUNIUM-237							0.60 PCI/G		U				0.60 PCI/G		UJ
PLUTONIUM-239/240							0.60 PCI/G		UJ				0.60 PCI/G		R
PLUTONIUM-238							0.60 PCI/G		U				0.60 PCI/G		R
STRONTIUM-90							0.50 PCI/G		UJ				0.90 PCI/G	.2	J
TECHNETIUM-99							1.00 PCI/G		UJ				1.00 PCI/G		UJ
RUTHENIUM-106							1.00 PCI/G		R				1.50 PCI/G		UJ
CESIUM-137							0.20 PCI/G		R				0.20 PCI/G		UJ

000245

SAMPLE NUMBER:	061254			061258			005884			005644			005645		
LAB:							IT						IT		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				370.00 UG/KG		U									
1,2-DICHLOROBENZENE				370.00 UG/KG		U									
1,3-DICHLOROBENZENE				370.00 UG/KG		U									
1,4-DICHLOROBENZENE				370.00 UG/KG		U									
2,4,5-TRICHLOROPHENOL				1800.00 UG/KG		U									
2,4,6-TRICHLOROPHENOL				370.00 UG/KG		U									
2,4-DICHLOROPHENOL				370.00 UG/KG		U									
2,4-DIMETHYLPHENOL				370.00 UG/KG		U									
2,4-DINITROPHENOL				1800.00 UG/KG		UJ									
2,4-DINITROTOLUENE				370.00 UG/KG		U									
2,6-DINITROTOLUENE				370.00 UG/KG		U									
2-CHLORONAPHTHALENE				370.00 UG/KG		U									
2-CHLOROPHENOL				370.00 UG/KG		U									
2-METHYLNAPHTHALENE				370.00 UG/KG		U									
2-METHYLPHENOL				370.00 UG/KG		U									
2-NITROANILINE				1800.00 UG/KG		U									
2-NITROPHENOL				370.00 UG/KG		U									
3,3'-DICHLOROBENZIDINE				730.00 UG/KG		U									
3-NITROANILINE				1800.00 UG/KG		U									
4,6-DINITRO-2-METHYLPHENOL				1800.00 UG/KG		U									
4-BROMOPHENYL PHENYL ETHER				370.00 UG/KG		U									
4-CHLORO-3-METHYLPHENOL				370.00 UG/KG		U									
4-CHLOROPHENYLPHENYL ETHER				370.00 UG/KG		U									
4-METHYLPHENOL				370.00 UG/KG		U									
4-NITROANILINE				1800.00 UG/KG		U									
4-NITROPHENOL				1800.00 UG/KG		U									
ACENAPHTHENE				370.00 UG/KG		U									
ACENAPHTHYLENE				370.00 UG/KG		U									
ANTHRACENE				370.00 UG/KG		U									
BENZO(A)ANTHRACENE				370.00 UG/KG		U									
BENZO(A)PYRENE				370.00 UG/KG		U									
BENZO(B)FLUORANTHENE				370.00 UG/KG		U									
BENZO(G,H,I)PERYLENE				370.00 UG/KG		U									
BENZO(K)FLUORANTHENE				370.00 UG/KG		U									
BENZOIC ACID				1800.00 UG/KG		UJ									
BENZYL ALCOHOL				370.00 UG/KG		U									
BIS(2-CHLOROETHOXY)METHANE				370.00 UG/KG		U									
BIS(2-CHLOROETHYL)ETHER				370.00 UG/KG		U									
BIS(2-CHLOROISOPROPYL) ETHER				370.00 UG/KG		U									
BIS(2-ETHYLHEXYL)PHTHALATE				370.00 UG/KG		U									
BUTYL BENZYL PHTHALATE				370.00 UG/KG		U									
CHRYSENE				370.00 UG/KG		U									
DI-N-BUTYL PHTHALATE				370.00 UG/KG		U									
DI-N-OCTYL PHTHALATE				370.00 UG/KG		U									
DIBENZO(A,H)ANTHRACENE				370.00 UG/KG		U									

SAMPLE NUMBER:	061254			061258			005884			005644			005645		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIBENZOFURAN				370.00 UG/KG		U									
DIETHYL PHTHALATE				370.00 UG/KG		U									
DIMETHYL PHTHALATE				370.00 UG/KG		U									
FLUORANTHENE				370.00 UG/KG		U									
FLUORENE				370.00 UG/KG		UJ									
HEXACHLOROBENZENE				370.00 UG/KG		U									
HEXACHLOROBUTADIENE				370.00 UG/KG		U									
HEXACHLOROCYCLOPENTADIENE				370.00 UG/KG		U									
HEXACHLOROETHANE				370.00 UG/KG		U									
INDENO(1,2,3-CD)PYRENE				370.00 UG/KG		U									
ISOPHORONE				370.00 UG/KG		U									
N-NITROSO-DI-N-PROPYLAMINE				370.00 UG/KG		U									
N-NITROSODIPHENYLAMINE				370.00 UG/KG		U									
NAPHTHALENE				370.00 UG/KG		U									
NITROBENZENE				370.00 UG/KG		U									
P-CHLOROANILINE				370.00 UG/KG		U									
PENTACHLOROPHENOL				1800.00 UG/KG		U									
PHENANTHRENE				370.00 UG/KG		U									
PHENOL				370.00 UG/KG		U									
PYRENE				370.00 UG/KG		U									
VOLATILES															
1,1,1-TRICHLOROETHANE				5.00 UG/KG		U									
1,1,2,2-TETRACHLOROETHANE				5.00 UG/KG		U									
1,1,2-TRICHLOROETHANE				5.00 UG/KG		U									
1,1-DICHLOROETHANE				5.00 UG/KG		U									
1,1-DICHLOROETHENE				5.00 UG/KG		U									
1,2-DICHLOROETHANE				5.00 UG/KG		U									
1,2-DICHLOROETHENE (TOTAL)				5.00 UG/KG		U									
1,2-DICHLOROPROPANE				5.00 UG/KG		U									
2-BUTANONE				11.00 UG/KG		U									
2-HEXANONE				11.00 UG/KG		U									
4-METHYL-2-PENTANONE				11.00 UG/KG		U									
ACETONE				11.00 UG/KG		UJ									
BENZENE				5.00 UG/KG		U									
BROMODICHLOROMETHANE				5.00 UG/KG		U									
BROMOFORM				5.00 UG/KG		U									
BROMOMETHANE				11.00 UG/KG		UJ									
CARBON DISULFIDE				5.00 UG/KG		U									
CARBON TETRACHLORIDE				5.00 UG/KG		U									
CHLOROBENZENE				5.00 UG/KG		U									
CHLOROETHANE				11.00 UG/KG		U									
CHLOROFORM				5.00 UG/KG		U									
CHLOROMETHANE				11.00 UG/KG		U									

000247

SAMPLE NUMBER:	061254			061258			005884			005644			005645		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CIS-1,3-DICHLOROPROPENE				5.00 UG/KG		U									
DIBROMOCHLOROMETHANE				5.00 UG/KG		U									
ETHYLBENZENE				5.00 UG/KG		U									
METHYLENE CHLORIDE				15.00 UG/KG		UJ									
STYRENE				5.00 UG/KG		U									
TETRACHLOROETHENE				5.00 UG/KG		U									
TOLUENE				5.00 UG/KG		U									
TRANS-1,3-DICHLOROPROPENE				5.00 UG/KG		U									
TRICHLOROETHENE				5.00 UG/KG		U									
VINYL ACETATE				11.00 UG/KG		U									
VINYL CHLORIDE				11.00 UG/KG		U									
XYLENES, TOTAL				5.00 UG/KG		U									

FERNALD ANALYTICAL REPORT
SOILS - OU4 - SILOS

SAMPLE NUMBER:	005646			005650			005651			005652					
TASK:	3.4.2			3.4.2			3.4.2			3.4.2					
LAB:	IT			IT			IT			IT					
WELL OR BORING NUMBER:	ZONE 3-208			ZONE 3-257			ZONE 3-257			ZONE 3-257					
DEPTH:	.333-.5			0-.167			.167-.333			.333-.5			-		
DATE COLLECTED:	19-JUN-88			19-JUN-88			19-JUN-88			19-JUN-88					
NORTH COORDINATE:	480260			480700			480700			480700					
EAST COORDINATE:	1378340			1378400			1378400			1378400					
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL					
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM-238				7.30 PCI/G	1.1	J									
URANIUM, TOTAL	4.00 MG/KG	3	J	22.03 MG/KG	1.1	J	10.00 MG/KG	2	J	12.00 MG/KG	3	J			
URANIUM-234				4.70 PCI/G	.7	J									
THORIUM-230	1.90 PCI/G	.4	-				3.30 PCI/G	.5	-	3.30 PCI/G	.5	-			
RADIUM-226	1.00 PCI/G	.2	J				1.10 PCI/G	.1	J	1.20 PCI/G	.1	J			
URANIUM-235/236				0.60 PCI/G		UJ									
THORIUM-232	1.20 PCI/G	.3	-				1.30 PCI/G	.3	-	1.00 PCI/G	.2	-			
THORIUM, TOTAL	10.94 PCI/G	.3	NV				11.86 PCI/G	.3	NV	9.12 PCI/G	.2	NV			
RADIUM-228	1.40 PCI/G	.3	J				1.00 PCI/G	.2	J	1.20 PCI/G	.2	J			
THORIUM-228	1.20 PCI/G	.3	-				0.90 PCI/G	.2	-	1.00 PCI/G	.2	-			
NEPTUNIUM-237	0.60 PCI/G		UJ				0.60 PCI/G		UJ	0.60 PCI/G		UJ			
PLUTONIUM-239/240	0.60 PCI/G		R				0.60 PCI/G		R	0.60 PCI/G		R			
PLUTONIUM-238	0.60 PCI/G		R				0.60 PCI/G		R	0.60 PCI/G		R			
STRONTIUM-90	0.80 PCI/G	.3	J				2.60 PCI/G	.4	R	1.60 PCI/G	.3	J			
TECHNETIUM-99	1.00 PCI/G		UJ				1.00 PCI/G		UJ	1.00 PCI/G		UJ			
RUTHENIUM-106	1.80 PCI/G		UJ				1.00 PCI/G		UJ	1.10 PCI/G		UJ			
CESIUM-137	0.20 PCI/G		UJ				0.20 PCI/G		UJ	0.20 PCI/G		UJ			

TCLP/EPTOX Data

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020102	020108	020126	020127	020132
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	UNKNOWN	UNKNOWN	WMCO	WMCO	WMCO
WELL OR BORING NUMBER:	035	036	051	052	057
DEPTH:	1-2.5	1-2.5	1-1.5	1-1.5	1-1.5
DATE COLLECTED:	15-MAR-88	17-MAR-88	18-MAR-88	18-MAR-88	18-MAR-88
NORTH COORDINATE:	481600	481800	481300	481250	481300
EAST COORDINATE:	1381950	1381950	1381900	1381900	1381950
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV	16.00 %		NV									
INORGANICS															
ARSENIC							1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
CADMIUM							0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV
CHROMIUM							1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
LEAD							1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
SELENIUM							0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV

000251

57 of 4

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020133	020219	020220	020221	020222
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	WMCO	WMCO	WMCO	WMCO	WMCO
WELL OR BORING NUMBER:	058	065	065	066	066
DEPTH:	1-1.5	1.8-2.3	2.8-3.3	1.8-2.3	2.8-3.3
DATE COLLECTED:	18-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88
NORTH COORDINATE:	481250	481300	481300	481350	481350
EAST COORDINATE:	1381950	1381900	1381900	1381900	1381900
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
BARIUM				25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV
CADMIUM	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV
CHROMIUM	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
LEAD	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
MERCURY				0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SELENIUM	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SILVER				1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV

000252

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020223	020224	020225	020226	020227
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	WMCO	WMCO	WMCO	WMCO	WMCO
WELL OR BORING NUMBER:	067	067	068	068	069
DEPTH:	1.8-2.3	2.8-3.3	1.8-2.3	2.8-3.3	1.8-2.3
DATE COLLECTED:	31-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88
NORTH COORDINATE:	481400	481400	481450	481450	481450
EAST COORDINATE:	1381900	1381900	1381900	1381900	1381950
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	1.00 MG/L		UNV	1.00 MG/L		UNV	0.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
BARIUM	25.00 MG/L		UNV	25.00 MG/L		UNV	0.03 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV
CADMIUM	0.20 MG/L		UNV	0.20 MG/L		UNV	0.00 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV
CHROMIUM	1.00 MG/L		UNV	1.00 MG/L		UNV	0.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
LEAD	1.00 MG/L		UNV	1.00 MG/L		UNV	0.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
MERCURY	0.10 MG/L		UNV	0.10 MG/L		UNV	0.00 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SELENIUM	0.10 MG/L		UNV	0.10 MG/L		UNV	0.00 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SILVER	1.00 MG/L		UNV	1.00 MG/L		UNV	0.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020228	020229	020230	020231	020232
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	WMCO	WMCO	WMCO	WMCO	WMCO
WELL OR BORING NUMBER:	069	070	070	071	071
DEPTH:	2.8-3.3	1.8-2.3	2.8-3.3	1.8-2.3	2.8-3.3
DATE COLLECTED:	31-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88
NORTH COORDINATE:	481450	481400	481400	481350	481350
EAST COORDINATE:	1381950	1381950	1381950	1381950	1381950
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
BARIUM	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV
CADMIUM	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV
CHROMIUM	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
LEAD	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
MERCURY	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SELENIUM	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SILVER	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV

000254

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020233	020234	020235	020236	020237
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	WMCO	WMCO	WMCO	WMCO	WMCO
WELL OR BORING NUMBER:	072	072	073	073	074
DEPTH:	1.8-2.3	2.8-3.3	.8-1.3	1.8-2.3	.8-1.3
DATE COLLECTED:	31-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88	31-MAR-88
NORTH COORDINATE:	481300	481300	481300	481300	481250
EAST COORDINATE:	1381950	1381950	1381925	1381925	1381925
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
BARIUM	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV
CADMIUM	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV
CHROMIUM	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
LEAD	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
MERCURY	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SELENIUM	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SILVER	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020238	020239	020240	020241	020242
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	WMCO	WMCO	WMCO	WMCO	WMCO
WELL OR BORING NUMBER:	074	075	075	076	076
DEPTH:	1.8-2.3	.8-1.3	1.8-2.3	.8-1.3	1.8-2.3
DATE COLLECTED:	31-MAR-88	05-APR-88	05-APR-88	05-APR-88	05-APR-88
NORTH COORDINATE:	481250	481200	481200	481200	481200
EAST COORDINATE:	1381925	1381850	1381850	1381900	1381900
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
BARIUM	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV
CADMIUM	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV
CHROMIUM	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
LEAD	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
MERCURY	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SELENIUM	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SILVER	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV

000256

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020243	020244	020245	020246	020247
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	WMCO	WMCO	WMCO	WMCO	WMCO
WELL OR BORING NUMBER:	077	077	078	078	079
DEPTH:	.8-1.3	1.8-2.3	.8-1.3	1.8-2.3	.8-1.3
DATE COLLECTED:	05-APR-88	05-APR-88	05-APR-88	05-APR-88	05-APR-88
NORTH COORDINATE:	481200	481200	481200	481200	481200
EAST COORDINATE:	1381925	1381925	1381950	1381950	1382000
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
BARIUM	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV	25.00 MG/L		UNV
CADMIUM	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV	0.20 MG/L		UNV
CHROMIUM	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
LEAD	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV
MERCURY	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SELENIUM	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV	0.10 MG/L		UNV
SILVER	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV	1.00 MG/L		UNV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	020248	008186	100600	008619	008620
TASK:	3.8	3.2	03.01.01	3.2	3.2
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	079	1038	1070	1075	1075
DEPTH:	1.8-2.3	0-1.5	0-.5	-	-
DATE COLLECTED:	05-APR-88	02-MAR-88	04-JAN-92	21-JUL-88	21-JUL-88
NORTH COORDINATE:	481200	482055.43	476940.09	481637.42	481637.42
EAST COORDINATE:	1382000	1379622.49	1382104.84	1378535.9	1378535.9
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							21.00 %		NV						
HERBICIDES															
2,4,5-T				0.10 UG/L		UNV									
2,4,5-TP (SILVEX)				0.10 UG/L		UNV									
2,4-D				0.10 UG/L		UNV									
INORGANICS															
ALUMINUM				0.04 MG/L		UJ									
ANTIMONY				0.03 MG/L		UJ									
ARSENIC	1.00 MG/L		UNV	0.00 MG/L		NV				0.01 MG/L		-	0.01 MG/L		-
BARIUM	25.00 MG/L		UNV	0.05 MG/L		J				0.48 MG/L		J	0.08 MG/L		J
BERYLLIUM				0.00 MG/L		UJ									
CADMIUM	0.20 MG/L		UNV	0.01 MG/L		UJ				0.01 MG/L		-	0.01 MG/L		U
CALCIUM				141.00 MG/L		J									
CHROMIUM	1.00 MG/L		UNV	0.01 MG/L		UJ				0.06 MG/L		-	0.04 MG/L		-
COBALT				0.02 MG/L		UJ									
COPPER				0.01 MG/L		UJ									
CYANIDE				0.02 MG/L		UJ									
IRON				0.04 MG/L		J									
LEAD	1.00 MG/L		UNV	0.01 MG/L		UJ				0.11 MG/L		-	0.06 MG/L		-
MAGNESIUM				66.00 MG/L		J									
MANGANESE				0.26 MG/L		J									
MERCURY	0.10 MG/L		UNV	0.00 MG/L		UJ				0.00 MG/L		UJ	0.00 MG/L		UJ
NICKEL				0.02 MG/L		UJ									
POTASSIUM				1.72 MG/L		J									
SELENIUM	0.10 MG/L		UNV	0.00 MG/L		UJ				0.05 MG/L		U	0.01 MG/L		U
SILVER	1.00 MG/L		UNV	0.01 MG/L		J				0.02 MG/L		-	0.01 MG/L		U

000258

SAMPLE NUMBER:	020248			008186			100600			008619			008620		
LAB:	WMCO			IT						IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
SODIUM				10.40 MG/L		J									
THALLIUM				0.02 MG/L		UJ									
VANADIUM				0.01 MG/L		UJ									
ZINC				0.03 MG/L		J									
PESTICIDES															
4,4'-DDD				0.10 UG/L		UNV									
4,4'-DDE				0.10 UG/L		UNV									
4,4'-DDT				0.10 UG/L		UNV									
ALDRIN				0.05 UG/L		UNV									
ALPHA-BHC				0.05 UG/L		UNV									
ALPHA-CHLORDANE				0.50 UG/L		UNV									
AROCLOR-1016				0.50 UG/L		UJ									
AROCLOR-1221				0.50 UG/L		UJ									
AROCLOR-1232				0.50 UG/L		UJ									
AROCLOR-1242				0.50 UG/L		UJ									
AROCLOR-1248				0.50 UG/L		UJ									
AROCLOR-1254				1.00 UG/L		UJ									
AROCLOR-1260				1.00 UG/L		UJ									
BETA-BHC				0.05 UG/L		UNV									
DELTA-BHC				0.05 UG/L		UNV									
DIELDRIN				0.10 UG/L		UNV									
ENDOSULFAN II				0.10 UG/L		UNV									
ENDOSULFAN SULFATE				0.10 UG/L		UNV									
ENDOSULFAN-I				0.05 UG/L		UNV									
ENDRIN				0.10 UG/L		UNV									
ENDRIN KETONE				0.10 UG/L		UNV									
GAMMA-BHC (LINDANE)				0.05 UG/L		UNV									
GAMMA-CHLORDANE				0.50 UG/L		UNV									
HEPTACHLOR				0.05 UG/L		UNV									
HEPTACHLOR EPOXIDE				0.05 UG/L		UNV									
METHOXYCHLOR				0.50 UG/L		UNV									
TOXAPHENE				1.00 UG/L		UJ									
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE				10.00 UG/L		UNV									
1,2-DICHLOROBENZENE				10.00 UG/L		UNV									
1,3-DICHLOROBENZENE				10.00 UG/L		UNV									
1,4-DICHLOROBENZENE				10.00 UG/L		UNV									
2,4,5-TRICHLOROPHENOL				50.00 UG/L		UNV									
2,4,6-TRICHLOROPHENOL				10.00 UG/L		UNV									
2,4-DICHLOROPHENOL				10.00 UG/L		UNV									
2,4-DIMETHYLPHENOL				10.00 UG/L		UNV									

SAMPLE NUMBER:	020248			008186			100600			008619			008620		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4-DINITROPHENOL				50.00 UG/L		UNV									
2,4-DINITROTOLUENE				10.00 UG/L		UNV									
2,6-DINITROTOLUENE				10.00 UG/L		UNV									
2-CHLORONAPHTHALENE				10.00 UG/L		UNV									
2-CHLOROPHENOL				10.00 UG/L		UNV									
2-METHYLNAPHTHALENE				10.00 UG/L		UNV									
2-METHYLPHENOL				10.00 UG/L		UNV									
2-NITROANILINE				50.00 UG/L		UNV									
2-NITROPHENOL				10.00 UG/L		UNV									
3,3'-DICHLOROBENZIDINE				20.00 UG/L		UJ									
3-NITROANILINE				50.00 UG/L		R									
4,6-DINITRO-2-METHYLPHENOL				50.00 UG/L		UNV									
4-BROMOPHENYL PHENYL ETHER				10.00 UG/L		UNV									
4-CHLORO-3-METHYLPHENOL				10.00 UG/L		UNV									
4-CHLOROPHENYLPHENYL ETHER				10.00 UG/L		UNV									
4-METHYLPHENOL				10.00 UG/L		UNV									
4-NITROANILINE				50.00 UG/L		R									
4-NITROPHENOL				50.00 UG/L		UNV									
ACENAPHTHENE				10.00 UG/L		UNV									
ACENAPHTHYLENE				10.00 UG/L		UNV									
ANTHRACENE				10.00 UG/L		UNV									
BENZO(A)ANTHRACENE				10.00 UG/L		UNV									
BENZO(A)PYRENE				10.00 UG/L		UNV									
BENZO(B)FLUORANTHENE				10.00 UG/L		UNV									
BENZO(G,H,I)PERYLENE				10.00 UG/L		UNV									
BENZO(K)FLUORANTHENE				10.00 UG/L		UNV									
BENZOIC ACID				50.00 UG/L		UJ									
BENZYL ALCOHOL				10.00 UG/L		UNV									
BIS(2-CHLOROETHOXY)METHANE				10.00 UG/L		UNV									
BIS(2-CHLOROETHYL)ETHER				10.00 UG/L		UNV									
BIS(2-CHLOROISOPROPYL) ETHER				10.00 UG/L		UNV									
BIS(2-ETHYLHEXYL)PHTHALATE				2.00 UG/L		R									
BUTYL BENZYL PHTHALATE				10.00 UG/L		UNV									
CHRYSENE				10.00 UG/L		UNV									
DI-N-BUTYL PHTHALATE				10.00 UG/L		UNV									
DI-N-OCTYL PHTHALATE				10.00 UG/L		UNV									
DIBENZO(A,H)ANTHRACENE				10.00 UG/L		UNV									
DIBENZOFURAN				10.00 UG/L		UNV									
DIETHYL PHTHALATE				10.00 UG/L		UNV									
DIMETHYL PHTHALATE				10.00 UG/L		UNV									
FLUORANTHENE				10.00 UG/L		UNV									
FLUORENE				10.00 UG/L		UNV									
HEXACHLOROBENZENE				10.00 UG/L		UNV									
HEXACHLOROBUTADIENE				10.00 UG/L		UNV									
HEXACHLOROCYCLOPENTADIENE				10.00 UG/L		UNV									

000280

SAMPLE NUMBER:	020248			008186			100600			008619			008620		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
HEXACHLOROETHANE				10.00 UG/L		UNV									
INDENO(1,2,3-CD)PYRENE				10.00 UG/L		UNV									
ISOPHORONE				10.00 UG/L		UNV									
N-NITROSO-DI-N-PROPYLAMINE				10.00 UG/L		UNV									
N-NITROSODIPHENYLAMINE				10.00 UG/L		UNV									
NAPHTHALENE				10.00 UG/L		UNV									
NITROBENZENE				10.00 UG/L		UNV									
P-CHLOROANILINE				10.00 UG/L		R									
PENTACHLOROPHENOL				50.00 UG/L		UNV									
PHENANTHRENE				10.00 UG/L		UNV									
PHENOL				10.00 UG/L		UNV									
PYRENE				10.00 UG/L		UNV									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	008622	008623	008624	008625	008626
TASK:	3.2	3.2	3.2	3.2	3.2
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1075	1075	1075	1075	1075
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-JUL-88	21-JUL-88	21-JUL-88	21-JUL-88	21-JUL-88
NORTH COORDINATE:	481637.42	481637.42	481637.42	481637.42	481637.42
EAST COORDINATE:	1378535.9	1378535.9	1378535.9	1378535.9	1378535.9
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	0.01 MG/L		-	0.05 MG/L		-	0.01 MG/L		U	0.01 MG/L		U	0.10 MG/L		-
BARIUM	0.54 MG/L		J	0.38 MG/L		J	0.68 MG/L		J	0.76 MG/L		J	0.42 MG/L		J
CADMIUM	0.01 MG/L		-	0.01 MG/L		-	0.01 MG/L		U	0.01 MG/L		-	0.01 MG/L		-
CHROMIUM	0.05 MG/L		-	0.03 MG/L		-	0.04 MG/L		-	0.05 MG/L		-	0.04 MG/L		-
LEAD	0.10 MG/L		-	0.08 MG/L		-	0.08 MG/L		-	0.10 MG/L		-	0.08 MG/L		-
MERCURY	0.00 MG/L		J	0.00 MG/L		UJ	0.00 MG/L		UJ	0.00 MG/L		J	0.00 MG/L		UJ
SELENIUM	0.01 MG/L		U	0.01 MG/L		U	0.01 MG/L		U	0.01 MG/L		U	0.01 MG/L		U
SILVER	0.01 MG/L		-	0.01 MG/L		-	0.01 MG/L		-	0.01 MG/L		-	0.01 MG/L		-

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	008627	119065	119705	119492	119432
TASK:	3.2	50.03.22	50.03.22	50.03.22	50.03.22
LAB:	IT	IT	IT	TCT	TCT
WELL OR BORING NUMBER:	1075	11067	11077	11078	11079
DEPTH:	-	0-20	-	0-10	-
DATE COLLECTED:	21-JUL-88	11-JUN-93	23-JUN-93	01-JUL-93	30-JUN-93
NORTH COORDINATE:	481637.42	480193.68	481247.74	482143.6	481038.41
EAST COORDINATE:	1378535.9	1382782.71	1378975.42	1379841.59	1378471.71
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	0.01 MG/L		-	0.05 MG/L		UJ	0.05 MG/L		UJ	0.09 MG/L		UJ	0.09 MG/L		UJ
BARIUM	0.72 MG/L		J	0.73 MG/L		J	0.73 MG/L		-	1.42 MG/L		U	0.85 MG/L		U
CADMIUM	0.01 MG/L		-	0.01 MG/L		UJ	0.01 MG/L		U	0.01 MG/L		UJ	0.01 MG/L		UJ
CHROMIUM	0.04 MG/L		-	0.01 MG/L		UJ	0.02 MG/L		-	0.01 MG/L		-	0.01 MG/L		U
LEAD	0.08 MG/L		-	0.04 MG/L		UJ	0.04 MG/L		UJ	0.06 MG/L		UJ	0.06 MG/L		UJ
MERCURY	0.00 MG/L		UJ	0.00 MG/L		UJ	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
SELENIUM	0.01 MG/L		U	0.08 MG/L		UJ	0.08 MG/L		J	0.11 MG/L		UJ	0.11 MG/L		UJ
SILVER	0.01 MG/L		-	0.01 MG/L		UJ	0.01 MG/L		U	0.01 MG/L		U	0.01 MG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	122582	121197	051413	016595	016597
TASK:	50.03.18	50.03.18	3.7	3.7	3.7
LAB:	CORE	CORE	IT	IT	IT
WELL OR BORING NUMBER:	11111	11196	1148	1183	1183
DEPTH:	15-15.5	1-1.5	4.5-5	0-.5	.5-1
DATE COLLECTED:	25-JUL-93	12-JUL-93	02-AUG-89	23-OCT-89	23-OCT-89
NORTH COORDINATE:	480985.24	481847.23	480424.65	480704.01	480704.01
EAST COORDINATE:	1381182.5	1380798.11	1381655.96	1380355.3	1380355.3
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							20.00 %		NV	11.00 %		NV	15.00 %		NV
RADIONUCLIDES															
THORIUM-232	0.50 PCI/L	.2	J	0.40 PCI/L	.2	J									

000264

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	051755	051954	017276	017719	000841
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1184	1193	1213	1234	1247
DEPTH:	5-5.5	6-7.5	6.5-7	0-.5	-
DATE COLLECTED:	06-JUN-89	01-DEC-89	04-JUN-89	27-JUL-89	25-AUG-91
NORTH COORDINATE:	480702.37	480634.42	480519.86	480207.9	479914.24
EAST COORDINATE:	1380398.11	1380378.43	1380217.86	1380230.49	1379929.82
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	5.00 % MOISTURE		NV	23.00 %		NV	0.00 % MOISTURE		NV	0.00 % MOISTURE		NV			
HERBICIDES															
2,4,5-TP (SILVEX)													17.00 UG/L		U
2,4-D													120.00 UG/L		U
INORGANICS															
ARSENIC													0.05 MG/L		U
BARIUM													0.94 MG/L		U
CADMIUM													0.00 MG/L		U
CHROMIUM													0.00 MG/L		U
LEAD													0.04 MG/L		U
MERCURY													0.00 MG/L		UJ
SELENIUM													0.07 MG/L		U
SILVER													0.01 MG/L		U
PESTICIDES															
CHLORDANE													0.70 UG/L		U
ENDRIN													0.30 UG/L		U
GAMMA-BHC (LINDANE)													0.20 UG/L		U
HEPTACHLOR													0.15 UG/L		U
HEPTACHLOR EPOXIDE													4.20 UG/L		U
METHOXYCHLOR													8.80 UG/L		U
TOXAPHENE													12.00 UG/L		U
SEMIVOLATILES															

000265

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	051755			051954			017276			017719			000841		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL													40.00 UG/L		U
2,4,6-TRICHLOROPHENOL													40.00 UG/L		U
2,4-DINITROTOLUENE													40.00 UG/L		U
2-METHYLPHENOL													40.00 UG/L		U
4-METHYLPHENOL													40.00 UG/L		U
HEXACHLOROBENZENE													40.00 UG/L		U
HEXACHLOROBUTADIENE													40.00 UG/L		U
HEXACHLOROETHANE													40.00 UG/L		U
NITROBENZENE													40.00 UG/L		U
PENTACHLOROPHENOL													200.00 UG/L		U
PYRIDINE													400.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE													50.00 UG/L		U
1,2-DICHLOROETHANE													50.00 UG/L		U
2-BUTANONE													100.00 UG/L		U
BENZENE													50.00 UG/L		U
CARBON TETRACHLORIDE													50.00 UG/L		U
CHLOROBENZENE													50.00 UG/L		U
CHLOROFORM													50.00 UG/L		U
TETRACHLOROETHENE													29.00 UG/L		U
TRICHLOROETHENE													50.00 UG/L		U
VINYL CHLORIDE													100.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	052652	018069	018071	052733	052753
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1247	1250	1250	1251	1252
DEPTH:	-	0-.5	.5-1	-	0-.5
DATE COLLECTED:	04-DEC-90	09-JAN-90	09-JAN-90	08-JAN-91	15-JUN-89
NORTH COORDINATE:	479914.24	479809.04	479809.04	479870.6	479805.02
EAST COORDINATE:	1379929.82	1379858.62	1379858.62	1379933.54	1379911.5
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				13.00 %		NV	16.00 %		NV				11.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		UJ							1.80 UG/L		U			
2,4-D	12.00 UG/L		UJ							12.00 UG/L		U			
INORGANICS															
ARSENIC	0.34 MG/L		U							0.29 MG/L		-			
BARIUM	1.32 MG/L		-							0.68 MG/L		-			
CADMIUM	0.03 MG/L		J							0.02 MG/L		-			
CHROMIUM	0.16 MG/L		-							0.10 MG/L		-			
LEAD	0.20 MG/L		U							0.20 MG/L		U			
MERCURY	0.00 MG/L		U							0.00 MG/L		U			
SELENIUM	0.40 MG/L		U							0.40 MG/L		U			
SILVER	0.17 MG/L		-							0.15 MG/L		-			
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		UJ			
PESTICIDES															
ALPHA-CHLORDANE	1.00 UG/L		UJ							1.00 UG/L		UNV			
CHLORDANE	2.00 UG/L		UJ												
ENDRIN	0.20 UG/L		UJ							0.10 UG/L		U			
GAMMA-BHC (LINDANE)	0.10 UG/L		UJ							0.10 UG/L		UNV			
GAMMA-CHLORDANE	1.00 UG/L		UJ							1.00 UG/L		UNV			
HEPTACHLOR	0.10 UG/L		UJ							0.05 UG/L		U			

SAMPLE NUMBER:	052652			018069			018071			052733			052753		
LAB:	IT									IT					
SUFFIX/FILTERFLAG:	NONE-NA			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE	0.10 UG/L		UJ							0.05 UG/L		U			
METHOXYCHLOR	1.00 UG/L		UJ							1.00 UG/L		UNV			
TOXAPHENE	2.00 UG/L		UJ							1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		UJ			
2,4,5-TRICHLOROPHENOL										100.00 UG/L		UJ			
2,4,6-TRICHLOROPHENOL										20.00 UG/L		UJ			
2,4-DINITROTOLUENE										20.00 UG/L		UJ			
2-METHYLPHENOL										20.00 UG/L		UJ			
4-METHYLPHENOL										20.00 UG/L		UJ			
HEXACHLOROBENZENE										20.00 UG/L		UNV			
HEXACHLOROBUTADIENE										20.00 UG/L		UNV			
HEXACHLOROETHANE										20.00 UG/L		UJ			
NITROBENZENE										20.00 UG/L		UNV			
PENTACHLOROPHENOL										100.00 UG/L		UJ			
PYRIDINE										20.00 UG/L		UJ			
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U			
1,2-DICHLOROETHANE										5.00 UG/L		U			
2-BUTANONE										10.00 UG/L		U			
BENZENE										5.00 UG/L		U			
CARBON TETRACHLORIDE										5.00 UG/L		U			
CHLOROBENZENE										5.00 UG/L		U			
CHLOROFORM										5.00 UG/L		U			
TETRACHLOROETHENE										5.00 UG/L		U			
TRICHLOROETHENE										5.00 UG/L		U			
VINYL CHLORIDE										10.00 UG/L		U			

000268

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	052754	052873	052893	018289	018290
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT-KNOX	IT	IT
WELL OR BORING NUMBER:	1252	1258	1259	1260	1260
DEPTH:	.5-1	-	-	0-.5	.5-1
DATE COLLECTED:	15-JUN-89	10-SEP-90	09-SEP-90	15-JUN-89	15-JUN-89
NORTH COORDINATE:	479805.02	479746.35	479741.4	479755.59	479755.59
EAST COORDINATE:	1379911.5	1379938.82	1379978.37	1379915.71	1379915.71
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV							11.00 %		NV	5.00 % MOISTURE		NV
HERBICIDES															
2,4,5-TP (SILVEX)				2.00 UG/L		U	2.00 UG/L		U						
2,4-D				12.00 UG/L		U	13.00 UG/L		U						
INORGANICS															
ARSENIC				0.08 MG/L		-	0.25 MG/L		U						
BARIUM				0.70 MG/L		-	0.89 MG/L		-						
CADMIUM				0.01 MG/L		-	0.01 MG/L		-						
CHROMIUM				0.01 MG/L		U	0.14 MG/L		-						
LEAD				0.05 MG/L		-	0.20 MG/L		U						
MERCURY				0.00 MG/L		U	0.00 MG/L		UJ						
SELENIUM				0.10 MG/L		-	0.16 MG/L		U						
SILVER				0.01 MG/L		U	0.10 MG/L		-						
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U						
PESTICIDES															
CHLORDANE				0.50 UG/L		U	0.50 UG/L		U						
ENDRIN				0.10 UG/L		U	0.10 UG/L		U						
GAMMA-BHC (LINDANE)				0.05 UG/L		U	0.05 UG/L		U						
HEPTACHLOR				0.05 UG/L		U	0.05 UG/L		U						
HEPTACHLOR EPOXIDE				0.05 UG/L		U	0.05 UG/L		U						
METHOXYCHLOR				0.50 UG/L		U	0.50 UG/L		U						

SAMPLE NUMBER:	052754			052873			052893			018289			018290		
LAB:				IT			IT-KNOX								
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE				1.00 UG/L		U	1.00 UG/L		U						
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		U						
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U	20.00 UG/L		U						
2,4-DINITROTOLUENE				20.00 UG/L		U	20.00 UG/L		U						
2-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U						
4-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROBUTADIENE				20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROETHANE				20.00 UG/L		U	20.00 UG/L		U						
NITROBENZENE				20.00 UG/L		U	20.00 UG/L		U						
PENTACHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U						
PYRIDINE				20.00 UG/L		U	20.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U						
2-BUTANONE				10000.00 UG/L		U	10.00 UG/L		U						
BENZENE				5.00 UG/L		U	5.00 UG/L		U						
CARBON TETRACHLORIDE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROFORM				5.00 UG/L		U	5.00 UG/L		U						
TETRACHLOROETHENE				2.00 UG/L		U	5.00 UG/L		U						
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
VINYL CHLORIDE				10.00 UG/L		U	10.00 UG/L		U						

000270

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	052933	018421	018422	018883	018884
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1261	1266	1266	1287	1287
DEPTH:	-	0-.5	.5-1	0-.5	.5-1
DATE COLLECTED:	18-NOV-90	13-JUN-89	13-JUN-89	17-JUL-89	17-JUL-89
NORTH COORDINATE:	479784.63	479713.63	479713.63	481634.92	481634.92
EAST COORDINATE:	1380025.49	1380213.49	1380213.49	1380992.27	1380992.27
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	R-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				23.00 %		NV	10.00 %		NV	11.00 %		NV	12.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	2.00 UG/L		U												
2,4-D	13.50 UG/L		U												
INORGANICS															
ARSENIC	0.19 MG/L		U												
BARIUM	0.44 MG/L		-												
CADMIUM	0.00 MG/L		-												
CHROMIUM	0.01 MG/L		U												
LEAD	0.04 MG/L		U												
MERCURY	0.00 MG/L		U												
SELENIUM	0.15 MG/L		-												
SILVER	0.02 MG/L		-												
PESTICIDES															
ALPHA-CHLORDANE	1.00 UG/L		U												
CHLORDANE	2.00 UG/L		U												
ENDRIN	0.20 UG/L		U												
GAMMA-BHC (LINDANE)	0.10 UG/L		U												
GAMMA-CHLORDANE	1.00 UG/L		U												
HEPTACHLOR	0.10 UG/L		U												
HEPTACHLOR EPOXIDE	0.10 UG/L		U												
METHOXYCHLOR	1.00 UG/L		U												
TOXAPHENE	2.00 UG/L		U												

VOLATILES

1,1-DICHLOROETHENE 5.00 UG/L U
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	052933			018421			018422			018883			018884		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHANE	5.00 UG/L		U												
2-BUTANONE	10.00 UG/L		U												
BENZENE	5.00 UG/L		U												
CARBON TETRACHLORIDE	5.00 UG/L		U												
CHLOROBENZENE	5.00 UG/L		U												
CHLOROFORM	5.00 UG/L		U												
TETRACHLOROETHENE	40.00 UG/L		-												
TRICHLOROETHENE	3.00 UG/L		J												
VINYL CHLORIDE	10.00 UG/L		U												

000272

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	053473	053474	019039	019345	019346
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1288	1288	1294	1308	1308
DEPTH:	0-.5	.5-1	2-3	0-.5	.5-1
DATE COLLECTED:	18-JUN-89	18-JUN-89	25-JUL-89	04-DEC-89	04-DEC-89
NORTH COORDINATE:	481643.94	481643.94	481401.55	480996.29	480996.29
EAST COORDINATE:	1381188.45	1381188.45	1381678.97	1381154.48	1381154.48
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	13.00 %		NV	0.00 % MOISTURE		NV	7.00 % MOISTURE		NV	4.00 % MOISTURE		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	019525	054053	054054	054193	019763
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1316	1317	1317	1324	1327
DEPTH:	2-2.5	1-1.5	1.5-2	4.5-5	0-.5
DATE COLLECTED:	19-NOV-89	14-NOV-89	14-NOV-89	03-NOV-89	23-OCT-89
NORTH COORDINATE:	480963.42	480947.54	480947.54	480828.51	480751.73
EAST COORDINATE:	1380974.63	1381246.91	1381246.91	1381681.83	1381356.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	10.00 %		NV	10.00 %		NV	14.00 %		NV	7.00 % MOISTURE		NV

000274

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	019764	050159	050160	054615	054616
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1327	1345	1345	1346	1346
DEPTH:	.5-1	1-1.5	1.5-2	1-1.5	1.5-2
DATE COLLECTED:	23-OCT-89	29-AUG-89	29-AUG-89	07-JAN-90	07-JAN-90
NORTH COORDINATE:	480751.73	481240.48	481240.48	481245.67	481245.67
EAST COORDINATE:	1381356.86	1380144.5	1380144.5	1380178.9	1380178.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	15.00 %		NV	30.00 %		NV	10.00 %		NV	21.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	050554			050555			054995			054996			055089		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1363			1363			1411			1411			1412		
DEPTH:	0-.5			.5-1			9.5-10			10-10.5			5.5-6		
DATE COLLECTED:	25-JUL-89			25-JUL-89			20-JUN-89			20-JUN-89			30-JUN-89		
NORTH COORDINATE:	481611.99			481611.99			479800.96			479800.96			480702.37		
EAST COORDINATE:	1381150.58			1381150.58			1379914.91			1379914.91			1380398.11		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			DL-NA			DL-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	8.00 % MOISTURE		NV	18.00 %		NV	23.00 %		NV	4.00 % MOISTURE		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	047032	055906	055919	055932	055945
TASK:	20.03.04	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1433	1456	1459	1462	1465
DEPTH:	-	3.75-3.75	5-5	4-4	3.5-3.8
DATE COLLECTED:	29-JUL-92	05-NOV-89	06-NOV-89	07-NOV-89	08-NOV-89
NORTH COORDINATE:	477991.53	477940	477905	477867	477709
EAST COORDINATE:	1379116.16	1379479	1379631	1379784	1379566
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				12.00 %		NV	8.00 % MOISTURE		NV	14.00 %		NV	17.00 %		NV
PH	8.10 SU		J												
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U												
2,4-D	10.00 UG/L		U												
INORGANICS															
ARSENIC	0.05 MG/L		U												
BARIUM	0.84 MG/L		-												
CADMIUM	0.01 MG/L		U												
CHROMIUM	0.01 MG/L		U												
LEAD	0.04 MG/L		U												
MERCURY	0.00 MG/L		U												
SELENIUM	0.08 MG/L		U												
SILVER	0.01 MG/L		U												
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U												
ENDRIN	0.10 UG/L		U												
GAMMA-BHC (LINDANE)	0.05 UG/L		U												
GAMMA-CHLORDANE	0.50 UG/L		U												
HEPTACHLOR	0.05 UG/L		U												
HEPTACHLOR EPOXIDE	0.05 UG/L		U												
METHOXYCHLOR	0.50 UG/L		U												
TOXAPHENE	1.00 UG/L		U												

SEMIVOLATILES

1,4-DICHLOROBENZENE 20.00 UG/L U

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	047032			055906			055919			055932			055945		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U												
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U												
2,4-DINITROTOLUENE	20.00 UG/L		U												
2-METHYLPHENOL	20.00 UG/L		U												
4-METHYLPHENOL	20.00 UG/L		U												
HEXACHLOROBENZENE	20.00 UG/L		U												
HEXACHLOROBUTADIENE	20.00 UG/L		U												
HEXACHLOROETHANE	20.00 UG/L		U												
NITROBENZENE	20.00 UG/L		U												
PENTACHLOROPHENOL	100.00 UG/L		U												
PYRIDINE	20.00 UG/L		U												
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U												
1,2-DICHLOROETHANE	5.00 UG/L		U												
2-BUTANONE	10.00 UG/L		U												
BENZENE	5.00 UG/L		U												
CARBON TETRACHLORIDE	5.00 UG/L		U												
CHLOROBENZENE	5.00 UG/L		U												
CHLOROFORM	5.00 UG/L		U												
TETRACHLOROETHENE	5.00 UG/L		U												
TRICHLOROETHENE	5.00 UG/L		U												
VINYL CHLORIDE	10.00 UG/L		U												

000278

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	055959			055972			055988			056022			056039		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1468			1471			1474			1481			1482		
DEPTH:	3.75-4			5-5.25			9.9-10			15-15			14-14		
DATE COLLECTED:	14-NOV-89			16-NOV-89			17-NOV-89			20-NOV-89			05-DEC-89		
NORTH COORDINATE:	477633			477395			478370.67			480852.84			480432.95		
EAST COORDINATE:	1379700			1379639			1379255.59			1378343.75			1379047.07		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	14.00 %		NV	15.00 %		NV	8.00 % MOISTURE		NV	17.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056055	000809	000767	000769	051160
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1485	1502	1503	1504	1508
DEPTH:	15-15	-	-	-	2-2.5
DATE COLLECTED:	07-DEC-89	10-JUL-90	01-JUL-90	12-SEP-90	04-FEB-90
NORTH COORDINATE:	481920.13	480463.56	480350.32	479800.96	482565.57
EAST COORDINATE:	1379767.41	1380433.65	1380265.92	1379908.91	1380840.06
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	R-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV										20.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				2.00 UG/L		UR	2.00 UG/L		UJ	2.00 UG/L		UJ			
2,4-D				12.00 UG/L		UR	12.00 UG/L		UJ	13.00 UG/L		UJ			
INORGANICS															
ARSENIC				0.12 MG/L		U	0.10 MG/L		-	0.13 MG/L		U			
BARIUM				0.82 MG/L		-	1.17 MG/L		-	1.54 MG/L		-			
CADMIUM				0.01 MG/L		-	0.01 MG/L		-	0.01 MG/L		-			
CHROMIUM				0.04 MG/L		-	0.07 MG/L		-	0.01 MG/L		U			
LEAD				0.04 MG/L		U	0.04 MG/L		U	0.04 MG/L		U			
MERCURY				0.00 MG/L		U	0.00 MG/L		UJ	0.00 MG/L		U			
SELENIUM				0.08 MG/L		U	0.11 MG/L		-	0.11 MG/L		U			
SILVER				0.02 MG/L		-	0.03 MG/L		-	0.01 MG/L		U			
No sort code listed.															
3-METHYLPHENOL				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
PESTICIDES															
CHLORDANE				1.00 UG/L		UR	0.50 UG/L		UJ	1.00 UG/L		UJ			
ENDRIN				0.20 UG/L		UR	0.10 UG/L		UJ	0.20 UG/L		UJ			
GAMMA-BHC (LINDANE)				0.10 UG/L		UR	0.05 UG/L		UJ	0.10 UG/L		UJ			
HEPTACHLOR				0.10 UG/L		UR	0.05 UG/L		UJ	0.10 UG/L		UJ			
HEPTACHLOR EPOXIDE				0.10 UG/L		UR	0.05 UG/L		UJ	0.10 UG/L		UJ			
METHOXYCHLOR				1.00 UG/L		UR	0.50 UG/L		UJ	1.00 UG/L		UJ			

000280

SAMPLE NUMBER:	056055			000809			000767			000769			051160		
LAB:				IT			IT			IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE				2.00 UG/L		UR	1.00 UG/L		UJ	2.00 UG/L		UJ			
SEMIVOLATILES															
1,4-DICHLOROBENZENE				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
2,4,5-TRICHLOROPHENOL				54.00 UG/L		UR	52.00 UG/L		UJ	100.00 UG/L		UJ			
2,4,6-TRICHLOROPHENOL				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
2,4-DINITROTOLUENE				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
2-METHYLPHENOL				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
4-METHYLPHENOL				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
HEXACHLOROBENZENE				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
HEXACHLOROBUTADIENE				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
HEXACHLOROETHANE				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
NITROBENZENE				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
PENTACHLOROPHENOL				54.00 UG/L		UR	52.00 UG/L		UJ	100.00 UG/L		UJ			
PYRIDINE				11.00 UG/L		UR	10.00 UG/L		UJ	20.00 UG/L		UJ			
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		UJ			
1,2-DICHLOROETHANE										5.00 UG/L		UJ			
2-BUTANONE										10.00 UG/L		UJ			
BENZENE										5.00 UG/L		UJ			
CARBON TETRACHLORIDE										5.00 UG/L		UJ			
CHLOROBENZENE										5.00 UG/L		UJ			
CHLOROFORM										5.00 UG/L		UJ			
TETRACHLOROETHENE										12.00 UG/L		J			
TRICHLOROETHENE										5.00 UG/L		UJ			
VINYL CHLORIDE										10.00 UG/L		UJ			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	051161	054059	054439	051679	053519
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1509	1510	1511	1512	1513
DEPTH:	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5
DATE COLLECTED:	04-FEB-90	04-FEB-90	05-FEB-90	06-FEB-90	06-FEB-90
NORTH COORDINATE:	482519.65	482519.62	482563.57	482541.56	482549.47
EAST COORDINATE:	1380840.66	1380877.9	1380881.74	1380926.1	1380951.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	20.00 %		NV	20.00 %		NV	23.00 %		NV	19.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	053782	052259	055699	055658	055617
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1514	1515	1519	1520	1521
DEPTH:	2-2.5	2-2.5	-	-	-
DATE COLLECTED:	06-FEB-90	07-FEB-90	01-JUL-90	01-JUL-90	01-JUL-90
NORTH COORDINATE:	482540.76	482532.1	479415.88	479412.63	479410.73
EAST COORDINATE:	1380973.96	1380949.31	1379823.08	1379852.23	1379883.13
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV	22.00 %		NV									
HERBICIDES															
2,4,5-TP (SILVEX)							2.00 UG/L		UJ	2.00 UG/L		UJ	2.00 UG/L		UJ
2,4-D							13.00 UG/L		UJ	12.00 UG/L		UJ	12.00 UG/L		UJ
INORGANICS															
ARSENIC							0.14 MG/L		-	0.11 MG/L		-	0.08 MG/L		-
BARIUM							0.87 MG/L		-	0.61 MG/L		-	1.10 MG/L		-
CADMIUM							0.00 MG/L		-	0.01 MG/L		-	0.00 MG/L		-
CHROMIUM							0.04 MG/L		-	0.05 MG/L		-	0.05 MG/L		-
LEAD							0.04 MG/L		U	0.05 MG/L		-	0.04 MG/L		U
MERCURY							0.00 MG/L		UJ	0.00 MG/L		UJ	0.00 MG/L		UJ
SELENIUM							0.12 MG/L		-	0.13 MG/L		-	0.09 MG/L		-
SILVER							0.02 MG/L		-	0.03 MG/L		-	0.02 MG/L		-
No sort code listed.															
3-METHYLPHENOL							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
PESTICIDES															
CHLORDANE							0.50 UG/L		UJ	0.60 UG/L		UJ	0.50 UG/L		UJ
ENDRIN							0.10 UG/L		UJ	0.10 UG/L		UJ	0.10 UG/L		UJ
GAMMA-BHC (LINDANE)							0.05 UG/L		UJ	0.06 UG/L		UJ	0.05 UG/L		UJ
HEPTACHLOR							0.05 UG/L		UJ	0.06 UG/L		UJ	0.05 UG/L		UJ
HEPTACHLOR EPOXIDE							0.05 UG/L		UJ	0.06 UG/L		UJ	0.05 UG/L		UJ
METHOXYCHLOR							0.50 UG/L		UJ	0.60 UG/L		UJ	0.50 UG/L		UJ

000283

5704

SAMPLE NUMBER:	053782			052259			055699			055658			055617		
LAB:							IT			IT			IT		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE							1.00 UG/L		UJ	1.00 UG/L		UJ	1.00 UG/L		UJ
SEMIVOLATILES															
1,4-DICHLOROBENZENE							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
2,4,5-TRICHLOROPHENOL							52.00 UG/L		UJ	60.00 UG/L		UJ	56.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
2,4-DINITROTOLUENE							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
2-METHYLPHENOL							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
4-METHYLPHENOL							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
HEXACHLOROBENZENE							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
HEXACHLOROBUTADIENE							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
HEXACHLOROETHANE							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
NITROBENZENE							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ
PENTACHLOROPHENOL							52.00 UG/L		UJ	60.00 UG/L		UJ	56.00 UG/L		UJ
PYRIDINE							10.00 UG/L		UJ	12.00 UG/L		UJ	11.00 UG/L		UJ

000284

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056375	056376	056095	000840	056368
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1522	1523	1562	1563	1563
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-SEP-90	05-SEP-90	09-AUG-90	25-AUG-91	30-NOV-90
NORTH COORDINATE:	479411.87	479406.88	480843.21	480839.67	480839.67
EAST COORDINATE:	1379913.73	1379945.37	1381684.8	1381720.59	1381720.59
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
HERBICIDES															
2,4,5-TP (SILVEX)	2.00 UG/L		U	2.00 UG/L		U	2.00 UG/L		UJ	17.00 UG/L		U	1.70 UG/L		U
2,4-D	13.00 UG/L		U	12.00 UG/L		U	12.00 UG/L		UJ	120.00 UG/L		U	12.00 UG/L		U
INORGANICS															
ARSENIC							0.12 MG/L		U	0.05 MG/L		U	0.26 MG/L		U
BARIUM							1.62 MG/L		-	6.40 MG/L		U	1.04 MG/L		U
CADMIUM							0.01 MG/L		-	0.00 MG/L		U	0.01 MG/L		-
CHROMIUM							0.09 MG/L		-	0.01 MG/L		U	0.08 MG/L		-
LEAD							0.04 MG/L		UJ	0.04 MG/L		U	0.20 MG/L		U
MERCURY							0.00 MG/L		U	0.00 MG/L		UJ	0.00 MG/L		U
SELENIUM							0.13 MG/L		-	0.07 MG/L		U	0.40 MG/L		U
SILVER							0.09 MG/L		-	0.00 MG/L		U	0.14 MG/L		-
No sort code listed.															
3-METHYLPHENOL	10.00 UG/L		U	10.00 UG/L		U	16.00 UG/L		UJ						
PESTICIDES															
ALPHA-CHLORDANE													0.50 UG/L		U
CHLORDANE	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		UJ	0.70 UG/L		U	1.00 UG/L		U
ENDRIN	0.10 UG/L		U	0.10 UG/L		U	0.10 UG/L		UJ	0.30 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ	0.20 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE													0.50 UG/L		U
HEPTACHLOR	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ	0.15 UG/L		U	0.05 UG/L		U
HEPTACHLOR EPOXIDE	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ	4.20 UG/L		U	0.05 UG/L		U
METHOXYCHLOR	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		UJ	8.80 UG/L		U	0.50 UG/L		U
TOXAPHENE	1.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		UJ	12.00 UG/L		U	1.00 UG/L		U

000285

5204

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056337	056130	056102	056104	056106
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1563	1565	1565	1565	1565
DEPTH:	1-1.5	-	2-2.5	3-3.5	4-4.5
DATE COLLECTED:	29-NOV-90	14-AUG-90	14-AUG-90	14-AUG-90	14-AUG-90
NORTH COORDINATE:	480839.67	480814.02	480814.02	480814.02	480814.02
EAST COORDINATE:	1381720.59	1381680.72	1381680.72	1381680.72	1381680.72
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	NONE-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV				12.00 %		NV	11.00 %		NV	12.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				2.00 UG/L		UR									
2,4-D				13.00 UG/L		UR									
INORGANICS															
ARSENIC				0.25 MG/L		U									
BARIUM				1.57 MG/L		-									
CADMIUM				0.01 MG/L		-									
CHROMIUM				0.12 MG/L		-									
LEAD				0.20 MG/L		UJ									
MERCURY				0.00 MG/L		U									
SELENIUM				0.40 MG/L		U									
SILVER				0.10 MG/L		-									
No sort code listed.															
3-METHYLPHENOL				10.00 UG/L		UR									
PESTICIDES															
CHLORDANE				0.50 UG/L		UR									
ENDRIN				0.10 UG/L		UR									
GAMMA-BHC (LINDANE)				0.05 UG/L		UR									
HEPTACHLOR				0.05 UG/L		UR									
HEPTACHLOR EPOXIDE				0.05 UG/L		UR									
METHOXYCHLOR				0.50 UG/L		UR									

000286

SAMPLE NUMBER:	056337			056130			056102			056104			056106		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE				1.00 UG/L		UR									
SEMIVOLATILES															
1,4-DICHLOROBENZENE				10.00 UG/L		UR									
2,4,5-TRICHLOROPHENOL				52.00 UG/L		UR									
2,4,6-TRICHLOROPHENOL				10.00 UG/L		UR									
2,4-DINITROTOLUENE				10.00 UG/L		UR									
2-METHYLPHENOL				10.00 UG/L		UR									
4-METHYLPHENOL				10.00 UG/L		UR									
HEXACHLOROBENZENE				10.00 UG/L		UR									
HEXACHLOROBUTADIENE				10.00 UG/L		UR									
HEXACHLOROETHANE				10.00 UG/L		UR									
NITROBENZENE				10.00 UG/L		UR									
PENTACHLOROPHENOL				52.00 UG/L		UR									
PYRIDINE				10.00 UG/L		UR									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056109	056119	056129	056327	056287
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1565	1565	1565	1566	1567
DEPTH:	5.5-6	10.5-11	15.5-16	-	-
DATE COLLECTED:	14-AUG-90	14-AUG-90	14-AUG-90	28-AUG-90	24-AUG-90
NORTH COORDINATE:	480814.02	480814.02	480814.02	480809.09	480811.85
EAST COORDINATE:	1381680.72	1381680.72	1381680.72	1381719.24	1381737.24
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	10.00 %		NV	11.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										2.00 UG/L		UJ	2.00 UG/L		UNV
2,4-D										12.00 UG/L		UJ	12.00 UG/L		UNV
INORGANICS															
ARSENIC										0.25 MG/L		U	0.25 MG/L		U
BARIUM										0.90 MG/L		-	1.08 MG/L		-
CADMIUM										0.01 MG/L		U	0.01 MG/L		U
CHROMIUM										0.13 MG/L		-	0.12 MG/L		-
LEAD										0.20 MG/L		J	0.20 MG/L		UJ
MERCURY										0.00 MG/L		U	0.00 MG/L		UJ
SELENIUM										0.40 MG/L		U	0.40 MG/L		U
SILVER										0.09 MG/L		-	0.09 MG/L		-
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		UJ			
PESTICIDES															
4,4'-DDD										0.10 UG/L		UJ			
4,4'-DDE										0.10 UG/L		UJ			
4,4'-DDT										0.10 UG/L		UJ			
ALDRIN										0.05 UG/L		UJ			
ALPHA-BHC										0.05 UG/L		UJ			
ALPHA-CHLORDANE										0.50 UG/L		UJ			

000288

SAMPLE NUMBER:	056109			056119			056129			056327			056287		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
AROCLOR-1016										0.50 UG/L		UJ			
AROCLOR-1221										0.50 UG/L		UJ			
AROCLOR-1232										0.50 UG/L		UJ			
AROCLOR-1242										0.50 UG/L		UJ			
AROCLOR-1248										0.50 UG/L		UJ			
AROCLOR-1254										1.00 UG/L		UJ			
AROCLOR-1260										1.00 UG/L		UJ			
BETA-BHC										0.05 UG/L		UJ			
CHLORDANE										0.00 UG/L		UJ	0.00 UG/L		UJ
DELTA-BHC										0.05 UG/L		UJ			
DIELDRIN										0.10 UG/L		UJ			
ENDOSULFAN II										0.10 UG/L		UJ			
ENDOSULFAN SULFATE										0.10 UG/L		UJ			
ENDOSULFAN-I										0.05 UG/L		UJ			
ENDRIN										0.00 UG/L		UJ	0.00 UG/L		UJ
ENDRIN KETONE										0.10 UG/L		UJ			
GAMMA-BHC (LINDANE)										0.00 UG/L		UJ	0.00 UG/L		UJ
GAMMA-CHLORDANE										0.50 UG/L		UJ			
HEPTACHLOR										0.00 UG/L		UJ	0.00 UG/L		UJ
HEPTACHLOR EPOXIDE										0.00 UG/L		UJ	0.00 UG/L		UJ
METHOXYCHLOR										0.00 UG/L		UJ	0.00 UG/L		UJ
TOXAPHENE										0.00 UG/L		UJ	0.00 UG/L		UJ
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		UJ	20.00 UG/L		UJ
2,4,5-TRICHLOROPHENOL										100.00 UG/L		UJ	100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL										20.00 UG/L		UJ	20.00 UG/L		UJ
2,4-DINITROTOLUENE										20.00 UG/L		UJ	20.00 UG/L		UJ
2-METHYLPHENOL										20.00 UG/L		UJ			
4-METHYLPHENOL										20.00 UG/L		UJ			
HEXACHLOROBENZENE										20.00 UG/L		UJ	20.00 UG/L		UJ
HEXACHLOROBUTADIENE										20.00 UG/L		UJ	20.00 UG/L		UJ
HEXACHLOROETHANE										20.00 UG/L		UJ	20.00 UG/L		UJ
NITROBENZENE										20.00 UG/L		UJ	20.00 UG/L		UJ
PENTACHLOROPHENOL										100.00 UG/L		UJ	100.00 UG/L		UJ
PYRIDINE										20.00 UG/L		UJ	20.00 UG/L		UJ
TOTAL METHYLPHENOL													20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U	0.01 UG/L		U
1,2-DICHLOROETHANE										5.00 UG/L		U	0.01 UG/L		U
2-BUTANONE										5.00 UG/L		U	0.00 UG/L		U
BENZENE										5.00 UG/L		U	0.01 UG/L		U

000289

5704

SAMPLE NUMBER:	056109			056119			056129			056327			056287		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:				-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CARBON TETRACHLORIDE										5.00 UG/L		U	0.01 UG/L		U
CHLOROBENZENE										5.00 UG/L		U	0.01 UG/L		U
CHLOROFORM										5.00 UG/L		U	0.01 UG/L		U
TETRACHLOROETHENE										5.00 UG/L		U	0.01 UG/L		U
TRICHLOROETHENE										5.00 UG/L		U	0.01 UG/L		U
VINYL CHLORIDE										10.00 UG/L		U	0.01 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056170	056141	056143	056145	056149
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1568	1568	1568	1568	1568
DEPTH:	-	1.5-2	2.5-3	3.5-4	5.5-6
DATE COLLECTED:	15-AUG-90	15-AUG-90	15-AUG-90	15-AUG-90	15-AUG-90
NORTH COORDINATE:	480784.16	480784.16	480784.16	480784.16	480784.16
EAST COORDINATE:	1381679.81	1381679.81	1381679.81	1381679.81	1381679.81
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				13.00 %		NV	13.00 %		NV	11.00 %		NV	10.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	2.00 UG/L		UR												
2,4-D	12.00 UG/L		UR												
INORGANICS															
ARSENIC	0.25 MG/L		U												
BARIUM	1.42 MG/L		-												
CADMIUM	0.01 MG/L		U												
CHROMIUM	0.11 MG/L		-												
LEAD	0.20 MG/L		UJ												
MERCURY	0.00 MG/L		U												
SELENIUM	0.40 MG/L		U												
SILVER	0.09 MG/L		-												
No sort code listed.															
3-METHYLPHENOL	10.00 UG/L		UR												
PESTICIDES															
CHLORDANE	0.50 UG/L		UR												
ENDRIN	0.10 UG/L		UR												
GAMMA-BHC (LINDANE)	0.05 UG/L		UR												
HEPTACHLOR	0.05 UG/L		UR												
HEPTACHLOR EPOXIDE	0.05 UG/L		UR												
METHOXYCHLOR	0.50 UG/L		UR												

102931

5204

SAMPLE NUMBER:	056170			056141			056143			056145			056149		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE	1.00 UG/L		UR												
SEMIVOLATILES															
1,4-DICHLOROBENZENE	10.00 UG/L		UR												
2,4,5-TRICHLOROPHENOL	52.00 UG/L		UR												
2,4,6-TRICHLOROPHENOL	10.00 UG/L		UR												
2,4-DINITROTOLUENE	10.00 UG/L		UR												
2-METHYLPHENOL	10.00 UG/L		UR												
4-METHYLPHENOL	10.00 UG/L		UR												
HEXACHLOROBENZENE	10.00 UG/L		UR												
HEXACHLOROBUTADIENE	10.00 UG/L		UR												
HEXACHLOROETHANE	10.00 UG/L		UR												
NITROBENZENE	10.00 UG/L		UR												
PENTACHLOROPHENOL	52.00 UG/L		UR												
PYRIDINE	10.00 UG/L		UR												

002292

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056159	056169	056208	056179	056181
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT/MWL	IT	IT
WELL OR BORING NUMBER:	1568	1568	1569	1569	1569
DEPTH:	10.5-11	15.5-16	-	1.5-2	2.5-3
DATE COLLECTED:	15-AUG-90	15-AUG-90	22-AUG-90	21-AUG-90	21-AUG-90
NORTH COORDINATE:	480784.16	480784.16	480785.94	480785.94	480785.94
EAST COORDINATE:	1381679.81	1381679.81	1381721.18	1381721.18	1381721.18
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	12.00 %		NV				24.00 %		NV	11.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)							2.00 UG/L		UJ						
2,4-D							13.00 UG/L		UJ						
INORGANICS															
ARSENIC							0.17 MG/L		UJ						
BARIUM							1.43 MG/L		J						
CADMIUM							0.01 MG/L		J						
CHROMIUM							0.11 MG/L		J						
LEAD							0.08 MG/L		UJ						
MERCURY							0.00 MG/L		U						
SELENIUM							0.16 MG/L		UJ						
SILVER							0.10 MG/L		J						
No sort code listed.															
3-METHYLPHENOL							11.00 UG/L		UJ						
PESTICIDES															
4,4'-DDD							110.00 UG/L		U						
4,4'-DDE							110.00 UG/L		U						
4,4'-DDT							110.00 UG/L		U						
ALDRIN							54.00 UG/L		U						
ALPHA-BHC							54.00 UG/L		U						
ALPHA-CHLORDANE							540.00 UG/L		U						

000293

5704

SAMPLE NUMBER:	056159			056169			056208			056179			056181		
LAB:							IT/MWL								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
AROCLOR-1016							540.00 UG/L		U						
AROCLOR-1221							540.00 UG/L		U						
AROCLOR-1232							540.00 UG/L		U						
AROCLOR-1242							540.00 UG/L		U						
AROCLOR-1248							540.00 UG/L		U						
AROCLOR-1254							1100.00 UG/L		U						
AROCLOR-1260							1100.00 UG/L		U						
BETA-BHC							54.00 UG/L		U						
CHLORDANE							0.50 UG/L		UJ						
DELTA-BHC							54.00 UG/L		U						
DIELDRIN							110.00 UG/L		U						
ENDOSULFAN II							110.00 UG/L		U						
ENDOSULFAN SULFATE							110.00 UG/L		U						
ENDOSULFAN-I							54.00 UG/L		U						
ENDRIN							0.10 UG/L		UJ						
ENDRIN KETONE							110.00 UG/L		U						
GAMMA-BHC (LINDANE)							0.05 UG/L		UJ						
GAMMA-CHLORDANE							540.00 UG/L		U						
HEPTACHLOR							0.05 UG/L		UJ						
HEPTACHLOR EPOXIDE							0.05 UG/L		UJ						
METHOXYCHLOR							0.50 UG/L		UJ						
TOXAPHENE							1.00 UG/L		UJ						
SEMIVOLATILES															
1,4-DICHLOROBENZENE							11.00 UG/L		UJ						
2,4,5-TRICHLOROPHENOL							53.00 UG/L		UJ						
2,4,6-TRICHLOROPHENOL							11.00 UG/L		UJ						
2,4-DINITROTOLUENE							11.00 UG/L		UJ						
2-METHYLPHENOL							11.00 UG/L		UJ						
4-METHYLPHENOL							11.00 UG/L		UJ						
HEXACHLOROBENZENE							11.00 UG/L		UJ						
HEXACHLOROBUTADIENE							11.00 UG/L		UJ						
HEXACHLOROETHANE							11.00 UG/L		UJ						
NITROBENZENE							11.00 UG/L		UJ						
PENTACHLOROPHENOL							53.00 UG/L		UJ						
PYRIDINE							11.00 UG/L		UJ						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056183	056187	056197	056207	056248
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1569	1569	1569	1569	1570
DEPTH:	3.5-4	5.5-6	10.5-11	15.5-16	-
DATE COLLECTED:	21-AUG-90	21-AUG-90	22-AUG-90	22-AUG-90	23-AUG-90
NORTH COORDINATE:	480785.94	480785.94	480785.94	480785.94	480782.58
EAST COORDINATE:	1381721.18	1381721.18	1381721.18	1381721.18	1381731.98
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	15.00 %		NV	13.00 %		NV	11.00 %		NV			
HERBICIDES															
2,4,5-TP (SILVEX)													2.00 UG/L		UJ
2,4-D													13.00 UG/L		UJ
No sort code listed.															
3-METHYLPHENOL													10.00 UG/L		UJ
PESTICIDES															
CHLORDANE													0.00 UG/L		UJ
ENDRIN													0.00 UG/L		UJ
GAMMA-BHC (LINDANE)													0.00 UG/L		UJ
HEPTACHLOR													0.00 UG/L		UJ
HEPTACHLOR EPOXIDE													0.00 UG/L		UJ
METHOXYCHLOR													0.00 UG/L		UJ
TOXAPHENE													0.00 UG/L		UJ
SEMIVOLATILES															
1,4-DICHLOROBENZENE													10.00 UG/L		UJ
2,4,5-TRICHLOROPHENOL													52.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL													10.00 UG/L		UJ
2,4-DINITROTOLUENE													10.00 UG/L		UJ
2-METHYLPHENOL													10.00 UG/L		UJ
4-METHYLPHENOL													10.00 UG/L		UJ
HEXACHLOROBENZENE													10.00 UG/L		UJ

000295

5704

SAMPLE NUMBER:	056183			056187			056197			056207			056248		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
HEXACHLOROBUTADIENE													10.00 UG/L		UJ
HEXACHLOROETHANE													10.00 UG/L		UJ
NITROBENZENE													10.00 UG/L		UJ
PENTACHLOROPHENOL													52.00 UG/L		UJ
PYRIDINE													10.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE													6.00 UG/L		U
1,2-DICHLOROETHANE													6.00 UG/L		U
2-BUTANONE													10.00 UG/L		U
BENZENE													6.00 UG/L		U
CARBON TETRACHLORIDE													6.00 UG/L		U
CHLOROBENZENE													6.00 UG/L		U
CHLOROFORM													6.00 UG/L		U
TETRACHLOROETHENE													6.00 UG/L		U
TRICHLOROETHENE													6.00 UG/L		U
VINYL CHLORIDE													11.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056219	056221	056223	056227	056237
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1570	1570	1570	1570	1570
DEPTH:	1.5-2	2.5-3	3.5-4	5.5-6	10.5-11
DATE COLLECTED:	23-AUG-90	23-AUG-90	23-AUG-90	23-AUG-90	23-AUG-90
NORTH COORDINATE:	480782.58	480782.58	480782.58	480782.58	480782.58
EAST COORDINATE:	1381731.98	1381731.98	1381731.98	1381731.98	1381731.98
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	14.00 %		NV	11.00 %		NV	9.00 % MOISTURE		NV	12.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056247	056878	056881	056885	056905
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1570	1571	1571	1571	1573
DEPTH:	15.5-16	.5-1	2-2.5	4-4.5	.5-1
DATE COLLECTED:	23-AUG-90	18-OCT-90	23-OCT-90	23-OCT-90	31-OCT-90
NORTH COORDINATE:	480782.58	481677.51	481677.51	481677.51	481591.63
EAST COORDINATE:	1381731.98	1380995.47	1380995.47	1380995.47	1380986.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	20.00 %		NV	13.00 %		NV	10.00 %		NV	19.00 %		NV

000298

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056908			056971			056974			056977			056887		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1573			1574			1574			1574			1575		
DEPTH:	2-2.5			.5-1			2-2.5			3.5-4			.5-1		
DATE COLLECTED:	01-NOV-90			04-NOV-90			04-NOV-90			04-NOV-90			23-OCT-90		
NORTH COORDINATE:	481591.63			481665.79			481665.79			481665.79			481611.48		
EAST COORDINATE:	1380986.56			1381163.33			1381163.33			1381163.33			1381201.6		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			DL-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV	12.00 %		NV	18.00 %		NV	20.00 %		NV	20.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056890			056894			056982			056985			056989		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1575			1575			1576			1576			1576		
DEPTH:	2-2.5			4-4.5			.5-1			2-2.5			4-4.5		
DATE COLLECTED:	24-OCT-90			24-OCT-90			04-NOV-90			04-NOV-90			04-NOV-90		
NORTH COORDINATE:	481611.48			481611.48			481558.31			481558.31			481558.31		
EAST COORDINATE:	1381201.6			1381201.6			1381149.98			1381149.98			1381149.98		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	13.00 %		NV	11.00 %		NV	19.00 %		NV	12.00 %		NV

000200

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056932			056935			056939			056941			056944		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1577			1577			1577			1578			1578		
DEPTH:	.5-1			2-2.5			4-4.5			.5-1			2-2.5		
DATE COLLECTED:	06-NOV-90			06-NOV-90			06-NOV-90			06-NOV-90			06-NOV-90		
NORTH COORDINATE:	481607.16			481607.16			481607.16			481676.05			481676.05		
EAST COORDINATE:	1381052.08			1381052.08			1381052.08			1381044.93			1381044.93		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	DL-NA			NONE-NA			NONE-NA			DL-NA			DL-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	20.00 %		NV	25.00 %		NV	13.00 %		NV	21.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056948	056992	056960	056963	056967
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1578	1580	1580	1580	1580
DEPTH:	4-4.5	-	.5-1	2-2.5	4-4.5
DATE COLLECTED:	06-NOV-90	07-NOV-90	07-NOV-90	07-NOV-90	07-NOV-90
NORTH COORDINATE:	481676.05	481676	481676	481676	481676
EAST COORDINATE:	1381044.93	1381101.87	1381101.87	1381101.87	1381101.87
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV				13.00 %		NV	1.00 % MOISTURE		NV	19.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U									
2,4-D				12.00 UG/L		U									
INORGANICS															
ARSENIC				0.25 MG/L		U									
BARIUM				0.69 MG/L		-									
CADMIUM				0.01 MG/L		-									
CHROMIUM				0.16 MG/L		-									
LEAD				0.20 MG/L		U									
MERCURY				0.00 MG/L		U									
SELENIUM				0.40 MG/L		U									
SILVER				0.16 MG/L		-									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U									
CHLORDANE				1.00 UG/L		U									
ENDRIN				0.10 UG/L		U									
GAMMA-BHC (LINDANE)				0.05 UG/L		U									
GAMMA-CHLORDANE				0.50 UG/L		U									
HEPTACHLOR				0.05 UG/L		U									
HEPTACHLOR EPOXIDE				0.05 UG/L		U									
METHOXYCHLOR				0.50 UG/L		U									
TOXAPHENE				1.00 UG/L		U									

VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U									

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

DRAFT
Page 54

SAMPLE NUMBER:	056948			056992			056960			056963			056967		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHANE				5.00 UG/L		U									
2-BUTANONE				10.00 UG/L		U									
BENZENE				5.00 UG/L		U									
CARBON TETRACHLORIDE				5.00 UG/L		U									
CHLOROBENZENE				5.00 UG/L		U									
CHLOROFORM				5.00 UG/L		U									
TETRACHLOROETHENE				6.00 UG/L		-									
TRICHLOROETHENE				5.00 UG/L		U									
VINYL CHLORIDE				10.00 UG/L		U									

000303

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	000830	056503	056484	056487	056491
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT-KNOX	IT	IT	IT
WELL OR BORING NUMBER:	1581	1581	1581	1581	1581
DEPTH:	-	-	.5-1	2-2.5	4-4.5
DATE COLLECTED:	25-AUG-91	03-OCT-90	27-SEP-90	02-OCT-90	02-OCT-90
NORTH COORDINATE:	481109.84	481109.84	481109.84	481109.84	481109.84
EAST COORDINATE:	1380971.81	1380971.81	1380971.81	1380971.81	1380971.81
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							13.00 %		NV	14.00 %		NV	12.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	17.00 UG/L		U	1.80 UG/L		U									
2,4-D	120.00 UG/L		U	12.00 UG/L		U									
INORGANICS															
ARSENIC	0.05 MG/L		U	0.10 MG/L		U									
BARIUM	1.26 MG/L		U	0.65 MG/L		-									
CADMIUM	0.00 MG/L		U	0.01 MG/L		-									
CHROMIUM	0.00 MG/L		U	0.02 MG/L		U									
LEAD	0.04 MG/L		U	0.08 MG/L		U									
MERCURY	0.00 MG/L		UJ	0.00 MG/L		U									
SELENIUM	0.07 MG/L		U	0.08 MG/L		U									
SILVER	0.00 MG/L		U	0.02 MG/L		U									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U									
CHLORDANE	0.70 UG/L		U	1.00 UG/L		U									
ENDRIN	0.30 UG/L		U	0.10 UG/L		U									
GAMMA-BHC (LINDANE)	0.20 UG/L		U	0.05 UG/L		U									
GAMMA-CHLORDANE				0.50 UG/L		U									
HEPTACHLOR	0.15 UG/L		U	0.05 UG/L		U									
HEPTACHLOR EPOXIDE	4.20 UG/L		U	0.05 UG/L		U									
METHOXYCHLOR	8.80 UG/L		U	0.50 UG/L		U									
TOXAPHENE	12.00 UG/L		U	1.00 UG/L		U									

SEMIVOLATILES

1,4-DICHLOROBENZENE 40.00 UG/L U

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

DRAFT
Page 56

SAMPLE NUMBER:	000830			056503			056484			056487			056491		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL	40.00 UG/L		U												
2,4,6-TRICHLOROPHENOL	40.00 UG/L		U												
2,4-DINITROTOLUENE	40.00 UG/L		U												
2-METHYLPHENOL	40.00 UG/L		U												
4-METHYLPHENOL	40.00 UG/L		U												
HEXACHLOROBENZENE	40.00 UG/L		U												
HEXACHLOROBUTADIENE	40.00 UG/L		U												
HEXACHLOROETHANE	40.00 UG/L		U												
NITROBENZENE	40.00 UG/L		U												
PENTACHLOROPHENOL	200.00 UG/L		U												
PYRIDINE	400.00 UG/L		U												
VOLATILES															
1,1-DICHLOROETHENE	50.00 UG/L		U	5.00 UG/L		UJ									
1,2-DICHLOROETHANE	50.00 UG/L		U	5.00 UG/L		UJ									
2-BUTANONE	100.00 UG/L		U	10.00 UG/L		U									
BENZENE	20.00 UG/L		U	5.00 UG/L		UJ									
CARBON TETRACHLORIDE	50.00 UG/L		U	5.00 UG/L		UJ									
CHLOROBENZENE	50.00 UG/L		U	5.00 UG/L		UJ									
CHLOROFORM	50.00 UG/L		U	5.00 UG/L		UJ									
TETRACHLOROETHENE	50.00 UG/L		U	5.00 UG/L		UJ									
TRICHLOROETHENE	50.00 UG/L		U	5.00 UG/L		UJ									
VINYL CHLORIDE	100.00 UG/L		U	10.00 UG/L		UJ									

000305

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056502	056525	056506	056509	056513
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT-KNOX	IT	IT	IT
WELL OR BORING NUMBER:	1581	1582	1582	1582	1582
DEPTH:	9.5-10	-	.5-1	2-2.5	4-4.5
DATE COLLECTED:	02-OCT-90	03-OCT-90	03-OCT-90	03-OCT-90	03-OCT-90
NORTH COORDINATE:	481109.84	481107.89	481107.89	481107.89	481107.89
EAST COORDINATE:	1380971.81	1381010.09	1381010.09	1381010.09	1381010.09
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV				7.00 % MOISTURE		NV	4.00 % MOISTURE		NV	11.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				1.90 UG/L		UJ									
2,4-D				13.00 UG/L		UJ									
INORGANICS															
ARSENIC				0.25 MG/L		U									
BARIUM				0.53 MG/L		-									
CADMIUM				0.01 MG/L		-									
CHROMIUM				0.10 MG/L		-									
LEAD				0.20 MG/L		UJ									
MERCURY				0.00 MG/L		UJ									
SELENIUM				0.18 MG/L		-									
SILVER				0.07 MG/L		-									
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		UJ									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		UJ									
CHLORDANE				1.00 UG/L		UJ									
ENDRIN				0.10 UG/L		UJ									
GAMMA-BHC (LINDANE)				0.05 UG/L		UJ									
GAMMA-CHLORDANE				0.50 UG/L		UJ									
HEPTACHLOR				0.05 UG/L		UJ									

000306

SAMPLE NUMBER:	056502			056525			056506			056509			056513		
LAB:				IT-KNOX											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				0.05 UG/L		UJ									
METHOXYCHLOR				0.50 UG/L		UJ									
TOXAPHENE				1.00 UG/L		UJ									
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		UJ									
2,4,5-TRICHLOROPHENOL				100.00 UG/L		UJ									
2,4,6-TRICHLOROPHENOL				20.00 UG/L		UJ									
2,4-DINITROTOLUENE				20.00 UG/L		UJ									
2-METHYLPHENOL				20.00 UG/L		UJ									
4-METHYLPHENOL				20.00 UG/L		UJ									
HEXACHLOROBENZENE				20.00 UG/L		UJ									
HEXACHLOROBUTADIENE				20.00 UG/L		UJ									
HEXACHLOROETHANE				20.00 UG/L		UJ									
NITROBENZENE				20.00 UG/L		UJ									
PENTACHLOROPHENOL				100.00 UG/L		UJ									
PYRIDINE				20.00 UG/L		UJ									

000307

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056524	000831	056570	056551	056554
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT-KNOX	IT	IT
WELL OR BORING NUMBER:	1582	1583	1583	1583	1583
DEPTH:	9.5-10	-	-	.5-1	2-2.5
DATE COLLECTED:	03-OCT-90	25-AUG-91	02-OCT-90	27-SEP-90	02-OCT-90
NORTH COORDINATE:	481107.89	481108.71	481108.71	481108.71	481108.71
EAST COORDINATE:	1381010.09	1381049.62	1381049.62	1381049.62	1381049.62
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV							8.00 % MOISTURE		NV	5.00 % MOISTURE		NV
HERBICIDES															
2,4,5-TP (SILVEX)				17.00 UG/L		U	1.80 UG/L		U						
2,4-D				120.00 UG/L		U	13.00 UG/L		U						
INORGANICS															
ARSENIC				0.05 MG/L		U	0.15 MG/L		U						
BARIUM				0.62 MG/L		U	0.70 MG/L		-						
CADMIUM				0.00 MG/L		U	0.01 MG/L		-						
CHROMIUM				0.00 MG/L		U	0.02 MG/L		U						
LEAD				0.04 MG/L		U	0.08 MG/L		U						
MERCURY				0.00 MG/L		UJ	0.00 MG/L		U						
SELENIUM				0.07 MG/L		U	0.15 MG/L		U						
SILVER				0.00 MG/L		U	0.02 MG/L		U						
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		U						
CHLORDANE				0.70 UG/L		U	1.00 UG/L		U						
ENDRIN				0.30 UG/L		U	0.10 UG/L		U						
GAMMA-BHC (LINDANE)				0.20 UG/L		U	0.05 UG/L		U						
GAMMA-CHLORDANE							0.50 UG/L		U						
HEPTACHLOR				0.15 UG/L		U	0.05 UG/L		U						
HEPTACHLOR EPOXIDE				4.20 UG/L		U	0.05 UG/L		U						
METHOXYCHLOR				8.80 UG/L		U	0.50 UG/L		U						
TOXAPHENE				12.00 UG/L		U	1.00 UG/L		U						

000308

SEMIVOLATILES

1,4-DICHLOROBENZENE 40.00 UG/L U

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056524			000831			056570			056551			056554		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL				40.00 UG/L		U									
2,4,6-TRICHLOROPHENOL				40.00 UG/L		U									
2,4-DINITROTOLUENE				40.00 UG/L		U									
2-METHYLPHENOL				40.00 UG/L		U									
4-METHYLPHENOL				40.00 UG/L		U									
HEXACHLOROBENZENE				40.00 UG/L		U									
HEXACHLOROBUTADIENE				40.00 UG/L		U									
HEXACHLOROETHANE				40.00 UG/L		U									
NITROBENZENE				40.00 UG/L		U									
PENTACHLOROPHENOL				200.00 UG/L		U									
PYRIDINE				400.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE				50.00 UG/L		U	5.00 UG/L		UJ						
1,2-DICHLOROETHANE				50.00 UG/L		U	5.00 UG/L		UJ						
2-BUTANONE				100.00 UG/L		U	10.00 UG/L		UJ						
BENZENE				50.00 UG/L		U	5.00 UG/L		UJ						
CARBON TETRACHLORIDE				50.00 UG/L		U	5.00 UG/L		UJ						
CHLOROBENZENE				50.00 UG/L		U	5.00 UG/L		UJ						
CHLOROFORM				50.00 UG/L		U	5.00 UG/L		UJ						
TETRACHLOROETHENE				50.00 UG/L		U	5.00 UG/L		UJ						
TRICHLOROETHENE				50.00 UG/L		U	5.00 UG/L		UJ						
VINYL CHLORIDE				100.00 UG/L		U	10.00 UG/L		UJ						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056558	056569	056592	056573	056576
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1583	1583	1584	1584	1584
DEPTH:	4-4.5	9.5-10	-	.5-1	2-2.5
DATE COLLECTED:	02-OCT-90	02-OCT-90	25-SEP-90	24-SEP-90	24-SEP-90
NORTH COORDINATE:	481108.71	481108.71	481106.15	481106.15	481106.15
EAST COORDINATE:	1381049.62	1381049.62	1381080.47	1381080.47	1381080.47
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	NONE-NA	NONE-NA	DL-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	6.00 % MOISTURE		NV	13.00 %		NV				22.00 %		NV	8.00 % MOISTURE		NV
HERBICIDES															
2,4,5-TP (SILVEX)							1.80 UG/L		UJ						
2,4-D							12.00 UG/L		UJ						
INORGANICS															
ARSENIC							0.25 MG/L		UJ						
BARIUM							0.96 MG/L		J						
CADMIUM							0.01 MG/L		J						
CHROMIUM							0.12 MG/L		J						
LEAD							0.20 MG/L		UJ						
MERCURY							0.00 MG/L		U						
SELENIUM							0.14 MG/L		U						
SILVER							0.09 MG/L		J						
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		UJ						
PESTICIDES															
4,4'-DDD							0.10 UG/L		UJ						
4,4'-DDE							0.10 UG/L		UJ						
4,4'-DDT							0.10 UG/L		UJ						
ALDRIN							0.05 UG/L		UJ						
ALPHA-BHC							0.05 UG/L		UJ						
ALPHA-CHLORDANE							0.50 UG/L		UJ						

000310

SAMPLE NUMBER:	056558			056569			056592			056573			056576		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
AROCLOR-1016							0.50 UG/L		UJ						
AROCLOR-1221							0.50 UG/L		UJ						
AROCLOR-1232							0.50 UG/L		UJ						
AROCLOR-1242							0.50 UG/L		UJ						
AROCLOR-1248							0.50 UG/L		UJ						
AROCLOR-1254							1.00 UG/L		UJ						
AROCLOR-1260							1.00 UG/L		UJ						
BETA-BHC							0.05 UG/L		UJ						
CHLORDANE							1.00 UG/L		UJ						
DELTA-BHC							0.05 UG/L		UJ						
DIELDRIN							0.10 UG/L		UJ						
ENDOSULFAN II							0.10 UG/L		UJ						
ENDOSULFAN SULFATE							0.10 UG/L		UJ						
ENDOSULFAN-I							0.05 UG/L		UJ						
ENDRIN							0.10 UG/L		UJ						
ENDRIN KETONE							0.10 UG/L		UJ						
GAMMA-BHC (LINDANE)							0.05 UG/L		UJ						
GAMMA-CHLORDANE							0.50 UG/L		UJ						
HEPTACHLOR							0.05 UG/L		UJ						
HEPTACHLOR EPOXIDE							0.05 UG/L		UJ						
METHOXYCHLOR							0.50 UG/L		UJ						
TOXAPHENE							1.00 UG/L		UJ						
SEMIVOLATILES															
1,4-DICHLOROBENZENE							20.00 UG/L		UJ						
2,4,5-TRICHLOROPHENOL							100.00 UG/L		UJ						
2,4,6-TRICHLOROPHENOL							20.00 UG/L		UJ						
2,4-DINITROTOLUENE							20.00 UG/L		UJ						
2-METHYLPHENOL							20.00 UG/L		UJ						
4-METHYLPHENOL							20.00 UG/L		UJ						
HEXACHLOROBENZENE							20.00 UG/L		UJ						
HEXACHLOROBUTADIENE							20.00 UG/L		UJ						
HEXACHLOROETHANE							20.00 UG/L		UJ						
NITROBENZENE							20.00 UG/L		UJ						
PENTACHLOROPHENOL							100.00 UG/L		UJ						
PYRIDINE							20.00 UG/L		UJ						
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		UJ						
1,2-DICHLOROETHANE							5.00 UG/L		UJ						
2-BUTANONE							10.00 UG/L		UJ						
BENZENE							5.00 UG/L		UJ						
CARBON TETRACHLORIDE							5.00 UG/L		UJ						

000311

5204

SAMPLE NUMBER:	056558			056569			056592			056573			056576		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROBENZENE							5.00 UG/L		UJ						
CHLOROFORM							5.00 UG/L		UJ						
TETRACHLOROETHENE							5.00 UG/L		UJ						
TRICHLOROETHENE							5.00 UG/L		UJ						
VINYL CHLORIDE							10.00 UG/L		UJ						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056580	056614	056595	056598	056602
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1584	1585	1585	1585	1585
DEPTH:	4-4.5	-	.5-1	2-2.5	4-4.5
DATE COLLECTED:	24-SEP-90	26-SEP-90	25-SEP-90	25-SEP-90	26-SEP-90
NORTH COORDINATE:	481106.15	481104.43	481104.43	481104.43	481104.43
EAST COORDINATE:	1381080.47	1381113.55	1381113.55	1381113.55	1381113.55
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	R-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV				16.00 %		NV	13.00 %		NV	11.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				1.70 UG/L		U									
2,4-D				12.30 UG/L		U									
INORGANICS															
ARSENIC				0.25 MG/L		U									
BARIUM				0.76 MG/L		-									
CADMIUM				0.02 MG/L		-									
CHROMIUM				0.10 MG/L		-									
LEAD				0.20 MG/L		U									
MERCURY				0.00 MG/L		U									
SELENIUM				0.40 MG/L		U									
SILVER				0.06 MG/L		-									
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		UJ									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		UJ									
CHLORDANE				1.00 UG/L		UJ									
ENDRIN				0.10 UG/L		UJ									
GAMMA-BHC (LINDANE)				0.05 UG/L		UJ									
GAMMA-CHLORDANE				0.50 UG/L		UJ									
HEPTACHLOR				0.05 UG/L		UJ									

000313

6704

SAMPLE NUMBER:	056580			056614			056595			056598			056602		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				0.05 UG/L		UJ									
METHOXYCHLOR				0.50 UG/L		UJ									
TOXAPHENE				1.00 UG/L		UJ									
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		UJ									
2,4,5-TRICHLOROPHENOL				100.00 UG/L		UJ									
2,4,6-TRICHLOROPHENOL				20.00 UG/L		UJ									
2,4-DINITROTOLUENE				20.00 UG/L		UJ									
2-METHYLPHENOL				20.00 UG/L		UJ									
4-METHYLPHENOL				20.00 UG/L		UJ									
HEXACHLOROBENZENE				20.00 UG/L		UJ									
HEXACHLOROBUTADIENE				20.00 UG/L		UJ									
HEXACHLOROETHANE				20.00 UG/L		UJ									
NITROBENZENE				20.00 UG/L		UJ									
PENTACHLOROPHENOL				100.00 UG/L		UJ									
PYRIDINE				20.00 UG/L		UJ									
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		UJ									
1,2-DICHLOROETHANE				5.00 UG/L		UJ									
2-BUTANONE				10.00 UG/L		UJ									
BENZENE				5.00 UG/L		UJ									
CARBON TETRACHLORIDE				5.00 UG/L		UJ									
CHLOROBENZENE				5.00 UG/L		UJ									
CHLOROFORM				5.00 UG/L		UJ									
TETRACHLOROETHENE				5.00 UG/L		UJ									
TRICHLOROETHENE				5.00 UG/L		UJ									
VINYL CHLORIDE				10.00 UG/L		UJ									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056613	056636	056617	056620	056624
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1585	1586	1586	1586	1586
DEPTH:	9.5-10	-	.5-1	2-2.5	4-4.5
DATE COLLECTED:	26-SEP-90	26-SEP-90	25-SEP-90	25-SEP-90	26-SEP-90
NORTH COORDINATE:	481104.43	481105.28	481105.28	481105.28	481105.28
EAST COORDINATE:	1381113.55	1381147.01	1381147.01	1381147.01	1381147.01
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	R-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV				18.00 %		NV	12.00 %		NV	12.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				1.70 UG/L		U									
2,4-D				12.00 UG/L		U									
INORGANICS															
ARSENIC				0.25 MG/L		U									
BARIUM				0.48 MG/L		-									
CADMIUM				0.01 MG/L		-									
CHROMIUM				0.12 MG/L		-									
LEAD				0.20 MG/L		U									
MERCURY				0.00 MG/L		U									
SELENIUM				0.08 MG/L		-									
SILVER				0.09 MG/L		-									
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		UJ									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		UJ									
CHLORDANE				1.00 UG/L		UJ									
ENDRIN				0.10 UG/L		UJ									
GAMMA-BHC (LINDANE)				0.05 UG/L		UJ									
GAMMA-CHLORDANE				0.50 UG/L		UJ									
HEPTACHLOR				0.05 UG/L		UJ									

000345

5704

SAMPLE NUMBER:	056613			056636			056617			056620			056624		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				0.05 UG/L		UJ									
METHOXYCHLOR				0.50 UG/L		UJ									
TOXAPHENE				1.00 UG/L		UJ									
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		UJ									
2,4,5-TRICHLOROPHENOL				100.00 UG/L		UJ									
2,4,6-TRICHLOROPHENOL				20.00 UG/L		UJ									
2,4-DINITROTOLUENE				20.00 UG/L		UJ									
2-METHYLPHENOL				20.00 UG/L		UJ									
4-METHYLPHENOL				20.00 UG/L		UJ									
HEXACHLOROBENZENE				20.00 UG/L		UJ									
HEXACHLOROBUTADIENE				20.00 UG/L		UJ									
HEXACHLOROETHANE				20.00 UG/L		UJ									
NITROBENZENE				20.00 UG/L		UJ									
PENTACHLOROPHENOL				100.00 UG/L		UJ									
PYRIDINE				20.00 UG/L		UJ									
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		UJ									
1,2-DICHLOROETHANE				5.00 UG/L		UJ									
2-BUTANONE				6.00 UG/L		U									
BENZENE				5.00 UG/L		UJ									
CARBON TETRACHLORIDE				5.00 UG/L		UJ									
CHLOROBENZENE				5.00 UG/L		UJ									
CHLOROFORM				5.00 UG/L		UJ									
TETRACHLOROETHENE				5.00 UG/L		UJ									
TRICHLOROETHENE				5.00 UG/L		UJ									
VINYL CHLORIDE				10.00 UG/L		UJ									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056635	000836	056995	056417	056437
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1586	1587	1587	1588	1588
DEPTH:	9.5-10	-	-	0-.5	-
DATE COLLECTED:	26-SEP-90	25-AUG-91	08-NOV-90	19-SEP-90	20-SEP-90
NORTH COORDINATE:	481105.28	481062.32	481062.32	481059.76	481059.76
EAST COORDINATE:	1381147.01	1380967.39	1380967.39	1381009.31	1381009.31
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV							8.00 % MOISTURE		NV			
HERBICIDES															
2,4,5-TP (SILVEX)				17.00 UG/L		U	1.80 UG/L		U				2.00 UG/L		UJ
2,4-D				120.00 UG/L		U	12.00 UG/L		U				13.00 UG/L		UJ
INORGANICS															
ARSENIC				0.05 MG/L		U	0.25 MG/L		U				0.26 MG/L		U
BARIUM				0.91 MG/L		U	0.92 MG/L		-				1.37 MG/L		-
CADMIUM				0.00 MG/L		U	0.01 MG/L		U				0.01 MG/L		U
CHROMIUM				0.00 MG/L		U	0.11 MG/L		-				0.10 MG/L		-
LEAD				0.04 MG/L		U	0.20 MG/L		U				0.20 MG/L		U
MERCURY				0.00 MG/L		UJ	0.00 MG/L		U				0.00 MG/L		U
SELENIUM				0.07 MG/L		U	0.40 MG/L		U				0.40 MG/L		U
SILVER				0.00 MG/L		U	0.12 MG/L		-				0.09 MG/L		-
No sort code listed.															
3-METHYLPHENOL													20.00 UG/L		UJ
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		U						
CHLORDANE				0.70 UG/L		U	1.00 UG/L		U				0.50 UG/L		U
ENDRIN				0.30 UG/L		U	0.10 UG/L		U				0.10 UG/L		U
GAMMA-BHC (LINDANE)				0.20 UG/L		U	0.05 UG/L		U				0.05 UG/L		U
GAMMA-CHLORDANE							0.50 UG/L		U						
HEPTACHLOR				0.15 UG/L		U	0.05 UG/L		U				0.05 UG/L		U

000317

6704

SAMPLE NUMBER:	056635			000836			056995			056417			056437		
LAB:				IT			IT						IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				4.20 UG/L		U	0.05 UG/L		U				0.05 UG/L		U
METHOXYCHLOR				8.80 UG/L		U	0.50 UG/L		U				0.50 UG/L		U
TOXAPHENE				12.00 UG/L		U	1.00 UG/L		U				1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE				40.00 UG/L		U							20.00 UG/L		UJ
2,4,5-TRICHLOROPHENOL				40.00 UG/L		U							100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL				40.00 UG/L		U							20.00 UG/L		UJ
2,4-DINITROTOLUENE				40.00 UG/L		U							20.00 UG/L		UJ
2-METHYLPHENOL				40.00 UG/L		U							20.00 UG/L		UJ
4-METHYLPHENOL				40.00 UG/L		U							20.00 UG/L		UJ
HEXACHLOROBENZENE				40.00 UG/L		U							20.00 UG/L		UJ
HEXACHLOROBUTADIENE				40.00 UG/L		U							20.00 UG/L		UJ
HEXACHLOROETHANE				40.00 UG/L		U							20.00 UG/L		UJ
NITROBENZENE				40.00 UG/L		U							20.00 UG/L		UJ
PENTACHLOROPHENOL				200.00 UG/L		U							100.00 UG/L		UJ
PYRIDINE				400.00 UG/L		U							20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
1,2-DICHLOROETHANE				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
2-BUTANONE				100.00 UG/L		U	2.00 UG/L		J				10.00 UG/L		U
BENZENE				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
CARBON TETRACHLORIDE				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
CHLOROBENZENE				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
CHLOROFORM				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
TETRACHLOROETHENE				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
TRICHLOROETHENE				50.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
VINYL CHLORIDE				100.00 UG/L		U	10.00 UG/L		U				10.00 UG/L		U

000318

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056425	056436	056481	056462	056465
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1588	1588	1589	1589	1589
DEPTH:	4-4.5	9.5-10	-	.5-1	2-2.5
DATE COLLECTED:	20-SEP-90	20-SEP-90	23-SEP-90	21-SEP-90	21-SEP-90
NORTH COORDINATE:	481059.76	481059.76	481057.96	481057.96	481057.96
EAST COORDINATE:	1381009.31	1381009.31	1381042.67	1381042.67	1381042.67
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	8.00 % MOISTURE		NV				13.00 %		NV	10.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)							1.90 UG/L		UJ						
2,4-D							13.00 UG/L		UJ						
INORGANICS															
ARSENIC							0.25 MG/L		U						
BARIUM							0.73 MG/L		-						
CADMIUM							0.01 MG/L		-						
CHROMIUM							0.10 MG/L		-						
LEAD							0.20 MG/L		UJ						
MERCURY							0.00 MG/L		U						
SELENIUM							0.14 MG/L		-						
SILVER							0.09 MG/L		-						
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		UJ						
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		UJ						
CHLORDANE							1.00 UG/L		UNV						
ENDRIN							0.10 UG/L		UJ						
GAMMA-BHC (LINDANE)							0.05 UG/L		UJ						
GAMMA-CHLORDANE							0.50 UG/L		UJ						
HEPTACHLOR							0.05 UG/L		UJ						

000319

97044

SAMPLE NUMBER:	056425			056436			056481			056462			056465		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE							0.05 UG/L		UJ						
METHOXYCHLOR							0.50 UG/L		UJ						
TOXAPHENE							1.00 UG/L		UJ						
SEMIVOLATILES															
1,4-DICHLOROBENZENE							20.00 UG/L		UJ						
2,4,5-TRICHLOROPHENOL							100.00 UG/L		UJ						
2,4,6-TRICHLOROPHENOL							20.00 UG/L		UJ						
2,4-DINITROTOLUENE							20.00 UG/L		UJ						
2-METHYLPHENOL							20.00 UG/L		UJ						
4-METHYLPHENOL							20.00 UG/L		UJ						
HEXACHLOROBENZENE							20.00 UG/L		UJ						
HEXACHLOROBUTADIENE							20.00 UG/L		UJ						
HEXACHLOROETHANE							20.00 UG/L		UJ						
NITROBENZENE							20.00 UG/L		UJ						
PENTACHLOROPHENOL							100.00 UG/L		UJ						
PYRIDINE							20.00 UG/L		UJ						
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		UJ						
1,2-DICHLOROETHANE							5.00 UG/L		UJ						
2-BUTANONE							10.00 UG/L		UJ						
BENZENE							5.00 UG/L		UJ						
CARBON TETRACHLORIDE							5.00 UG/L		UJ						
CHLOROBENZENE							5.00 UG/L		UJ						
CHLOROFORM							5.00 UG/L		UJ						
TETRACHLOROETHENE							5.00 UG/L		UJ						
TRICHLOROETHENE							5.00 UG/L		UJ						
VINYL CHLORIDE							10.00 UG/L		UJ						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056459	056440	056443	056447	056458
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1590	1590	1590	1590	1590
DEPTH:	-	.5-1	2-2.5	4-4.5	9.5-10
DATE COLLECTED:	20-SEP-90	20-SEP-90	20-SEP-90	20-SEP-90	20-SEP-90
NORTH COORDINATE:	481056.64	481056.64	481056.64	481056.64	481056.64
EAST COORDINATE:	1381075.87	1381075.87	1381075.87	1381075.87	1381075.87
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				8.00 % MOISTURE		NV	11.00 %		NV	10.00 %		NV	7.00 % MOISTURE		NV
HERBICIDES															
2,4,5-TP (SILVEX)	2.00 UG/L		UJ												
2,4-D	12.00 UG/L		UJ												
INORGANICS															
ARSENIC	0.35 MG/L		U												
BARIUM	1.39 MG/L		-												
CADMIUM	0.01 MG/L		U												
CHROMIUM	0.10 MG/L		-												
LEAD	0.20 MG/L		U												
MERCURY	0.00 MG/L		U												
SELENIUM	0.40 MG/L		U												
SILVER	0.09 MG/L		-												
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UJ												
PESTICIDES															
CHLORDANE	0.50 UG/L		U												
ENDRIN	0.10 UG/L		U												
GAMMA-BHC (LINDANE)	0.05 UG/L		U												
HEPTACHLOR	0.05 UG/L		U												
HEPTACHLOR EPOXIDE	0.05 UG/L		U												
METHOXYCHLOR	0.50 UG/L		U												

SAMPLE NUMBER:	056459			056440			056443			056447			056458		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE	1.00 UG/L		U												
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UJ												
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UJ												
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UJ												
2,4-DINITROTOLUENE	20.00 UG/L		UJ												
2-METHYLPHENOL	20.00 UG/L		UJ												
4-METHYLPHENOL	20.00 UG/L		UJ												
HEXACHLOROBENZENE	20.00 UG/L		UJ												
HEXACHLOROBUTADIENE	20.00 UG/L		UJ												
HEXACHLOROETHANE	20.00 UG/L		UJ												
NITROBENZENE	20.00 UG/L		UJ												
PENTACHLOROPHENOL	100.00 UG/L		UJ												
PYRIDINE	20.00 UG/L		UJ												
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U												
1,2-DICHLOROETHANE	5.00 UG/L		U												
2-BUTANONE	10.00 UG/L		U												
BENZENE	5.00 UG/L		U												
CARBON TETRACHLORIDE	5.00 UG/L		U												
CHLOROBENZENE	5.00 UG/L		U												
CHLOROFORM	5.00 UG/L		U												
TETRACHLOROETHENE	5.00 UG/L		U												
TRICHLOROETHENE	5.00 UG/L		U												
VINYL CHLORIDE	10.00 UG/L		U												

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056548	056529	056680	056661	056664
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1591	1591	1592	1592	1592
DEPTH:	-	.5-1	-	.5-1	2-2.5
DATE COLLECTED:	23-SEP-90	21-SEP-90	25-SEP-90	24-SEP-90	24-SEP-90
NORTH COORDINATE:	481080.76	481080.76	481078.54	481078.54	481078.54
EAST COORDINATE:	1381111.82	1381111.82	1381139.76	1381139.76	1381139.76
QA TYPE:	DRILL CUTTINGS	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				10.00 %		NV				9.00 % MOISTURE		NV	11.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.70 UG/L		UJ				1.70 UG/L		UJ						
2,4-D	12.20 UG/L		UJ				12.00 UG/L		UJ						
INORGANICS															
ARSENIC	0.10 MG/L		U				0.08 MG/L		U						
BARIUM	0.57 MG/L		-				1.02 MG/L		J						
CADMIUM	0.01 MG/L		-				0.01 MG/L		J						
CHROMIUM	0.02 MG/L		U				0.05 MG/L		J						
LEAD	0.08 MG/L		U				0.04 MG/L		UJ						
MERCURY	0.00 MG/L		U				0.00 MG/L		U						
SELENIUM	0.08 MG/L		-				0.08 MG/L		U						
SILVER	0.02 MG/L		U				0.03 MG/L		J						
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UJ				20.00 UG/L		UJ						
PESTICIDES															
4,4'-DDD							0.10 UG/L		UJ						
4,4'-DDE							0.10 UG/L		UJ						
4,4'-DDT							0.10 UG/L		UJ						
ALDRIN							0.05 UG/L		UJ						
ALPHA-BHC							0.05 UG/L		UJ						
ALPHA-CHLORDANE	0.50 UG/L		UJ				0.50 UG/L		UJ						

SAMPLE NUMBER:	056548			056529			056680			056661			056664		
LAB:	IT						IT								
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
AROCLOR-1016							0.50 UG/L		UJ						
AROCLOR-1221							0.50 UG/L		UJ						
AROCLOR-1232							0.50 UG/L		UJ						
AROCLOR-1242							0.50 UG/L		UJ						
AROCLOR-1248							0.50 UG/L		UJ						
AROCLOR-1254							1.00 UG/L		UJ						
AROCLOR-1260							1.00 UG/L		UJ						
BETA-BHC							0.05 UG/L		UJ						
CHLORDANE	1.00 UG/L		UJ				1.00 UG/L		UJ						
DELTA-BHC							0.05 UG/L		UJ						
DIELDRIN							0.10 UG/L		UJ						
ENDOSULFAN II							0.10 UG/L		UJ						
ENDOSULFAN SULFATE							0.10 UG/L		UJ						
ENDOSULFAN-I							0.05 UG/L		UJ						
ENDRIN	0.10 UG/L		UJ				0.11 UG/L		UJ						
ENDRIN KETONE							0.10 UG/L		UJ						
GAMMA-BHC (LINDANE)	0.05 UG/L		UJ				0.08 UG/L		UJ						
GAMMA-CHLORDANE	0.50 UG/L		UJ				0.50 UG/L		UJ						
HEPTACHLOR	0.05 UG/L		UJ				0.04 UG/L		UJ						
HEPTACHLOR EPOXIDE	0.05 UG/L		UJ				0.05 UG/L		UJ						
METHOXYCHLOR	0.50 UG/L		UJ				0.59 UG/L		UJ						
TOXAPHENE	1.00 UG/L		UJ				1.20 UG/L		UJ						
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UJ				20.00 UG/L		UJ						
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UJ				100.00 UG/L		UJ						
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UJ				20.00 UG/L		UJ						
2,4-DINITROTOLUENE	20.00 UG/L		UJ				20.00 UG/L		UJ						
2-METHYLPHENOL	20.00 UG/L		UJ				20.00 UG/L		UJ						
4-METHYLPHENOL	20.00 UG/L		UJ				20.00 UG/L		UJ						
HEXACHLOROBENZENE	20.00 UG/L		UJ				20.00 UG/L		UJ						
HEXACHLOROBUTADIENE	20.00 UG/L		UJ				20.00 UG/L		UJ						
HEXACHLOROETHANE	20.00 UG/L		UJ				20.00 UG/L		UJ						
NITROBENZENE	20.00 UG/L		UJ				20.00 UG/L		UJ						
PENTACHLOROPHENOL	100.00 UG/L		UJ				100.00 UG/L		UJ						
PYRIDINE	20.00 UG/L		UJ				20.00 UG/L		UJ						
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		UJ				5.00 UG/L		UJ						
1,2-DICHLOROETHANE	5.00 UG/L		UJ				5.00 UG/L		UJ						
2-BUTANONE	3.00 UG/L		U				2.00 UG/L		U						
BENZENE	5.00 UG/L		UJ				5.00 UG/L		UJ						
CARBON TETRACHLORIDE	5.00 UG/L		UJ				5.00 UG/L		UJ						

SAMPLE NUMBER:	056548			056529			056680			056661			056664		
LAB:	IT						IT								
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROBENZENE	5.00 UG/L		UJ				5.00 UG/L		UJ						
CHLOROFORM	5.00 UG/L		UJ				5.00 UG/L		UJ						
TETRACHLOROETHENE	5.00 UG/L		UJ				5.00 UG/L		UJ						
TRICHLOROETHENE	5.00 UG/L		UJ				5.00 UG/L		UJ						
VINYL CHLORIDE	10.00 UG/L		UJ				10.00 UG/L		UJ						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056668	056702	056683	056686	056690
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1592	1593	1593	1593	1593
DEPTH:	4-4.5	-	.5-1	2-2.5	4-4.5
DATE COLLECTED:	24-SEP-90	01-NOV-90	01-NOV-90	01-NOV-90	01-NOV-90
NORTH COORDINATE:	481078.54	481005.94	481005.94	481005.94	481005.94
EAST COORDINATE:	1381139.76	1380975.47	1380975.47	1380975.47	1380975.47
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV				9.00 % MOISTURE		NV	12.00 %		NV	9.00 % MOISTURE		NV
HERBICIDES															
2,4,5-TP (SILVEX)				1.70 UG/L		U									
2,4-D				12.00 UG/L		U									
INORGANICS															
ARSENIC				0.25 MG/L		U									
BARIUM				1.21 MG/L		-									
CADMIUM				0.01 MG/L		-									
CHROMIUM				0.05 MG/L		U									
LEAD				0.20 MG/L		U									
MERCURY				0.00 MG/L		U									
SELENIUM				0.40 MG/L		U									
SILVER				0.12 MG/L		-									
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		UJ									
PESTICIDES															
ALPHA-CHLORDANE				1.00 UG/L		UJ									
CHLORDANE				2.00 UG/L		UJ									
ENDRIN				0.20 UG/L		UJ									
GAMMA-BHC (LINDANE)				0.10 UG/L		UJ									
GAMMA-CHLORDANE				1.00 UG/L		UJ									
HEPTACHLOR				0.10 UG/L		UJ									

SAMPLE NUMBER:	056668			056702			056683			056686			056690		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				0.10 UG/L		UJ									
METHOXYCHLOR				1.00 UG/L		UJ									
TOXAPHENE				2.00 UG/L		UJ									
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		UJ									
2,4,5-TRICHLOROPHENOL				100.00 UG/L		UJ									
2,4,6-TRICHLOROPHENOL				20.00 UG/L		UJ									
2,4-DINITROTOLUENE				20.00 UG/L		UJ									
2-METHYLPHENOL				20.00 UG/L		UJ									
4-METHYLPHENOL				20.00 UG/L		UJ									
HEXACHLOROBENZENE				20.00 UG/L		UJ									
HEXACHLOROBUTADIENE				20.00 UG/L		UJ									
HEXACHLOROETHANE				20.00 UG/L		UJ									
NITROBENZENE				20.00 UG/L		UJ									
PENTACHLOROPHENOL				100.00 UG/L		UJ									
PYRIDINE				13.00 UG/L		J									
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U									
1,2-DICHLOROETHANE				5.00 UG/L		U									
2-BUTANONE				10.00 UG/L		U									
BENZENE				5.00 UG/L		U									
CARBON TETRACHLORIDE				5.00 UG/L		U									
CHLOROBENZENE				5.00 UG/L		U									
CHLOROFORM				5.00 UG/L		U									
TETRACHLOROETHENE				5.00 UG/L		U									
TRICHLOROETHENE				5.00 UG/L		U									
VINYL CHLORIDE				10.00 UG/L		U									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056701	000833	056724	056705	056708
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1593	1594	1594	1594	1594
DEPTH:	9.5-10	-	-	.5-1	2-2.5
DATE COLLECTED:	01-NOV-90	11-AUG-91	11-OCT-90	07-OCT-90	07-OCT-90
NORTH COORDINATE:	481005.94	481003.19	481003.19	481003.19	481003.19
EAST COORDINATE:	1380975.47	1381008.93	1381008.93	1381008.93	1381008.93
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	DL-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV							13.00 %		NV	10.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				17.00 UG/L		U	1.80 UG/L		UJ						
2,4-D				120.00 UG/L		U	12.60 UG/L		UJ						
INORGANICS															
ARSENIC				0.05 MG/L		U	250.00 MG/L		UJ						
BARIUM				1.67 MG/L		U	1023.00 MG/L		J						
CADMIUM				0.00 MG/L		U	5.70 MG/L		J						
CHROMIUM				0.00 MG/L		U	156.00 MG/L		J						
LEAD				0.04 MG/L		U	200.00 MG/L		UJ						
MERCURY				0.00 MG/L		U	0.20 MG/L		U						
SELENIUM				0.07 MG/L		U	168.00 MG/L		U						
SILVER				0.00 MG/L		U	83.60 MG/L		J						
PESTICIDES															
ALPHA-CHLORDANE							1.00 UG/L		UJ						
CHLORDANE				0.70 UG/L		U	2.00 UG/L		UJ						
ENDRIN				0.30 UG/L		U	0.20 UG/L		UJ						
GAMMA-BHC (LINDANE)				0.20 UG/L		U	0.10 UG/L		UJ						
GAMMA-CHLORDANE							1.00 UG/L		UJ						
HEPTACHLOR				0.15 UG/L		U	0.10 UG/L		UJ						
HEPTACHLOR EPOXIDE				4.20 UG/L		U	0.10 UG/L		UJ						
METHOXYCHLOR				8.80 UG/L		U	1.00 UG/L		UJ						
TOXAPHENE				12.00 UG/L		U	2.00 UG/L		UJ						

000328

SEMIVOLATILES															
1,4-DICHLOROBENZENE 06/14/94				80.00 UG/L		U									
SAMPLE NUMBER:	056701			000833			056724			056705			056708		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL				80.00 UG/L		U									
2,4,6-TRICHLOROPHENOL				80.00 UG/L		U									
2,4-DINITROTOLUENE				80.00 UG/L		U									
2-METHYLPHENOL				80.00 UG/L		U									
4-METHYLPHENOL				80.00 UG/L		U									
HEXACHLOROBENZENE				80.00 UG/L		U									
HEXACHLOROBUTADIENE				80.00 UG/L		U									
HEXACHLOROETHANE				80.00 UG/L		U									
NITROBENZENE				80.00 UG/L		U									
PENTACHLOROPHENOL				400.00 UG/L		U									
PYRIDINE				800.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE				50.00 UG/L		U	5.00 UG/L		UJ						
1,2-DICHLOROETHANE				50.00 UG/L		U	5.00 UG/L		UJ						
2-BUTANONE				100.00 UG/L		U	10.00 UG/L		UJ						
BENZENE				50.00 UG/L		U	5.00 UG/L		UJ						
CARBON TETRACHLORIDE				50.00 UG/L		U	5.00 UG/L		UJ						
CHLOROBENZENE				50.00 UG/L		U	5.00 UG/L		UJ						
CHLOROFORM				50.00 UG/L		U	5.00 UG/L		UJ						
TETRACHLOROETHENE				13.00 UG/L		J	5.00 UG/L		UJ						
TRICHLOROETHENE				50.00 UG/L		U	160.00 UG/L		J						
VINYL CHLORIDE				100.00 UG/L		U	10.00 UG/L		UJ						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056712	056723	000834	056746	056730
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1594	1594	1595	1595	1595
DEPTH:	4-4.5	9.5-10	-	-	2-2.5
DATE COLLECTED:	07-OCT-90	11-OCT-90	11-AUG-91	11-OCT-90	07-OCT-90
NORTH COORDINATE:	481003.19	481003.19	481005.09	481005.09	481005.09
EAST COORDINATE:	1381008.93	1381008.93	1381041.7	1381041.7	1381041.7
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	DL-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	4.00 % MOISTURE		NV	11.00 %		NV							13.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)							17.00 UG/L		U	2.10 UG/L		UJ			
2,4-D							120.00 UG/L		U	14.70 UG/L		UJ			
INORGANICS															
ARSENIC							0.05 MG/L		U	50.00 MG/L		UJ			
BARIUM							1.25 MG/L		U	604.00 MG/L		J			
CADMIUM							0.00 MG/L		U	2.00 MG/L		U			
CHROMIUM							0.00 MG/L		U	25.30 MG/L		J			
LEAD							0.04 MG/L		U	40.00 MG/L		UJ			
MERCURY							0.00 MG/L		U	0.20 MG/L		U			
SELENIUM							0.07 MG/L		U	80.00 MG/L		UJ			
SILVER							0.00 MG/L		U	10.80 MG/L		J			
PESTICIDES															
ALPHA-CHLORDANE										1.00 UG/L		UJ			
CHLORDANE							0.70 UG/L		U	2.00 UG/L		UJ			
ENDRIN							0.30 UG/L		U	0.20 UG/L		UJ			
GAMMA-BHC (LINDANE)							0.20 UG/L		U	0.10 UG/L		UJ			
GAMMA-CHLORDANE										1.00 UG/L		UJ			
HEPTACHLOR							0.15 UG/L		U	0.10 UG/L		UJ			
HEPTACHLOR EPOXIDE							4.20 UG/L		U	0.10 UG/L		UJ			
METHOXYCHLOR							8.80 UG/L		U	1.00 UG/L		UJ			
TOXAPHENE							12.00 UG/L		U	2.00 UG/L		UJ			

000330

SEMIVOLATILES

1,4-DICHLOROBENZENE 40.00 UG/L U
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056712			056723			000834			056746			056730		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL							40.00 UG/L		U						
2,4,6-TRICHLOROPHENOL							40.00 UG/L		U						
2,4-DINITROTOLUENE							40.00 UG/L		U						
2-METHYLPHENOL							40.00 UG/L		U						
4-METHYLPHENOL							40.00 UG/L		U						
HEXACHLOROBENZENE							40.00 UG/L		U						
HEXACHLOROBUTADIENE							40.00 UG/L		U						
HEXACHLOROETHANE							40.00 UG/L		U						
NITROBENZENE							40.00 UG/L		U						
PENTACHLOROPHENOL							200.00 UG/L		U						
PYRIDINE							400.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE							50.00 UG/L		U	5.00 UG/L		UJ			
1,2-DICHLOROETHANE							50.00 UG/L		U	5.00 UG/L		UJ			
2-BUTANONE							14.00 UG/L		J	10.00 UG/L		UJ			
BENZENE							50.00 UG/L		U	5.00 UG/L		UJ			
CARBON TETRACHLORIDE							50.00 UG/L		U	5.00 UG/L		UJ			
CHLOROBENZENE							50.00 UG/L		U	5.00 UG/L		UJ			
CHLOROFORM							50.00 UG/L		U	5.00 UG/L		UJ			
TETRACHLOROETHENE							50.00 UG/L		U	5.00 UG/L		UJ			
TRICHLOROETHENE							50.00 UG/L		U	5.00 UG/L		UJ			
VINYL CHLORIDE							100.00 UG/L		U	10.00 UG/L		UJ			

000331

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056745	056768	056790	056996	056815
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1595	1596	1597	1599	1599
DEPTH:	9.5-10	-	-	-	1.5-2
DATE COLLECTED:	11-OCT-90	05-OCT-90	05-OCT-90	18-NOV-90	18-OCT-90
NORTH COORDINATE:	481005.09	481004.1	481005.35	480970.6	480970.6
EAST COORDINATE:	1381041.7	1381075.64	1381108.53	1381033.7	1381033.7
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV										4.00 % MOISTURE		NV
HERBICIDES															
2,4,5-TP (SILVEX)				1.90 UG/L		UJ	1.90 UG/L		U	1.80 UG/L		U			
2,4-D				12.40 UG/L		UJ	12.60 UG/L		U	12.00 UG/L		U			
INORGANICS															
ARSENIC				0.25 MG/L		U	0.25 MG/L		U	0.25 MG/L		U			
BARIUM				0.81 MG/L		-	0.96 MG/L		-	1.22 MG/L		-			
CADMIUM				0.01 MG/L		-	0.01 MG/L		-	0.01 MG/L		U			
CHROMIUM				0.10 MG/L		-	0.08 MG/L		-	0.09 MG/L		-			
LEAD				0.20 MG/L		UJ	0.20 MG/L		UJ	0.20 MG/L		U			
MERCURY				0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U			
SELENIUM				0.11 MG/L		-	0.13 MG/L		-	0.40 MG/L		U			
SILVER				0.08 MG/L		-	0.07 MG/L		-	0.10 MG/L		-			
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		UJ	20.00 UG/L		U						
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		UJ	1.00 UG/L		U	0.50 UG/L		U			
CHLORDANE				1.00 UG/L		UJ	2.00 UG/L		U	1.00 UG/L		U			
ENDRIN				0.10 UG/L		UJ	0.20 UG/L		U	0.10 UG/L		U			
GAMMA-BHC (LINDANE)				0.05 UG/L		UJ	0.10 UG/L		U	0.05 UG/L		U			
GAMMA-CHLORDANE				0.50 UG/L		UJ	1.00 UG/L		U	0.50 UG/L		U			
HEPTACHLOR				0.05 UG/L		UJ	0.10 UG/L		U	0.05 UG/L		U			

SAMPLE NUMBER:	056745			056768			056790			056996			056815		
LAB:				IT			IT			IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				0.05 UG/L		UJ	0.10 UG/L		U	0.05 UG/L		U			
METHOXYCHLOR				0.50 UG/L		UJ	1.00 UG/L		U	0.50 UG/L		U			
TOXAPHENE				1.00 UG/L		UJ	2.00 UG/L		U	1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		UJ	20.00 UG/L		U						
2,4,5-TRICHLOROPHENOL				100.00 UG/L		UJ	100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL				20.00 UG/L		UJ	20.00 UG/L		U						
2,4-DINITROTOLUENE				20.00 UG/L		UJ	20.00 UG/L		U						
2-METHYLPHENOL				20.00 UG/L		UJ	20.00 UG/L		U						
4-METHYLPHENOL				20.00 UG/L		UJ	20.00 UG/L		U						
HEXACHLOROBENZENE				20.00 UG/L		UJ	20.00 UG/L		U						
HEXACHLOROBUTADIENE				20.00 UG/L		UJ	20.00 UG/L		U						
HEXACHLOROETHANE				20.00 UG/L		UJ	20.00 UG/L		U						
NITROBENZENE				20.00 UG/L		UJ	20.00 UG/L		U						
PENTACHLOROPHENOL				100.00 UG/L		UJ	100.00 UG/L		U						
PYRIDINE				20.00 UG/L		UJ	20.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U			
1,2-DICHLOROETHANE										5.00 UG/L		U			
2-BUTANONE										10.00 UG/L		U			
BENZENE										5.00 UG/L		U			
CARBON TETRACHLORIDE										5.00 UG/L		U			
CHLOROBENZENE										5.00 UG/L		U			
CHLOROFORM										5.00 UG/L		U			
TETRACHLOROETHENE										5.00 UG/L		U			
TRICHLOROETHENE										5.00 UG/L		U			
VINYL CHLORIDE										10.00 UG/L		U			

000333

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056820	056823	056830	000839	056997
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1599	1599	1599	1600	1600
DEPTH:	4-4.5	5.5-6	9-9.5	-	-
DATE COLLECTED:	23-OCT-90	23-OCT-90	23-OCT-90	11-AUG-91	18-NOV-90
NORTH COORDINATE:	480970.6	480970.6	480970.6	480968.57	480968.57
EAST COORDINATE:	1381033.7	1381033.7	1381033.7	1381080.16	1381080.16
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	11.00 %		NV	10.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										17.00 UG/L		U	3.40 UG/L		U
2,4-D										120.00 UG/L		U	23.60 UG/L		U
INORGANICS															
ARSENIC										0.05 MG/L		U	0.30 MG/L		U
BARIUM										0.65 MG/L		U	0.71 MG/L		-
CADMIUM										0.00 MG/L		U	0.01 MG/L		-
CHROMIUM										0.00 MG/L		U	0.07 MG/L		-
LEAD										0.04 MG/L		U	0.20 MG/L		U
MERCURY										0.00 MG/L		U	0.00 MG/L		U
SELENIUM										0.07 MG/L		U	0.40 MG/L		U
SILVER										0.00 MG/L		U	0.12 MG/L		-
PESTICIDES															
ALPHA-CHLORDANE													0.50 UG/L		U
CHLORDANE										0.70 UG/L		U	1.00 UG/L		U
ENDRIN										0.30 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)										0.20 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE													0.50 UG/L		U
HEPTACHLOR										0.15 UG/L		U	0.05 UG/L		U
HEPTACHLOR EPOXIDE										4.20 UG/L		U	0.05 UG/L		U
METHOXYCHLOR										8.80 UG/L		U	0.50 UG/L		U
TOXAPHENE										12.00 UG/L		U	1.00 UG/L		U

000334

SEMIVOLATILES

1,4-DICHLOROBENZENE 40.00 UG/L U
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056820			056823			056830			000839			056997		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL										40.00 UG/L		U			
2,4,6-TRICHLOROPHENOL										40.00 UG/L		U			
2,4-DINITROTOLUENE										40.00 UG/L		U			
2-METHYLPHENOL										40.00 UG/L		U			
4-METHYLPHENOL										40.00 UG/L		U			
HEXACHLOROBENZENE										40.00 UG/L		U			
HEXACHLOROBUTADIENE										40.00 UG/L		U			
HEXACHLOROETHANE										40.00 UG/L		U			
NITROBENZENE										40.00 UG/L		U			
PENTACHLOROPHENOL										200.00 UG/L		U			
PYRIDINE										400.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE										50.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE										50.00 UG/L		U	5.00 UG/L		U
2-BUTANONE										100.00 UG/L		U	10.00 UG/L		U
BENZENE										13.00 UG/L		J	5.00 UG/L		U
CARBON TETRACHLORIDE										50.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE										50.00 UG/L		U	5.00 UG/L		U
CHLOROFORM										50.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE										50.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE										50.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE										100.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056837	056840	056843	056847	052781
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1600	1600	1600	1600	1601
DEPTH:	4.5-5	6-6.5	7.5-8	9.5-10	.5-1
DATE COLLECTED:	24-OCT-90	24-OCT-90	25-OCT-90	25-OCT-90	13-SEP-90
NORTH COORDINATE:	480968.57	480968.57	480968.57	480968.57	480774.78
EAST COORDINATE:	1381080.16	1381080.16	1381080.16	1381080.16	1381358.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	10.00 %		NV	13.00 %		NV	11.00 %		NV	7.00 % MOISTURE		NV

000336

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	052784			052788			018176			052775			052779		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1601			1601			1602			1602			1602		
DEPTH:	2-2.5			4-4.5			.5-1			2-2.5			4-4.5		
DATE COLLECTED:	13-SEP-90			13-SEP-90			11-SEP-90			11-SEP-90			11-SEP-90		
NORTH COORDINATE:	480774.78			480774.78			480768.14			480768.14			480768.14		
EAST COORDINATE:	1381358.96			1381358.96			1381301.1			1381301.1			1381301.1		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			R-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	13.00 %		NV	6.00 % MOISTURE		NV	10.00 %		NV	10.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	018170	018174	018158	018161	018165
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1603	1603	1604	1604	1604
DEPTH:	2-2.5	4-4.5	.5-1	2-2.5	4-4.5
DATE COLLECTED:	10-SEP-90	10-SEP-90	09-SEP-90	09-SEP-90	09-SEP-90
NORTH COORDINATE:	480777.57	480777.57	480771.47	480771.47	480771.47
EAST COORDINATE:	1381249.59	1381249.59	1381199.06	1381199.06	1381199.06
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	12.00 %		NV	10.00 %		NV	12.00 %		NV	11.00 %		NV

000338

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	052790	052793	018203	057223	057264
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT-KNOX
WELL OR BORING NUMBER:	1605	1605	1605	1606	1607
DEPTH:	.5-1	2-2.5	4-4.5	-	-
DATE COLLECTED:	18-SEP-90	18-SEP-90	18-SEP-90	19-FEB-91	03-FEB-91
NORTH COORDINATE:	480767.45	480767.45	480767.45	480374.87	480303.77
EAST COORDINATE:	1381393.37	1381393.37	1381393.37	1381630.23	1381636.76
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	15.00 %		NV	10.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		U	1.80 UG/L		U
2,4-D										12.00 UG/L		U	12.00 UG/L		U
INORGANICS															
ARSENIC										0.28 MG/L		-	0.16 MG/L		U
BARIUM										1.52 MG/L		-	0.65 MG/L		U
CADMIUM										0.03 MG/L		J	0.01 MG/L		-
CHROMIUM										0.06 MG/L		-	0.02 MG/L		-
LEAD										0.16 MG/L		-	0.06 MG/L		-
MERCURY										0.00 MG/L		U	0.00 MG/L		U
SELENIUM										0.24 MG/L		-	0.14 MG/L		U
SILVER										0.10 MG/L		-	0.03 MG/L		-
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		U	10.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		U	0.50 UG/L		U
CHLORDANE										1.00 UG/L		U			
ENDRIN										0.10 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)										0.05 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE										0.50 UG/L		U	0.50 UG/L		U
HEPTACHLOR										0.05 UG/L		U	0.05 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	052790			052793			018203			057223			057264		
LAB:										IT			IT-KNOX		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE										0.05 UG/L		U	0.05 UG/L		U
METHOXYCHLOR										0.50 UG/L		U	0.50 UG/L		U
TOXAPHENE										1.00 UG/L		U	1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		U	10.00 UG/L		U
2,4,5-TRICHLOROPHENOL										100.00 UG/L		U	50.00 UG/L		U
2,4,6-TRICHLOROPHENOL										20.00 UG/L		U	10.00 UG/L		U
2,4-DINITROTOLUENE										20.00 UG/L		U	10.00 UG/L		U
2-METHYLPHENOL										20.00 UG/L		U	10.00 UG/L		U
4-METHYLPHENOL										20.00 UG/L		U	10.00 UG/L		U
HEXACHLOROBENZENE										20.00 UG/L		U	10.00 UG/L		U
HEXACHLOROBUTADIENE										20.00 UG/L		U	10.00 UG/L		U
HEXACHLOROETHANE										20.00 UG/L		U	10.00 UG/L		U
NITROBENZENE										20.00 UG/L		U	10.00 UG/L		U
PENTACHLOROPHENOL										100.00 UG/L		U	50.00 UG/L		U
PYRIDINE										20.00 UG/L		U	100.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE										5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE										10.00 UG/L		U	10.00 UG/L		U
BENZENE										5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE										5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE										5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM										5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE										130.00 UG/L		-	19.00 UG/L		-
VINYL CHLORIDE										10.00 UG/L		U	10.00 UG/L		U

000340

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057232	057233	057310	057276	057277
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1607	1607	1608	1608	1608
DEPTH:	4-4.5	4.5-5	-	4-4.5	4.5-5
DATE COLLECTED:	02-FEB-91	02-FEB-91	28-FEB-91	25-FEB-91	25-FEB-91
NORTH COORDINATE:	480303.77	480303.77	480249.42	480249.42	480249.42
EAST COORDINATE:	1381636.76	1381636.76	1381636.25	1381636.25	1381636.25
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	26.00 %		NV	24.00 %		NV				30.00 %		NV	30.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)							1.80 UG/L		U						
2,4-D							12.00 UG/L		U						
INORGANICS															
ARSENIC							0.41 MG/L		U						
BARIUM							0.72 MG/L		-						
CADMIUM							0.02 MG/L		-						
CHROMIUM							0.09 MG/L		-						
LEAD							0.20 MG/L		U						
MERCURY							0.00 MG/L		U						
SELENIUM							0.40 MG/L		U						
SILVER							0.15 MG/L		-						
No sort code listed.															
3-METHYLPHENOL							10.00 UG/L		U						
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		U						
CHLORDANE							1.00 UG/L		U						
ENDRIN							0.10 UG/L		U						
GAMMA-BHC (LINDANE)							0.05 UG/L		U						
GAMMA-CHLORDANE							0.50 UG/L		U						
HEPTACHLOR							0.05 UG/L		U						

000341

5704

SAMPLE NUMBER:	057232			057233			057310			057276			057277		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE							0.05 UG/L		U						
METHOXYCHLOR							0.50 UG/L		U						
TOXAPHENE							1.00 UG/L		U						
SEMIVOLATILES															
1,4-DICHLOROBENZENE							10.00 UG/L		U						
2,4,5-TRICHLOROPHENOL							50.00 UG/L		U						
2,4,6-TRICHLOROPHENOL							10.00 UG/L		U						
2,4-DINITROTOLUENE							10.00 UG/L		U						
2-METHYLPHENOL							10.00 UG/L		U						
4-METHYLPHENOL							10.00 UG/L		U						
HEXACHLOROBENZENE							10.00 UG/L		U						
HEXACHLOROBUTADIENE							10.00 UG/L		U						
HEXACHLOROETHANE							10.00 UG/L		U						
NITROBENZENE							10.00 UG/L		U						
PENTACHLOROPHENOL							50.00 UG/L		U						
PYRIDINE							10.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U						
1,2-DICHLOROETHANE							5.00 UG/L		U						
2-BUTANONE							10.00 UG/L		U						
BENZENE							5.00 UG/L		U						
CARBON TETRACHLORIDE							5.00 UG/L		U						
CHLOROBENZENE							5.00 UG/L		U						
CHLOROFORM							5.00 UG/L		U						
TETRACHLOROETHENE							5.00 UG/L		U						
TRICHLOROETHENE							20.00 UG/L		U						
VINYL CHLORIDE							10.00 UG/L		U						

000342

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057320	057321	057366	000826	057137
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1609	1609	1610	1611	1611
DEPTH:	4-4.5	4.5-5	4.5-5	-	-
DATE COLLECTED:	22-JAN-91	22-JAN-91	19-JAN-91	25-AUG-91	17-DEC-90
NORTH COORDINATE:	480313.17	480313.17	480280.2	480423.16	480423.16
EAST COORDINATE:	1381676.09	1381676.09	1381673.17	1381733.29	1381733.29
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	R-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	4.00 % MOISTURE		NV	0.00 % MOISTURE		NV	2.00 % MOISTURE		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										17.00 UG/L		U	6.80 UG/L		U
2,4-D										120.00 UG/L		U	51.00 UG/L		U
INORGANICS															
ARSENIC										0.05 MG/L		U	0.25 MG/L		U
BARIUM										1.19 MG/L		U	1.55 MG/L		-
CADMIUM										0.00 MG/L		U	0.01 MG/L		-
CHROMIUM										0.00 MG/L		U	0.09 MG/L		-
LEAD										0.04 MG/L		U	0.20 MG/L		U
MERCURY										0.00 MG/L		UJ	0.00 MG/L		U
SELENIUM										0.07 MG/L		U	0.40 MG/L		U
SILVER										0.00 MG/L		U	0.15 MG/L		-
PESTICIDES															
ALPHA-CHLORDANE													1.00 UG/L		U
CHLORDANE										0.70 UG/L		U			
ENDRIN										0.30 UG/L		U	0.20 UG/L		U
GAMMA-BHC (LINDANE)										0.20 UG/L		U	0.10 UG/L		U
GAMMA-CHLORDANE													1.00 UG/L		U
HEPTACHLOR										0.15 UG/L		U	0.10 UG/L		U
HEPTACHLOR EPOXIDE										4.20 UG/L		U	0.10 UG/L		U
METHOXYCHLOR										8.80 UG/L		U	1.00 UG/L		U
TOXAPHENE										12.00 UG/L		U	2.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057103	057104	000827	057176	057439
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1611	1611	1612	1612	1613
DEPTH:	4-4.5	4.5-5	-	-	-
DATE COLLECTED:	12-DEC-90	12-DEC-90	25-AUG-91	16-DEC-90	31-JAN-91
NORTH COORDINATE:	480423.16	480423.16	480380.06	480380.06	480283.16
EAST COORDINATE:	1381733.29	1381733.29	1381731.07	1381731.07	1381713.79
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	25.00 %		NV	25.00 %		NV									
HERBICIDES															
2,4,5-TP (SILVEX)							17.00 UG/L		U	6.80 UG/L		U	1.80 UG/L		U
2,4-D							120.00 UG/L		U	51.00 UG/L		U	12.00 UG/L		U
INORGANICS															
ARSENIC							0.05 MG/L		U	0.25 MG/L		U	0.04 MG/L		U
BARIUM							0.85 MG/L		U	1.17 MG/L		-	1.00 MG/L		-
CADMIUM							0.00 MG/L		U	0.01 MG/L		U	0.01 MG/L		U
CHROMIUM							0.00 MG/L		U	0.09 MG/L		-	0.01 MG/L		U
LEAD							0.04 MG/L		U	0.20 MG/L		U	0.03 MG/L		U
MERCURY							0.00 MG/L		UJ	0.00 MG/L		U	0.00 MG/L		U
SELENIUM							0.07 MG/L		U	0.40 MG/L		U	0.06 MG/L		U
SILVER							0.00 MG/L		U	0.13 MG/L		-	0.01 MG/L		UJ
PESTICIDES															
ALPHA-CHLORDANE										1.00 UG/L		U	0.50 UG/L		U
CHLORDANE							0.70 UG/L		U				1.00 UG/L		U
ENDRIN							0.30 UG/L		U	0.20 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)							0.20 UG/L		U	0.10 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE										1.00 UG/L		U	0.50 UG/L		U
HEPTACHLOR							0.15 UG/L		U	0.10 UG/L		U	0.05 UG/L		U
HEPTACHLOR EPOXIDE							4.20 UG/L		U	0.10 UG/L		U	0.05 UG/L		U
METHOXYCHLOR							8.80 UG/L		U	1.00 UG/L		U	0.50 UG/L		U
TOXAPHENE							12.00 UG/L		U	2.00 UG/L		U	1.00 UG/L		U

000344

SEMIVOLATILES

1,4-DICHLOROBENZENE 40.00 UG/L U
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057103			057104			000827			057176			057439		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL							40.00 UG/L		U						
2,4,6-TRICHLOROPHENOL							40.00 UG/L		U						
2,4-DINITROTOLUENE							40.00 UG/L		U						
2-METHYLPHENOL							40.00 UG/L		U						
4-METHYLPHENOL							40.00 UG/L		U						
HEXACHLOROBENZENE							40.00 UG/L		U						
HEXACHLOROBUTADIENE							40.00 UG/L		U						
HEXACHLOROETHANE							40.00 UG/L		U						
NITROBENZENE							40.00 UG/L		U						
PENTACHLOROPHENOL							200.00 UG/L		U						
PYRIDINE							400.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE							50.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
1,2-DICHLOROETHANE							50.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
2-BUTANONE							100.00 UG/L		U	10.00 UG/L		U	50.00 UG/L		U
BENZENE							50.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
CARBON TETRACHLORIDE							50.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
CHLOROBENZENE							50.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
CHLOROFORM							50.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
TETRACHLOROETHENE							13.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
TRICHLOROETHENE							50.00 UG/L		U	5.00 UG/L		U	25.00 UG/L		U
VINYL CHLORIDE							100.00 UG/L		U	10.00 UG/L		U	50.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	064030	064031	064034	064039	064040
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1616	1616	1616	1616	1616
DEPTH:	83-85.2	83-85.2	89.2-90.5	103-104.	103-104.
DATE COLLECTED:	26-JUN-91	26-JUN-91	26-JUN-91	28-JUN-91	28-JUN-91
NORTH COORDINATE:	480469.31	480469.31	480469.31	480469.31	480469.31
EAST COORDINATE:	1378315.91	1378315.91	1378315.91	1378315.91	1378315.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV				10.90 %		NV	14.00 %		NV			
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U							1.80 UG/L		U
2,4-D				10.00 UG/L		U							10.00 UG/L		U
INORGANICS															
ARSENIC				0.25 MG/L		U							0.25 MG/L		U
BARIUM				1.11 MG/L		-							2.15 MG/L		J
CADMIUM				0.01 MG/L		U							0.01 MG/L		-
CHROMIUM				0.11 MG/L		-							0.25 MG/L		-
LEAD				0.10 MG/L		-							0.21 MG/L		J
MERCURY				0.00 MG/L		U							0.00 MG/L		U
SELENIUM				0.15 MG/L		-							0.40 MG/L		U
SILVER				0.10 MG/L		-							0.23 MG/L		-
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U							20.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U							0.50 UG/L		U
ENDRIN				0.10 UG/L		U							0.10 UG/L		U
GAMMA-BHC (LINDANE)				0.05 UG/L		U							0.05 UG/L		U
GAMMA-CHLORDANE				0.50 UG/L		U							0.50 UG/L		U
HEPTACHLOR				0.05 UG/L		U							0.05 UG/L		U
HEPTACHLOR EPOXIDE				0.05 UG/L		U							0.05 UG/L		U

000346

SAMPLE NUMBER:	064030			064031			064034			064039			064040		
LAB:				IT									IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR				0.50 UG/L		U							0.50 UG/L		U
TOXAPHENE				1.00 UG/L		U							1.00 UG/L		UR
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U							20.00 UG/L		U
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U							100.00 UG/L		U
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U							20.00 UG/L		U
2,4-DINITROTOLUENE				20.00 UG/L		U							20.00 UG/L		U
2-METHYLPHENOL				20.00 UG/L		U							20.00 UG/L		U
4-METHYLPHENOL				20.00 UG/L		U							20.00 UG/L		U
HEXACHLOROBENZENE				20.00 UG/L		U							20.00 UG/L		U
HEXACHLOROBUTADIENE				20.00 UG/L		U							20.00 UG/L		U
HEXACHLOROETHANE				20.00 UG/L		U							20.00 UG/L		U
NITROBENZENE				20.00 UG/L		U							20.00 UG/L		U
PENTACHLOROPHENOL				100.00 UG/L		U							100.00 UG/L		U
PYRIDINE				20.00 UG/L		U							20.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U							20.00 UG/L		U
1,2-DICHLOROETHANE				5.00 UG/L		U							20.00 UG/L		U
2-BUTANONE				10.00 UG/L		U							40.00 UG/L		U
BENZENE				5.00 UG/L		U							20.00 UG/L		U
CARBON TETRACHLORIDE				5.00 UG/L		U							20.00 UG/L		U
CHLOROBENZENE				5.00 UG/L		U							20.00 UG/L		U
CHLOROFORM				5.00 UG/L		U							20.00 UG/L		U
TETRACHLOROETHENE				2.00 UG/L		U							20.00 UG/L		U
TRICHLOROETHENE				5.00 UG/L		U							20.00 UG/L		U
VINYL CHLORIDE				10.00 UG/L		U							40.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	064043	064003	064102	064103	064107
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1616	1617	1618	1618	1618
DEPTH:	106.-108	61-62.2	47.5-48.5	47.5-48.5	51.2-52.5
DATE COLLECTED:	28-JUN-91	04-MAY-91	29-JUL-91	29-JUL-91	30-JUL-91
NORTH COORDINATE:	480469.31	480309.37	480307.07	480307.07	480307.07
EAST COORDINATE:	1378315.91	1378393.37	1378575.33	1378575.33	1378575.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	9.60 %		NV	17.00 %		NV				23.50 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		U			
2,4-D										10.00 UG/L		U			
INORGANICS															
ARSENIC										0.11 MG/L		-			
BARIUM										0.32 MG/L		-			
CADMIUM										0.00 MG/L		U			
CHROMIUM										0.02 MG/L		-			
LEAD										0.04 MG/L		U			
MERCURY										0.00 MG/L		U			
SELENIUM										0.10 MG/L		-			
SILVER										0.01 MG/L		-			
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		UJ			
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		UR			
ENDRIN										0.10 UG/L		UR			
GAMMA-BHC (LINDANE)										0.05 UG/L		UR			
GAMMA-CHLORDANE										0.50 UG/L		UR			
HEPTACHLOR										0.05 UG/L		UR			
HEPTACHLOR EPOXIDE										0.05 UG/L		UR			

SAMPLE NUMBER:	064043			064003			064102			064103			064107		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR										0.50 UG/L		UR			
TOXAPHENE										1.00 UG/L		UR			
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		U			
2,4,5-TRICHLOROPHENOL										100.00 UG/L		UJ			
2,4,6-TRICHLOROPHENOL										20.00 UG/L		UJ			
2,4-DINITROTOLUENE										20.00 UG/L		U			
2-METHYLPHENOL										20.00 UG/L		UJ			
4-METHYLPHENOL										20.00 UG/L		UJ			
HEXACHLOROBENZENE										20.00 UG/L		U			
HEXACHLOROBUTADIENE										20.00 UG/L		U			
HEXACHLOROETHANE										20.00 UG/L		U			
NITROBENZENE										20.00 UG/L		U			
PENTACHLOROPHENOL										15.00 UG/L		J			
PYRIDINE										20.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U			
1,2-DICHLOROETHANE										5.00 UG/L		U			
2-BUTANONE										1.00 UG/L		J			
BENZENE										5.00 UG/L		U			
CARBON TETRACHLORIDE										5.00 UG/L		U			
CHLOROBENZENE										5.00 UG/L		U			
CHLOROFORM										5.00 UG/L		U			
TETRACHLOROETHENE										5.00 UG/L		U			
TRICHLOROETHENE										5.00 UG/L		U			
VINYL CHLORIDE										10.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	064112			064117			064123			064127			064134		
TASK:	40.03.01			40.03.01			40.03.01			40.03.01			40.03.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1618			1618			1618			1618			1618		
DEPTH:	67.5-70			71.2-72.5			87.5-90			91.2-92.5			105-107.		
DATE COLLECTED:	30-JUL-91			31-JUL-91			01-AUG-91			01-AUG-91			02-AUG-91		
NORTH COORDINATE:	480307.07			480307.07			480307.07			480307.07			480307.07		
EAST COORDINATE:	1378575.33			1378575.33			1378575.33			1378575.33			1378575.33		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV	20.20 %		NV	17.00 %		NV	21.30 %		NV	18.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	064138	064146	064147	064150	064067
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1618	1618	1618	1618	1619
DEPTH:	108.-110	125-127.	125-127.	128.-130	57.5-60
DATE COLLECTED:	02-AUG-91	03-AUG-91	03-AUG-91	03-AUG-91	20-JUL-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480307.07	480412.98
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378575.33	1378593.22
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.80 %		NV	19.00 %		NV				22.80 %		NV	16.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)							1.80 UG/L		U						
2,4-D							10.00 UG/L		U						
INORGANICS															
ARSENIC							0.25 MG/L		UR						
BARIUM							0.50 MG/L		R						
CADMIUM							0.02 MG/L		-						
CHROMIUM							0.12 MG/L		R						
LEAD							0.18 MG/L		R						
MERCURY							0.00 MG/L		UR						
SELENIUM							0.19 MG/L		R						
SILVER							0.10 MG/L		R						
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		UJ						
PESTICIDES															
4,4'-DDD							0.10 UG/L		U						
4,4'-DDE							0.10 UG/L		U						
4,4'-DDT							0.10 UG/L		U						
ALDRIN							0.05 UG/L		U						
ALPHA-BHC							0.05 UG/L		U						
ALPHA-CHLORDANE							0.50 UG/L		U						

SAMPLE NUMBER:	064138			064146			064147			064150			064067		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
AROCLOR-1016							0.50 UG/L		U						
AROCLOR-1221							0.50 UG/L		U						
AROCLOR-1232							0.50 UG/L		U						
AROCLOR-1242							0.50 UG/L		U						
AROCLOR-1248							0.50 UG/L		U						
AROCLOR-1254							1.00 UG/L		U						
AROCLOR-1260							1.00 UG/L		U						
BETA-BHC							0.05 UG/L		U						
DELTA-BHC							0.05 UG/L		U						
DIELDRIN							0.10 UG/L		U						
ENDOSULFAN II							0.10 UG/L		U						
ENDOSULFAN SULFATE							0.10 UG/L		U						
ENDOSULFAN-I							0.05 UG/L		U						
ENDRIN							0.10 UG/L		U						
ENDRIN KETONE							0.10 UG/L		U						
GAMMA-BHC (LINDANE)							0.05 UG/L		U						
GAMMA-CHLORDANE							0.50 UG/L		U						
HEPTACHLOR							0.05 UG/L		U						
HEPTACHLOR EPOXIDE							0.05 UG/L		U						
METHOXYCHLOR							0.50 UG/L		U						
TOXAPHENE							1.00 UG/L		U						
SEMIVOLATILES															
1,4-DICHLOROBENZENE							20.00 UG/L		UR						
2,4,5-TRICHLOROPHENOL							100.00 UG/L		UR						
2,4,6-TRICHLOROPHENOL							20.00 UG/L		UJ						
2,4-DINITROTOLUENE							20.00 UG/L		UR						
2-METHYLPHENOL							20.00 UG/L		UJ						
4-METHYLPHENOL							20.00 UG/L		UJ						
HEXACHLOROBENZENE							20.00 UG/L		UR						
HEXACHLOROBUTADIENE							20.00 UG/L		UR						
HEXACHLOROETHANE							20.00 UG/L		UR						
NITROBENZENE							20.00 UG/L		UR						
PENTACHLOROPHENOL							100.00 UG/L		UR						
PYRIDINE							20.00 UG/L		UJ						
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U						
1,2-DICHLOROETHANE							5.00 UG/L		U						
2-BUTANONE							1.00 UG/L		J						
BENZENE							5.00 UG/L		U						
CARBON TETRACHLORIDE							5.00 UG/L		U						
CHLOROBENZENE							5.00 UG/L		U						

000352

SAMPLE NUMBER:	064138			064146			064147			064150			064067		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROFORM							5.00 UG/L		U						
TETRACHLOROETHENE							5.00 UG/L		U						
TRICHLOROETHENE							5.00 UG/L		U						
VINYL CHLORIDE							10.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	064068	064079	064085	099461	099462
TASK:	40.03.01	40.03.01	40.03.01	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1619	1619	1619	1620	1620
DEPTH:	57.5-60	81.2-82.5	103.-105	3-4	4-5
DATE COLLECTED:	20-JUL-91	23-JUL-91	25-JUL-91	15-MAY-91	15-MAY-91
NORTH COORDINATE:	480412.98	480412.98	480412.98	480402.83	480402.83
EAST COORDINATE:	1378593.22	1378593.22	1378593.22	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				28.30 %		NV	12.50 %		NV	22.40 %		NV	17.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U												
2,4-D	10.00 UG/L		U												
INORGANICS															
ARSENIC	0.05 MG/L		UR												
BARIUM	0.65 MG/L		R												
CADMIUM	0.01 MG/L		R												
CHROMIUM	0.09 MG/L		R												
LEAD	0.09 MG/L		R												
MERCURY	0.00 MG/L		UR												
SELENIUM	0.11 MG/L		R												
SILVER	0.09 MG/L		R												
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		U												
PESTICIDES															
ALPHA-CHLORDANE	1.00 UG/L		U												
ENDRIN	0.10 UG/L		UR												
GAMMA-BHC (LINDANE)	0.05 UG/L		UR												
GAMMA-CHLORDANE	0.50 UG/L		UR												
HEPTACHLOR	0.05 UG/L		UR												
HEPTACHLOR EPOXIDE	0.10 UG/L		U												

SAMPLE NUMBER:	064068			064079			064085			099461			099462		
LAB:	IT														
SUFFIX/FILTERFLAG:	DL-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR	1.00 UG/L		U												
TOXAPHENE	1.00 UG/L		UR												
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UR												
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UR												
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UR												
2,4-DINITROTOLUENE	20.00 UG/L		UR												
2-METHYLPHENOL	20.00 UG/L		UR												
4-METHYLPHENOL	20.00 UG/L		UR												
HEXACHLOROBENZENE	20.00 UG/L		UR												
HEXACHLOROBUTADIENE	20.00 UG/L		UR												
HEXACHLOROETHANE	20.00 UG/L		UR												
NITROBENZENE	20.00 UG/L		UR												
PENTACHLOROPHENOL	100.00 UG/L		UR												
PYRIDINE	20.00 UG/L		U												
VOLATILES															
1,1-DICHLOROETHENE	20.00 UG/L		UR												
1,2-DICHLOROETHANE	20.00 UG/L		UR												
2-BUTANONE	40.00 UG/L		UR												
BENZENE	20.00 UG/L		UR												
CARBON TETRACHLORIDE	20.00 UG/L		UR												
CHLOROBENZENE	20.00 UG/L		UR												
CHLOROFORM	20.00 UG/L		UR												
TETRACHLOROETHENE	20.00 UG/L		UR												
TRICHLOROETHENE	20.00 UG/L		UR												
VINYL CHLORIDE	40.00 UG/L		UR												

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099468	099483	099484	099489	099493
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1620	1620	1620	1620	1620
DEPTH:	-5	15-16	16-17	-16	-16
DATE COLLECTED:	15-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480402.83
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	18.00 %		NV	22.30 %		NV	18.00 %		NV			
VOLATILES															
1,1-DICHLOROETHENE													5.00 UG/L		U
1,2-DICHLOROETHANE													5.00 UG/L		U
2-BUTANONE													10.00 UG/L		UJ
BENZENE													5.00 UG/L		U
CARBON TETRACHLORIDE													5.00 UG/L		U
CHLOROBENZENE													5.00 UG/L		U
CHLOROFORM													5.00 UG/L		U
TETRACHLOROETHENE													2.00 UG/L		J
TRICHLOROETHENE													5.00 UG/L		U
VINYL CHLORIDE													10.00 UG/L		U

000356

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099495	099496	099501	099517	099530
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1620	1620	1620	1620	1621
DEPTH:	-16	-16	22-23	-21	2-3
DATE COLLECTED:	16-MAY-91	16-MAY-91	17-MAY-91	17-MAY-91	21-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480517.8
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							22.50 %		NV	18.00 %		NV	24.10 %		NV
INORGANICS															
ARSENIC				0.25 MG/L		U									
BARIUM				1.57 MG/L		-									
CADMIUM				11.40 MG/L		-									
CHROMIUM				81.80 MG/L		-									
LEAD				0.20 MG/L		U									
MERCURY				0.00 MG/L		U									
SELENIUM				0.40 MG/L		U									
SILVER				112.00 MG/L		-									
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UJ												
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UJ												
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UJ												
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UJ												
2,4-DINITROTOLUENE	20.00 UG/L		UJ												
2-METHYLPHENOL	20.00 UG/L		UJ												
4-METHYLPHENOL	20.00 UG/L		UJ												
HEXACHLOROBENZENE	20.00 UG/L		UJ												
HEXACHLOROBUTADIENE	20.00 UG/L		UJ												
HEXACHLOROETHANE	20.00 UG/L		UJ												
NITROBENZENE	20.00 UG/L		UJ												
PENTACHLOROPHENOL	100.00 UG/L		UJ												

SAMPLE NUMBER:	099495			099496			099501			099517			099530		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PYRIDINE	20.00 UG/L		UJ												

000358

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099533	099541	099558	099562	099563
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	5-6	-6	-6	-6	-6
DATE COLLECTED:	21-MAY-91	21-MAY-91	22-MAY-91	22-MAY-91	22-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	17.00 %		NV	19.00 %		NV						
INORGANICS															
ARSENIC													0.25 MG/L		UJ
BARIUM													0.71 MG/L		J
CADMIUM													0.01 MG/L		UJ
CHROMIUM													0.08 MG/L		J
LEAD													0.20 MG/L		UJ
MERCURY													0.00 MG/L		UJ
SELENIUM													0.40 MG/L		UJ
SILVER													0.11 MG/L		UJ
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		UJ			
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		UJ			
2,4,5-TRICHLOROPHENOL										100.00 UG/L		UJ			
2,4,6-TRICHLOROPHENOL										20.00 UG/L		UJ			
2,4-DINITROTOLUENE										20.00 UG/L		UJ			
2-METHYLPHENOL										20.00 UG/L		UJ			
4-METHYLPHENOL										20.00 UG/L		UJ			
HEXACHLOROBENZENE										20.00 UG/L		UJ			
HEXACHLOROBUTADIENE										20.00 UG/L		UJ			
HEXACHLOROETHANE										20.00 UG/L		UJ			
NITROBENZENE										20.00 UG/L		UJ			
PENTACHLOROPHENOL										5.00 UG/L		J			

SAMPLE NUMBER:	099533			099541			099558			099562			099563		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PYRIDINE										20.00 UG/L		UJ			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099579	099548	099550	099572	099573
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	-6	13-14	15-16	25-26	26-27
DATE COLLECTED:	23-MAY-91	22-MAY-91	22-MAY-91	23-MAY-91	22-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	18.00 %		NV	16.00 %		NV	20.00 %		NV	22.00 %		NV
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U						
1,2-DICHLOROETHANE							5.00 UG/L		U						
2-BUTANONE							10.00 UG/L		U						
BENZENE							5.00 UG/L		U						
CARBON TETRACHLORIDE							5.00 UG/L		U						
CHLOROBENZENE							5.00 UG/L		U						
CHLOROFORM							5.00 UG/L		U						
TETRACHLOROETHENE							5.00 UG/L		U						
TRICHLOROETHENE							5.00 UG/L		U						
VINYL CHLORIDE							10.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099588	099590	099593	099600	099602
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1622	1622	1622	1622	1622
DEPTH:	0-1	2-3	0-10	13-14	15-16
DATE COLLECTED:	29-MAY-91	29-MAY-91	29-MAY-91	30-MAY-91	30-MAY-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	24.80 %		NV	17.00 %		NV				14.00 %		NV
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U			
1,2-DICHLOROETHANE										5.00 UG/L		U			
2-BUTANONE										6.00 UG/L		J			
BENZENE										5.00 UG/L		U			
CARBON TETRACHLORIDE										5.00 UG/L		U			
CHLOROBENZENE										5.00 UG/L		U			
CHLOROFORM										5.00 UG/L		U			
TETRACHLOROETHENE										5.00 UG/L		U			
TRICHLOROETHENE										5.00 UG/L		U			
VINYL CHLORIDE										10.00 UG/L		U			

000362

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099603	099608	099612	099617	099619
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1622	1622	1622	1622	1622
DEPTH:	16-17	10-20	10-20	23-24	25-26
DATE COLLECTED:	30-MAY-91	30-MAY-91	30-MAY-91	30-MAY-91	31-MAY-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.10 %		NV	14.00 %		NV				23.40 %		NV	18.00 %		NV
INORGANICS															
ARSENIC							0.25 MG/L		U						
BARIUM							1.18 MG/L		-						
CADMIUM							0.01 MG/L		U						
CHROMIUM							0.09 MG/L		-						
LEAD							0.20 MG/L		U						
MERCURY							0.00 MG/L		U						
SELENIUM							0.40 MG/L		U						
SILVER							0.12 MG/L		-						
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		U						
SEMIVOLATILES															
1,4-DICHLOROBENZENE							20.00 UG/L		U						
2,4,5-TRICHLOROPHENOL							100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL							20.00 UG/L		U						
2,4-DINITROTOLUENE							20.00 UG/L		U						
2-METHYLPHENOL							20.00 UG/L		U						
4-METHYLPHENOL							20.00 UG/L		U						
HEXACHLOROBENZENE							20.00 UG/L		U						
HEXACHLOROBUTADIENE							20.00 UG/L		U						
HEXACHLOROETHANE							20.00 UG/L		U						
NITROBENZENE							20.00 UG/L		U						
PENTACHLOROPHENOL							6.00 UG/L		J						

000363

5204

SAMPLE NUMBER:	099603			099608			099612			099617			099619		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PYRIDINE							20.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099625	099634	099653	099654	099660
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1622	1623	1623	1623	1623
DEPTH:	20-30	-6	-15	-16	-16
DATE COLLECTED:	31-MAY-91	03-JUN-91	04-JUN-91	04-JUN-91	04-JUN-91
NORTH COORDINATE:	480401.61	480515.1	480515.1	480515.1	480515.1
EAST COORDINATE:	1378528.95	1378532.07	1378532.07	1378532.07	1378532.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	16.80 %		NV	26.80 %		NV	17.00 %		NV	17.00 %		NV
VOLATILES															
1,1,1-TRICHLOROETHANE										6000.00 UG/L		U			
1,1,2,2-TETRACHLOROETHANE										6000.00 UG/L		U			
1,1,2-TRICHLOROETHANE										6000.00 UG/L		U			
1,1-DICHLOROETHANE										6000.00 UG/L		U			
1,1-DICHLOROETHENE										6000.00 UG/L		U			
1,2-DICHLOROETHANE										6000.00 UG/L		U			
1,2-DICHLOROETHENE (TOTAL)										6000.00 UG/L		U			
1,2-DICHLOROPROPANE										6000.00 UG/L		U			
2-BUTANONE										12000.00 UG/L		U			
2-HEXANONE										12000.00 UG/L		U			
4-METHYL-2-PENTANONE										12000.00 UG/L		U			
ACETONE										13000.00 UG/L		R			
BENZENE										6000.00 UG/L		U			
BROMODICHLOROMETHANE										6000.00 UG/L		U			
BROMOFORM										6000.00 UG/L		U			
BROMOMETHANE										12000.00 UG/L		UJ			
CARBON DISULFIDE										6000.00 UG/L		UJ			
CARBON TETRACHLORIDE										6000.00 UG/L		U			
CHLOROBENZENE										6000.00 UG/L		U			
CHLOROETHANE										12000.00 UG/L		U			
CHLOROFORM										6000.00 UG/L		U			
CHLOROMETHANE										12000.00 UG/L		UJ			
CIS-1,3-DICHLOROPROPENE										6000.00 UG/L		U			
DIBROMOCHLOROMETHANE										6000.00 UG/L		U			
ETHYLBENZENE										6000.00 UG/L		U			
METHYLENE CHLORIDE										6000.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099625			099634			099653			099654			099660		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
STYRENE										6000.00 UG/L		U			
TETRACHLOROETHENE										6000.00 UG/L		U			
TOLUENE										6000.00 UG/L		J			
TRANS-1,3-DICHLOROPROPENE										6000.00 UG/L		U			
TRICHLOROETHENE										6000.00 UG/L		U			
VINYL ACETATE										12000.00 UG/L		U			
VINYL CHLORIDE										12000.00 UG/L		U			
XYLENES, TOTAL										6000.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099663	099669	099676	000837	033354
TASK:	40.03.02	40.03.02	40.03.02	50.03.04	3.2
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1623	1623	1623	1643	1643
DEPTH:	-16	-24	-24	-	-
DATE COLLECTED:	04-JUN-91	05-JUN-91	05-JUN-91	11-AUG-91	08-NOV-90
NORTH COORDINATE:	480515.1	480515.1	480515.1	481890.76	481890.76
EAST COORDINATE:	1378532.07	1378532.07	1378532.07	1378724.03	1378724.03
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				17.00 %		NV	17.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										17.00 UG/L		U	2.00 UG/L		U
2,4-D										120.00 UG/L		U	13.00 UG/L		U
INORGANICS															
ARSENIC	2.50 MG/L		U							0.05 MG/L		U	0.18 MG/L		U
BARIUM	1.22 MG/L		-							1.03 MG/L		U	0.67 MG/L		-
CADMIUM	0.01 MG/L		U							0.00 MG/L		U	0.00 MG/L		U
CHROMIUM	0.05 MG/L		-							0.00 MG/L		U	0.01 MG/L		U
LEAD	0.20 MG/L		U							0.04 MG/L		U	0.04 MG/L		U
MERCURY	0.00 MG/L		U							0.00 MG/L		U	0.00 MG/L		U
SELENIUM	0.40 MG/L		U							0.07 MG/L		U	0.15 MG/L		U
SILVER	0.10 MG/L		-							0.00 MG/L		U	0.01 MG/L		-
No sort code listed.															
3-METHYLPHENOL	10.00 UG/L		U												
PESTICIDES															
ALPHA-CHLORDANE													0.50 UG/L		U
CHLORDANE										0.70 UG/L		U	1.00 UG/L		U
ENDRIN										0.30 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)										0.20 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE													0.50 UG/L		U
HEPTACHLOR										0.15 UG/L		U	0.05 UG/L		U

000367

5704

SAMPLE NUMBER:	099663			099669			099676			000837			033354		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE										4.20 UG/L		U	0.05 UG/L		U
METHOXYCHLOR										8.80 UG/L		U	0.50 UG/L		U
TOXAPHENE										12.00 UG/L		U	1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE	10.00 UG/L		U												
2,4,5-TRICHLOROPHENOL	50.00 UG/L		U												
2,4,6-TRICHLOROPHENOL	10.00 UG/L		U												
2,4-DINITROTOLUENE	10.00 UG/L		U												
2-METHYLPHENOL	10.00 UG/L		U												
4-METHYLPHENOL	10.00 UG/L		U												
HEXACHLOROBENZENE	10.00 UG/L		U												
HEXACHLOROBUTADIENE	10.00 UG/L		U												
HEXACHLOROETHANE	10.00 UG/L		U												
NITROBENZENE	10.00 UG/L		U												
PENTACHLOROPHENOL	50.00 UG/L		U												
PYRIDINE	10.00 UG/L		U												
VOLATILES															
1,1-DICHLOROETHENE										50.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE										50.00 UG/L		U	5.00 UG/L		U
2-BUTANONE										100.00 UG/L		U	10.00 UG/L		U
BENZENE										50.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE										50.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE										50.00 UG/L		U	5.00 UG/L		U
CHLOROFORM										50.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE										50.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE										50.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE										100.00 UG/L		U	10.00 UG/L		U

000368

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	033216	033060	033041	057002	057006
TASK:	3.2	3.2	3.2	3.7	3.7
LAB:	IT	IT	IT-KNOX	IT	IT
WELL OR BORING NUMBER:	1644	1645	1646	1669	1671
DEPTH:	-	-	-	0-.5	0-.5
DATE COLLECTED:	08-OCT-90	13-SEP-90	09-SEP-90	04-DEC-90	04-DEC-90
NORTH COORDINATE:	481616.21	481583.25	481743.08	482657.08	482611.28
EAST COORDINATE:	1378641.29	1379060.26	1379094.86	1380738.52	1380736.91
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE										12.00 %		NV	19.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		UJ	2.00 UG/L		U	2.00 UG/L		U						
2,4-D	12.50 UG/L		UJ	13.00 UG/L		U	12.00 UG/L		U						
INORGANICS															
ARSENIC	0.25 MG/L		U	0.09 MG/L		U	0.11 MG/L		U						
BARIUM	1.59 MG/L		J	1.08 MG/L		-	1.20 MG/L		-						
CADMIUM	0.02 MG/L		J	0.01 MG/L		U	0.00 MG/L		-						
CHROMIUM	0.05 MG/L		J	0.01 MG/L		U	0.01 MG/L		U						
LEAD	0.79 MG/L		J	0.04 MG/L		U	0.04 MG/L		U						
MERCURY	0.00 MG/L		UJ	0.00 MG/L		U	0.00 MG/L		U						
SELENIUM	0.16 MG/L		U	0.08 MG/L		U	0.11 MG/L		U						
SILVER	0.02 MG/L		J	0.01 MG/L		U	0.01 MG/L		U						
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		U						
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		UJ												
CHLORDANE	1.00 UG/L		UJ	0.60 UG/L		U	0.50 UG/L		U						
ENDRIN	0.10 UG/L		UJ	0.10 UG/L		U	0.10 UG/L		U						
GAMMA-BHC (LINDANE)	0.05 UG/L		UJ	0.06 UG/L		U	0.05 UG/L		U						
GAMMA-CHLORDANE	0.50 UG/L		UJ												
HEPTACHLOR	0.05 UG/L		UJ	0.06 UG/L		U	0.05 UG/L		U						

SAMPLE NUMBER:	033216			033060			033041			057002			057006		
LAB:	IT			IT			IT-KNOX								
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE	0.05 UG/L		UJ	0.06 UG/L		U	0.05 UG/L		U						
METHOXYCHLOR	0.50 UG/L		UJ	0.60 UG/L		U	0.50 UG/L		U						
TOXAPHENE	1.00 UG/L		UJ	1.00 UG/L		U	1.00 UG/L		U						
SEMIVOLATILES															
1,4-DICHLOROBENZENE				11.00 UG/L		U	20.00 UG/L		U						
2,4,5-TRICHLOROPHENOL				56.00 UG/L		U	100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL				11.00 UG/L		U	20.00 UG/L		U						
2,4-DINITROTOLUENE				11.00 UG/L		U	20.00 UG/L		U						
2-METHYLPHENOL							20.00 UG/L		U						
4-METHYLPHENOL							20.00 UG/L		U						
HEXACHLOROBENZENE				11.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROBUTADIENE				11.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROETHANE				11.00 UG/L		U	20.00 UG/L		U						
NITROBENZENE				11.00 UG/L		U	20.00 UG/L		U						
PENTACHLOROPHENOL				56.00 UG/L		U	100.00 UG/L		U						
PYRIDINE				11.00 UG/L		U	20.00 UG/L		U						
TOTAL METHYLPHENOL				11.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U						
2-BUTANONE				3.00 UG/L		U	10.00 UG/L		U						
BENZENE				5.00 UG/L		U	5.00 UG/L		U						
CARBON TETRACHLORIDE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROFORM				5.00 UG/L		U	5.00 UG/L		U						
TETRACHLOROETHENE				2.00 UG/L		U	5.00 UG/L		U						
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
VINYL CHLORIDE				10.00 UG/L		U	10.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057008	057010	057527	057493	057497
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT-KNOX	IT	IT
WELL OR BORING NUMBER:	1672	1673	1674	1674	1674
DEPTH:	0-.5	0-.5	-	4-4.5	6-6.5
DATE COLLECTED:	04-DEC-90	04-DEC-90	20-DEC-90	16-DEC-90	16-DEC-90
NORTH COORDINATE:	482590.12	482584.41	479899.84	479899.84	479899.84
EAST COORDINATE:	1380737.23	1380757.21	1379930.97	1379930.97	1379930.97
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	DL-NA	R-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	39.00 %		NV	17.00 UG/KG		NV				11.00 %		NV	18.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)							3.60 UG/L		U						
2,4-D							24.00 UG/L		U						
INORGANICS															
ARSENIC							0.25 MG/L		U						
BARIUM							1.07 MG/L		-						
CADMIUM							0.01 MG/L		-						
CHROMIUM							0.15 MG/L		-						
LEAD							0.20 MG/L		U						
MERCURY							0.00 MG/L		U						
SELENIUM							0.40 MG/L		U						
SILVER							0.15 MG/L		-						
PESTICIDES															
ALPHA-CHLORDANE							1.00 UG/L		U						
ENDRIN							0.20 UG/L		U						
GAMMA-BHC (LINDANE)							0.10 UG/L		U						
GAMMA-CHLORDANE							1.00 UG/L		U						
HEPTACHLOR							0.10 UG/L		U						
HEPTACHLOR EPOXIDE							0.10 UG/L		U						
METHOXYCHLOR							1.00 UG/L		U						
TOXAPHENE							2.00 UG/L		U						

VOLATILES

1,1-DICHLOROETHENE 5.00 UG/L UJ
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057008			057010			057527			057493			057497		
LAB:							IT-KNOX								
SUFFIX/FILTERFLAG:	-			-			R-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHANE							5.00 UG/L		UJ						
2-BUTANONE							10.00 UG/L		UJ						
BENZENE							5.00 UG/L		UJ						
CARBON TETRACHLORIDE							5.00 UG/L		UJ						
CHLOROBENZENE							5.00 UG/L		UJ						
CHLOROFORM							5.00 UG/L		UJ						
TETRACHLOROETHENE							460.00 UG/L		R						
TRICHLOROETHENE							5.00 UG/L		UJ						
VINYL CHLORIDE							10.00 UG/L		UJ						

000372

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057508	057518	057520	057529	057571
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1674	1674	1674	1675	1676
DEPTH:	11.5-12	16.5-17	17.5-18	-	-
DATE COLLECTED:	17-DEC-90	18-DEC-90	18-DEC-90	09-MAR-91	09-MAR-91
NORTH COORDINATE:	479899.84	479899.84	479899.84	481182.8	481187.51
EAST COORDINATE:	1379930.97	1379930.97	1379930.97	1381060.63	1380979.41
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	11.00 %		NV									
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		UNV	1.80 UG/L		U
2,4-D										12.00 UG/L		UNV	12.00 UG/L		U
INORGANICS															
ARSENIC										0.33 MG/L		NV	0.45 MG/L		-
BARIUM										0.78 MG/L		NV	0.83 MG/L		-
CADMIUM										0.02 MG/L		NV	0.02 MG/L		-
CHROMIUM										0.08 MG/L		NV	0.08 MG/L		-
LEAD										0.20 MG/L		UNV	0.20 MG/L		U
MERCURY										0.00 MG/L		UNV	0.00 MG/L		U
SELENIUM										0.40 MG/L		UNV	0.40 MG/L		U
SILVER										0.16 MG/L		NV	0.16 MG/L		-
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		UNV	20.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		UNV	0.50 UG/L		U
ENDRIN										0.10 UG/L		UNV	0.10 UG/L		U
GAMMA-BHC (LINDANE)										0.05 UG/L		UNV	0.05 UG/L		U
GAMMA-CHLORDANE										0.50 UG/L		UNV	0.50 UG/L		U
HEPTACHLOR										0.05 UG/L		UNV	0.05 UG/L		U
HEPTACHLOR EPOXIDE										0.05 UG/L		UNV	0.05 UG/L		U

SAMPLE NUMBER:	057508			057518			057520			057529			057571		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR										0.50 UG/L		UNV	0.50 UG/L		U
TOXAPHENE										1.00 UG/L		UNV	1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		UNV	20.00 UG/L		U
2,4,5-TRICHLOROPHENOL										100.00 UG/L		UNV	100.00 UG/L		U
2,4,6-TRICHLOROPHENOL										20.00 UG/L		UNV	20.00 UG/L		U
2,4-DINITROTOLUENE										20.00 UG/L		UNV	20.00 UG/L		UJ
2-METHYLPHENOL										20.00 UG/L		UNV	20.00 UG/L		U
4-METHYLPHENOL										20.00 UG/L		UNV	20.00 UG/L		U
HEXACHLOROBENZENE										20.00 UG/L		UNV	20.00 UG/L		U
HEXACHLOROBUTADIENE										20.00 UG/L		UNV	20.00 UG/L		U
HEXACHLOROETHANE										20.00 UG/L		UNV	20.00 UG/L		UJ
NITROBENZENE										20.00 UG/L		UNV	20.00 UG/L		U
PENTACHLOROPHENOL										100.00 UG/L		UNV	100.00 UG/L		UJ
PYRIDINE										20.00 UG/L		UNV	20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U	5.00 UG/L		UNV	5.00 UG/L		U
1,2-DICHLOROETHANE							5.00 UG/L		U	5.00 UG/L		UNV	5.00 UG/L		U
2-BUTANONE							10.00 UG/L		U	10.00 UG/L		UNV	5.00 UG/L		R
BENZENE							5.00 UG/L		U	5.00 UG/L		UNV	5.00 UG/L		U
CARBON TETRACHLORIDE							5.00 UG/L		U	5.00 UG/L		UNV	5.00 UG/L		UJ
CHLOROBENZENE							5.00 UG/L		U	5.00 UG/L		UNV	5.00 UG/L		U
CHLOROFORM							5.00 UG/L		U	5.00 UG/L		UNV	5.00 UG/L		U
TETRACHLOROETHENE							71.00 UG/L		-	5.00 UG/L		UNV	1.00 UG/L		J
TRICHLOROETHENE							3.00 UG/L		J	5.00 UG/L		UNV	5.00 UG/L		UJ
VINYL CHLORIDE							10.00 UG/L		U	10.00 UG/L		UNV	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057532			057535			057539			057550			057560		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1676			1676			1676			1676			1676		
DEPTH:	.5-1			2-2.5			4-4.5			9.5-10			14.5-15		
DATE COLLECTED:	08-MAR-91			08-MAR-91			09-MAR-91			09-MAR-91			10-MAR-91		
NORTH COORDINATE:	481187.51			481187.51			481187.51			481187.51			481187.51		
EAST COORDINATE:	1380979.41			1380979.41			1380979.41			1380979.41			1380979.41		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			R-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	9.00 % MOISTURE		NV	19.00 %		NV	9.00 % MOISTURE		NV	10.00 %		NV	9.00 % MOISTURE		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	100422	067114	067115	067116	067118
TASK:	03.01.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1679	1708	1708	1708	1708
DEPTH:	0-.5	-	-	-	-
DATE COLLECTED:	27-JAN-92	17-JUN-91	17-JUN-91	17-JUN-91	17-JUN-91
NORTH COORDINATE:	483924.53	477710.64	477710.64	477710.64	477710.64
EAST COORDINATE:	1378264.61	1379166.88	1379166.88	1379166.88	1379166.88
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV												
ALKALINITY AS CACO3										60.00 MG/L		-			
AMMONIA										0.10 MG/L		U			
CHLORIDE										1.52 MG/L		J			
FLUORIDE										1.00 MG/L		J			
NITRATE										0.63 MG/L		J			
PH										8.79 SU		-			
PHOSPHATE										0.02 MG/L		U			
SULFATE										7.40 MG/L		J			
TOTAL ORGANIC CARBON										1.74 MG/L		-			
TOTAL ORGANIC NITROGEN										0.10 MG/L		U			
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U	1.80 UG/L		U						
2,4-D				10.00 UG/L		U	10.00 UG/L		U						
INORGANICS															
ALUMINUM										0.24 MG/L		-			
ANTIMONY										0.03 MG/L		U			
ARSENIC				0.07 MG/L		-	0.10 MG/L		-	0.01 MG/L		-	0.05 MG/L		UJ
BARIUM				1.06 MG/L		J	1.28 MG/L		J	0.25 MG/L		-	0.16 MG/L		JB
BERYLLIUM										0.00 MG/L		U			
CADMIUM				0.01 MG/L		J	0.01 MG/L		J	0.00 MG/L		U	0.01 MG/L		JB
CALCIUM										20.50 MG/L		-			
CHROMIUM				0.04 MG/L		-	0.09 MG/L		-	0.01 MG/L		-	0.08 MG/L		JB
COBALT										0.01 MG/L		U			
COPPER										0.01 MG/L		U			
IRON										0.07 MG/L		-			

000396

SAMPLE NUMBER:	100422			067114			067115			067116			067118		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
LEAD				0.05 MG/L		-	0.08 MG/L		-	0.00 MG/L		-	0.10 MG/L		JB
MAGNESIUM										2.61 MG/L		-			
MANGANESE										0.00 MG/L		U			
MERCURY				0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
MOLYBDENUM										0.02 MG/L		-			
NICKEL										0.02 MG/L		U			
POTASSIUM										0.88 MG/L		-			
SELENIUM				0.10 MG/L		-	0.19 MG/L		-	0.08 MG/L		U	0.11 MG/L		JB
SILICON										2.34 MG/L		-			
SILVER				0.03 MG/L		-	0.08 MG/L		-	0.01 MG/L		U	0.07 MG/L		JB
SODIUM										1.79 MG/L		-			
THALLIUM										0.15 MG/L		U			
VANADIUM										0.02 MG/L		-			
ZINC										0.10 MG/L		-			
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		UR						
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U						
ENDRIN				0.10 UG/L		U	0.10 UG/L		U						
GAMMA-BHC (LINDANE)				0.05 UG/L		U	0.05 UG/L		U						
GAMMA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U						
HEPTACHLOR				0.05 UG/L		U	0.05 UG/L		U						
HEPTACHLOR EPOXIDE				0.05 UG/L		U	0.05 UG/L		U						
METHOXYCHLOR				0.50 UG/L		U	0.50 UG/L		U						
TOXAPHENE				1.00 UG/L		U	1.00 UG/L		U						
RADIONUCLIDES															
RADIUM-226										1.00 PCI/L		UJ			
RADIUM-228										3.62 PCI/L	2.64	UJ			
NEPTUNIUM-237										1.00 PCI/L		U			
PLUTONIUM-239/240										1.00 PCI/L		U			
PLUTONIUM-238										1.00 PCI/L		U			
STRONTIUM-90										5.00 PCI/L		R			
TECHNETIUM-99										30.00 PCI/L		U			
RUTHENIUM-106										150.00 PCI/L		R			
CESIUM-137										20.00 PCI/L		R			
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		UR						

000379

5204

SAMPLE NUMBER:	100422			067114			067115			067116			067118		
LAB:				IT			IT								
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U	120.00 UG/L		UR						
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U	25.00 UG/L		UR						
2,4-DINITROTOLUENE				20.00 UG/L		U	20.00 UG/L		UR						
2-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		UR						
4-METHYLPHENOL				20.00 UG/L		U	25.00 UG/L		UR						
HEXACHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		UR						
HEXACHLOROBUTADIENE				20.00 UG/L		U	25.00 UG/L		UR						
HEXACHLOROETHANE				20.00 UG/L		U	25.00 UG/L		UR						
NITROBENZENE				20.00 UG/L		U	25.00 UG/L		UR						
PENTACHLOROPHENOL				100.00 UG/L		U	120.00 UG/L		UR						
PYRIDINE				20.00 UG/L		U	25.00 UG/L		UR						
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U						
2-BUTANONE				1.00 UG/L		J	2.00 UG/L		J						
BENZENE				5.00 UG/L		U	5.00 UG/L		U						
CARBON TETRACHLORIDE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROFORM				5.00 UG/L		U	5.00 UG/L		U						
TETRACHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
VINYL CHLORIDE				10.00 UG/L		U	10.00 UG/L		U						

000378

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067096	067097	067098	067099	067119
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1708	1708	1708	1708	1708
DEPTH:	7.5-9	9-10.5	10.5-12	12-13.5	9-12
DATE COLLECTED:	14-JUN-91	15-JUN-91	15-JUN-91	16-JUN-91	17-JUN-91
NORTH COORDINATE:	477710.64	477710.64	477710.64	477710.64	477710.64
EAST COORDINATE:	1379166.88	1379166.88	1379166.88	1379166.88	1379166.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.00 %		NV	22.10 %		-	22.10 %		NV				30.30 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)										2.10 UG/L		U			
2,4-D										11.00 UG/L		U			
INORGANICS															
ARSENIC										0.08 MG/L		J			
BARIUM										1.91 MG/L		-			
CADMIUM										0.01 MG/L		J			
CHROMIUM										0.07 MG/L		-			
LEAD										0.10 MG/L		-			
MERCURY										0.00 MG/L		U			
SELENIUM										0.18 MG/L		-			
SILVER										0.05 MG/L		-			
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		U			
ENDRIN										0.10 UG/L		U			
GAMMA-BHC (LINDANE)										0.05 UG/L		U			
GAMMA-CHLORDANE										0.50 UG/L		U			
HEPTACHLOR										0.05 UG/L		U			
HEPTACHLOR EPOXIDE										0.05 UG/L		U			

000379

8704

SAMPLE NUMBER:	067096			067097			067098			067099			067119		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR										0.50 UG/L		U			
TOXAPHENE										1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		U			
2,4,5-TRICHLOROPHENOL										100.00 UG/L		U			
2,4,6-TRICHLOROPHENOL										20.00 UG/L		U			
2,4-DINITROTOLUENE										20.00 UG/L		U			
2-METHYLPHENOL										20.00 UG/L		U			
4-METHYLPHENOL										20.00 UG/L		U			
HEXACHLOROBENZENE										20.00 UG/L		U			
HEXACHLOROBUTADIENE										20.00 UG/L		U			
HEXACHLOROETHANE										20.00 UG/L		U			
NITROBENZENE										20.00 UG/L		U			
PENTACHLOROPHENOL										100.00 UG/L		U			
PYRIDINE										20.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067102	067112	067064	067065	067071
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1708	1708	1709	1709	1709
DEPTH:	16.5-18	31.5-33	7.5-9	9-10.5	13.5-15
DATE COLLECTED:	16-JUN-91	16-JUN-91	06-JUN-91	06-JUN-91	06-JUN-91
NORTH COORDINATE:	477710.64	477710.64	477814.23	477814.23	477814.23
EAST COORDINATE:	1379166.88	1379166.88	1378969.43	1378969.43	1378969.43
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	23.00 %		NV	19.00 %		NV	23.00 %		NV				22.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		U			
2,4-D										12.00 UG/L		U			
INORGANICS															
ARSENIC										0.08 MG/L		-			
BARIUM										1.61 MG/L		-			
CADMIUM										0.00 MG/L		U			
CHROMIUM										0.01 MG/L		U			
LEAD										0.04 MG/L		U			
MERCURY										0.00 MG/L		U			
SELENIUM										0.09 MG/L		-			
SILVER										0.01 MG/L		U			
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		U			
ENDRIN										0.10 UG/L		U			
GAMMA-BHC (LINDANE)										0.05 UG/L		U			
GAMMA-CHLORDANE										0.50 UG/L		U			
HEPTACHLOR										0.05 UG/L		U			
HEPTACHLOR EPOXIDE										0.05 UG/L		U			

000381

5704

SAMPLE NUMBER:	067102			067112			067064			067065			067071		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR										0.50 UG/L		U			
TOXAPHENE										1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		U			
2,4,5-TRICHLOROPHENOL										100.00 UG/L		U			
2,4,6-TRICHLOROPHENOL										20.00 UG/L		U			
2,4-DINITROTOLUENE										20.00 UG/L		U			
2-METHYLPHENOL										20.00 UG/L		U			
4-METHYLPHENOL										20.00 UG/L		U			
HEXACHLOROBENZENE										20.00 UG/L		U			
HEXACHLOROBUTADIENE										20.00 UG/L		U			
HEXACHLOROETHANE										20.00 UG/L		U			
NITROBENZENE										20.00 UG/L		U			
PENTACHLOROPHENOL										8.00 UG/L		J			
PYRIDINE										20.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U			
1,2-DICHLOROETHANE										5.00 UG/L		U			
2-BUTANONE										10.00 UG/L		U			
BENZENE										5.00 UG/L		U			
CARBON TETRACHLORIDE										5.00 UG/L		U			
CHLOROBENZENE										5.00 UG/L		U			
CHLOROFORM										5.00 UG/L		U			
TETRACHLOROETHENE										5.00 UG/L		U			
TRICHLOROETHENE										5.00 UG/L		U			
VINYL CHLORIDE										10.00 UG/L		U			

000388

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067050	067051	067058	067029	067032
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1710	1710	1710	1710	1710
DEPTH:	-	-	-	4.5-5	9-10.5
DATE COLLECTED:	01-JUN-91	01-JUN-91	02-JUN-91	31-MAY-91	31-MAY-91
NORTH COORDINATE:	477931.49	477931.49	477931.49	477931.49	477931.49
EAST COORDINATE:	1378993.33	1378993.33	1378993.33	1378993.33	1378993.33
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	R-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE										28.00 %		NV	25.00 %		NV
ALKALINITY AS CACO3	75.00 MG/L		-												
AMMONIA	0.10 MG/L		U												
CHLORIDE	1.78 MG/L		-												
FLUORIDE	0.68 MG/L		-												
NITRATE	0.10 MG/L		U												
PH	8.58 SU		-												
PHOSPHATE	0.02 MG/L		U												
SULFATE	24.90 MG/L		-												
TOTAL ORGANIC CARBON	2.11 MG/L		-												
TOTAL ORGANIC NITROGEN	0.10 MG/L		U												
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U	1.80 UG/L		U						
2,4-D				12.00 UG/L		U	12.00 UG/L		U						
INORGANICS															
ALUMINUM	0.38 MG/L		-												
ANTIMONY	0.08 MG/L		-												
ARSENIC	0.00 MG/L		-	0.14 MG/L		JB	0.13 MG/L		JB						
BARIUM	0.62 MG/L		-	1.44 MG/L		JB	0.81 MG/L		JB						
BERYLLIUM	0.00 MG/L		U												
CADMIUM	0.00 MG/L		U	0.00 MG/L		JB	0.00 MG/L		JB						
CALCIUM	23.10 MG/L		-												
CHROMIUM	0.01 MG/L		-	0.02 MG/L		U	0.04 MG/L		JB						
COBALT	0.01 MG/L		U												
COPPER	0.01 MG/L		U												
IRON	0.23 MG/L		-												

000383

57704

SAMPLE NUMBER:	067050			067051			067058			067029			067032		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
LEAD	0.01 MG/L		-	0.08 MG/L		U	0.05 MG/L		JB						
MAGNESIUM	5.06 MG/L		-												
MANGANESE	0.00 MG/L		U												
MERCURY	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		UJ						
MOLYBDENUM	0.02 MG/L		-												
NICKEL	0.02 MG/L		U												
POTASSIUM	3.77 MG/L		-												
SELENIUM	0.00 MG/L		-	0.16 MG/L		U	0.13 MG/L		-						
SILICON	4.52 MG/L		-												
SILVER	0.01 MG/L		U	0.04 MG/L		JB	0.03 MG/L		-						
SODIUM	4.88 MG/L		-												
THALLIUM	0.00 MG/L		U												
VANADIUM	0.01 MG/L		U												
ZINC	0.03 MG/L		-												
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U						
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U						
ENDRIN				0.10 UG/L		U	0.10 UG/L		U						
GAMMA-BHC (LINDANE)				0.05 UG/L		U	0.05 UG/L		U						
GAMMA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U						
HEPTACHLOR				0.05 UG/L		U	0.05 UG/L		U						
HEPTACHLOR EPOXIDE				0.05 UG/L		U	0.05 UG/L		U						
METHOXYCHLOR				0.50 UG/L		U	0.50 UG/L		U						
TOXAPHENE				1.00 UG/L		U	1.00 UG/L		U						
RADIONUCLIDES															
URANIUM-238	139.00 PCI/L	19	J												
URANIUM, TOTAL	0.00 MG/KG		J												
URANIUM-234	126.00 PCI/L	17	J												
THORIUM-230	1.00 PCI/L		UJ												
RADIUM-226	1.00 PCI/L		U												
URANIUM-235/236	6.21 PCI/L	1.99	J												
THORIUM-232	1.00 PCI/L		UJ												
RADIUM-228	3.00 PCI/L		UJ												
THORIUM-228	1.00 PCI/L		UJ												
NEPTUNIUM-237	1.00 PCI/L		U												
PLUTONIUM-239/240	1.00 PCI/L		R												
PLUTONIUM-238	1.00 PCI/L		UJ												
STRONTIUM-90	5.00 PCI/L		R												

000384

SAMPLE NUMBER:	067050			067051			067058			067029			067032		
LAB:	IT														
SUFFIX/FILTERFLAG:	-9-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
TECHNETIUM-99	30.00 PCI/L		UJ												
RUTHENIUM-106	150.00 PCI/L		UJ												
CESIUM-137	20.00 PCI/L		UJ												
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		U						
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U	20.00 UG/L		U						
2,4-DINITROTOLUENE				20.00 UG/L		U	20.00 UG/L		U						
2-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U						
4-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROBUTADIENE				20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROETHANE				20.00 UG/L		U	20.00 UG/L		U						
NITROBENZENE				20.00 UG/L		U	20.00 UG/L		U						
PENTACHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U						
PYRIDINE				20.00 UG/L		U	20.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U						
2-BUTANONE				4.00 UG/L		J	6.00 UG/L		J						
BENZENE				5.00 UG/L		U	5.00 UG/L		U						
CARBON TETRACHLORIDE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U						
CHLOROFORM				5.00 UG/L		U	5.00 UG/L		U						
TETRACHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U						
VINYL CHLORIDE				10.00 UG/L		U	10.00 UG/L		U						

000385

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067038	067039	067047	067021	067025
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1710	1710	1710	1711	1711
DEPTH:	16.5-18	16.5-18	28.5-30	-	-
DATE COLLECTED:	01-JUN-91	01-JUN-91	01-JUN-91	29-MAY-91	30-MAY-91
NORTH COORDINATE:	477931.49	477931.49	477931.49	478126.52	478126.52
EAST COORDINATE:	1378993.33	1378993.33	1378993.33	1378968.88	1378968.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							11.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U	1.80 UG/L		U				1.80 UG/L		U	1.80 UG/L		U
2,4-D	12.00 UG/L		U	12.00 UG/L		U				12.00 UG/L		U	12.00 UG/L		U
INORGANICS															
ARSENIC	0.10 MG/L		JB	0.05 MG/L		U				0.45 MG/L		JB	0.09 MG/L		JB
BARIUM	1.86 MG/L		JB	0.33 MG/L		-				0.29 MG/L		JB	0.65 MG/L		JB
CADMIUM	0.00 MG/L		JB	0.00 MG/L		U				0.00 MG/L		U	0.00 MG/L		U
CHROMIUM	0.01 MG/L		U	0.01 MG/L		U				0.01 MG/L		U	0.02 MG/L		JB
LEAD	0.04 MG/L		U	0.04 MG/L		U				0.05 MG/L		JB	0.04 MG/L		U
MERCURY	0.00 MG/L		U	0.00 MG/L		U				0.00 MG/L		-	0.00 MG/L		U
SELENIUM	0.13 MG/L		JB	0.08 MG/L		U				0.11 MG/L		JB	0.11 MG/L		JB
SILVER	0.01 MG/L		U	0.01 MG/L		U				0.01 MG/L		U	0.02 MG/L		JB
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U
ENDRIN	0.10 UG/L		U	0.10 UG/L		U				0.10 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)	0.05 UG/L		U	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U
HEPTACHLOR	0.05 UG/L		U	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		U
HEPTACHLOR EPOXIDE	0.05 UG/L		U	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		U

SAMPLE NUMBER:	067038			067039			067047			067021			067025		
LAB:	IT			IT						IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR	0.50 UG/L		U	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U
TOXAPHENE	1.00 UG/L		U	1.00 UG/L		U				1.00 UG/L		U	1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U							100.00 UG/L		U	100.00 UG/L		U
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
2,4-DINITROTOLUENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
2-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
4-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
HEXACHLOROBENZENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
HEXACHLOROBUTADIENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
HEXACHLOROETHANE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
NITROBENZENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
PENTACHLOROPHENOL	100.00 UG/L		U							100.00 UG/L		U	100.00 UG/L		U
PYRIDINE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE	10.00 UG/L		U							10.00 UG/L		U	10.00 UG/L		U
BENZENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE	10.00 UG/L		U							10.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067009	067012	067015	067016	067017
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1711	1711	1711	1711	1711
DEPTH:	0-1.5	4.5-6	9-10.5	10.5-12	10.5-12
DATE COLLECTED:	23-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91
NORTH COORDINATE:	478126.52	478126.52	478126.52	478126.52	478126.52
EAST COORDINATE:	1378968.88	1378968.88	1378968.88	1378968.88	1378968.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				23.00 %		NV	30.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		U	3.60 UG/L		U
2,4-D										12.00 UG/L		U	24.00 UG/L		U
INORGANICS															
ARSENIC										0.05 MG/L		U	0.05 MG/L		U
BARIUM										0.59 MG/L		JB	0.33 MG/L		-
CADMIUM										0.00 MG/L		U	0.00 MG/L		U
CHROMIUM										0.01 MG/L		U	0.01 MG/L		U
LEAD										0.04 MG/L		JB	0.04 MG/L		U
MERCURY										0.00 MG/L		U	0.00 MG/L		U
SELENIUM										0.08 MG/L		-	0.08 MG/L		U
SILVER										0.01 MG/L		U	0.01 MG/L		U
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		U	0.50 UG/L		U
ENDRIN										0.10 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)										0.05 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE										0.50 UG/L		U	0.50 UG/L		U
HEPTACHLOR										0.05 UG/L		U	0.10 UG/L		UR
HEPTACHLOR EPOXIDE										0.05 UG/L		U	0.05 UG/L		U

000388

SAMPLE NUMBER:	067009			067012			067015			067016			067017		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR										0.50 UG/L		U	0.50 UG/L		U
TOXAPHENE										1.00 UG/L		U	2.00 UG/L		UR
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		U			
2,4,5-TRICHLOROPHENOL										100.00 UG/L		U			
2,4,6-TRICHLOROPHENOL										20.00 UG/L		U			
2,4-DINITROTOLUENE										20.00 UG/L		U			
2-METHYLPHENOL										20.00 UG/L		U			
4-METHYLPHENOL										20.00 UG/L		U			
HEXACHLOROBENZENE										20.00 UG/L		U			
HEXACHLOROBUTADIENE										20.00 UG/L		U			
HEXACHLOROETHANE										20.00 UG/L		U			
NITROBENZENE										20.00 UG/L		U			
PENTACHLOROPHENOL										100.00 UG/L		U			
PYRIDINE										20.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		UNV							5.00 UG/L		U			
1,2-DICHLOROETHANE	5.00 UG/L		UNV							5.00 UG/L		U			
2-BUTANONE	2.00 UG/L		NV							10.00 UG/L		U			
BENZENE	5.00 UG/L		UNV							5.00 UG/L		U			
CARBON TETRACHLORIDE	5.00 UG/L		UNV							5.00 UG/L		U			
CHLOROBENZENE	5.00 UG/L		UNV							5.00 UG/L		U			
CHLOROFORM	5.00 UG/L		UNV							5.00 UG/L		U			
TETRACHLOROETHENE	5.00 UG/L		UNV							5.00 UG/L		U			
TRICHLOROETHENE	5.00 UG/L		UNV							5.00 UG/L		U			
VINYL CHLORIDE	10.00 UG/L		UNV							10.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067020	061319	061324	061329	061334
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1711	1712	1713	1714	1715
DEPTH:	18-19.5	1.5-2	1.5-2	1.5-2	1.5-2
DATE COLLECTED:	29-MAY-91	04-MAY-91	04-MAY-91	04-MAY-91	04-MAY-91
NORTH COORDINATE:	478126.52	477418.76	477342.63	477954.45	477901.68
EAST COORDINATE:	1378968.88	1379588.15	1379411.61	1379280.94	1379517.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	28.00 %		NV												
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U	1.80 UG/L		U	1.80 UG/L		U	1.80 UG/L		U
2,4-D				12.00 UG/L		U	12.00 UG/L		U	12.00 UG/L		U	12.00 UG/L		U
INORGANICS															
ARSENIC				0.33 MG/L		-	0.28 MG/L		-	0.25 MG/L		U	0.12 MG/L		-
BARIUM				1.19 MG/L		-	0.56 MG/L		-	1.04 MG/L		-	0.51 MG/L		-
CADMIUM				0.01 MG/L		-	0.02 MG/L		-	0.01 MG/L		-	0.00 MG/L		-
CHROMIUM				0.08 MG/L		-	0.10 MG/L		-	0.09 MG/L		-	0.02 MG/L		-
LEAD				0.20 MG/L		U	0.20 MG/L		U	0.20 MG/L		U	0.04 MG/L		U
MERCURY				0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
SELENIUM				0.40 MG/L		U	0.40 MG/L		U	0.40 MG/L		U	0.11 MG/L		-
SILVER				0.14 MG/L		-	0.14 MG/L		-	0.13 MG/L		-	0.02 MG/L		-
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		UR
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U
ENDRIN				0.10 UG/L		U	0.10 UG/L		U	0.10 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)				0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U
HEPTACHLOR				0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U
HEPTACHLOR EPOXIDE				0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U

000360

SAMPLE NUMBER:	067020			061319			061324			061329			061334		
LAB:				IT			IT			IT			IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR				0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U
TOXAPHENE				1.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		UR
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U	100.00 UG/L		UR	100.00 UG/L		U
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		UR
2,4-DINITROTOLUENE				20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		UR
2-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U
4-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UR
HEXACHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		UR
HEXACHLOROBUTADIENE				20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		U
HEXACHLOROETHANE				20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR
NITROBENZENE				20.00 UG/L		U	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		UR
PENTACHLOROPHENOL				20.00 UG/L		J	100.00 UG/L		UR	100.00 UG/L		UR	100.00 UG/L		UR
PYRIDINE				20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UR
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE				3.00 UG/L		JB	1.00 UG/L		JB	3.00 UG/L		JB	2.00 UG/L		J
BENZENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	1.00 UG/L		JB
TETRACHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE				10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067007	067003	067281	067301	067303
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1716	1717	1718	1719	1719
DEPTH:	1.5-2	1.5-2	-	-	-
DATE COLLECTED:	14-MAY-91	14-MAY-91	01-AUG-91	08-AUG-91	08-AUG-91
NORTH COORDINATE:	480646.21	480514.23	482144.49	482215.57	482215.57
EAST COORDINATE:	1379755.7	1379737.45	1379619.44	1379699.18	1379699.18
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	R-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
ALKALINITY AS CACO3							68.00 MG/L		NV						
AMMONIA							0.10 MG/L		UNV						
CHLORIDE							1.75 MG/L		NV						
FLUORIDE							1.60 MG/L		NV						
NITRATE							0.71 MG/L		NV						
PH							7.80 SU		NV						
PHOSPHATE							0.02 MG/L		NV						
SULFATE							5.30 MG/L		NV						
TOTAL ORGANIC CARBON							8.77 MG/L		NV						
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U	1.80 UG/L		U				1.80 UG/L		U	1.80 UG/L		U
2,4-D	12.00 UG/L		U	12.00 UG/L		U				10.00 UG/L		U	10.00 UG/L		U
INORGANICS															
ARSENIC	0.50 MG/L		-	0.38 MG/L		-				0.10 MG/L		UJ	0.10 MG/L		UJ
BARIUM	0.51 MG/L		-	0.64 MG/L		-				0.97 MG/L		-	1.08 MG/L		-
CADMIUM	0.04 MG/L		-	0.03 MG/L		-				0.01 MG/L		-	0.01 MG/L		-
CHROMIUM	0.11 MG/L		-	0.09 MG/L		-				0.08 MG/L		-	0.09 MG/L		-
LEAD	0.28 MG/L		-	0.20 MG/L		-				0.07 MG/L		R	0.07 MG/L		R
MERCURY	0.00 MG/L		U	0.00 MG/L		U				0.00 MG/L		U	0.00 MG/L		U
SELENIUM	0.48 MG/L		-	0.40 MG/L		U				0.15 MG/L		J	0.13 MG/L		J
SILVER	0.15 MG/L		-	0.15 MG/L		-				0.07 MG/L		-	0.07 MG/L		-
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		U	20.00 UG/L		U

PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U
06/14/94															
SAMPLE NUMBER:	067007			067003			067281			067301			067303		
LAB:	IT			IT						IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
ENDRIN	0.10 UG/L		U	0.10 UG/L		U				0.40 UG/L		UR	0.10 UG/L		U
GAMMA-BHC (LINDANE)	0.05 UG/L		U	0.05 UG/L		U				0.20 UG/L		UR	0.05 UG/L		U
GAMMA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U
HEPTACHLOR	0.05 UG/L		U	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		U
HEPTACHLOR EPOXIDE	0.05 UG/L		U	0.05 UG/L		U				0.20 UG/L		UR	0.05 UG/L		U
METHOXYCHLOR	0.50 UG/L		U	0.50 UG/L		U				2.00 UG/L		UR	0.50 UG/L		U
TOXAPHENE	1.00 UG/L		U	1.00 UG/L		U				1.00 UG/L		U	1.00 UG/L		U
RADIONUCLIDES															
URANIUM-238							29.10 PCI/L	4.4	NV						
URANIUM-234							19.70 PCI/L	3.2	NV						
THORIUM-230							1.00 PCI/L		NV						
RADIUM-226							1.00 PCI/L		UNV						
URANIUM-235/236							3.25 PCI/L	1.06	NV						
THORIUM-232							1.00 PCI/L		NV						
THORIUM, TOTAL							3.60 UG/L		NV						
RADIUM-228							3.00 PCI/L		UNV						
THORIUM-228							1.00 PCI/L		NV						
NEPTUNIUM-237							1.00 PCI/L		NV						
PLUTONIUM-239/240							1.00 PCI/L		NV						
PLUTONIUM-238							1.00 PCI/L		NV						
STRONTIUM-90							5.00 PCI/L		NV						
TECHNETIUM-99							34.00 PCI/L		R						
RUTHENIUM-106							150.00 PCI/L		UJ						
CESIUM-137							20.00 PCI/L		R						
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		UR	20.00 UG/L		U
2,4,5-TRICHLOROPHENOL										100.00 UG/L		UJ	100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL										20.00 UG/L		UR	20.00 UG/L		U
2,4-DINITROTOLUENE										20.00 UG/L		U	20.00 UG/L		U
2-METHYLPHENOL										20.00 UG/L		U	20.00 UG/L		U
4-METHYLPHENOL										20.00 UG/L		UR	20.00 UG/L		U
HEXACHLOROBENZENE										20.00 UG/L		U	20.00 UG/L		U
HEXACHLOROBUTADIENE										20.00 UG/L		UR	20.00 UG/L		U
HEXACHLOROETHANE										20.00 UG/L		U	20.00 UG/L		U
NITROBENZENE										20.00 UG/L		UR	20.00 UG/L		U
PENTACHLOROPHENOL										100.00 UG/L		U	100.00 UG/L		U
PYRIDINE										20.00 UG/L		U	20.00 UG/L		U

SAMPLE NUMBER:	067007			067003			067281			067301			067303		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1,1-TRICHLOROETHANE	5.00 UG/L		U												
1,1,2,2-TETRACHLOROETHANE	5.00 UG/L		U												
1,1,2-TRICHLOROETHANE	5.00 UG/L		U												
1,1-DICHLOROETHANE	5.00 UG/L		U												
1,1-DICHLOROETHENE	5.00 UG/L		U	11.00 UG/L		-							5.00 UG/L		U
1,2-DICHLOROETHANE	5.00 UG/L		U	5.00 UG/L		U							5.00 UG/L		U
1,2-DICHLOROETHENE (TOTAL)	5.00 UG/L		U												
1,2-DICHLOROPROPANE	5.00 UG/L		U												
2-BUTANONE	10.00 UG/L		U	6.00 UG/L		J							2.00 UG/L		J
2-HEXANONE	10.00 UG/L		U												
4-METHYL-2-PENTANONE	10.00 UG/L		U												
ACETONE	1.00 UG/L		U												
BENZENE	5.00 UG/L		U	5.00 UG/L		U							5.00 UG/L		U
BROMODICHLOROMETHANE	2.00 UG/L		J												
BROMOFORM	5.00 UG/L		U												
BROMOMETHANE	10.00 UG/L		U												
CARBON DISULFIDE	5.00 UG/L		U												
CARBON TETRACHLORIDE	5.00 UG/L		U	5.00 UG/L		U							5.00 UG/L		U
CHLOROBENZENE	5.00 UG/L		U	5.00 UG/L		U							5.00 UG/L		U
CHLOROETHANE	10.00 UG/L		U												
CHLOROFORM	5.00 UG/L		U	5.00 UG/L		U							5.00 UG/L		U
CHLOROMETHANE	10.00 UG/L		U												
CIS-1,3-DICHLOROPROPENE	5.00 UG/L		U												
DIBROMOCHLOROMETHANE	5.00 UG/L		U												
ETHYLBENZENE	5.00 UG/L		U												
METHYLENE CHLORIDE	5.00 UG/L		U												
TETRACHLOROETHENE	5.00 UG/L		U	2.00 UG/L		J							1.00 UG/L		J
TOLUENE	1.00 UG/L		J												
TRANS-1,3-DICHLOROPROPENE	5.00 UG/L		U												
TRICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U							5.00 UG/L		U
VINYL ACETATE	10.00 UG/L		U												
VINYL CHLORIDE	10.00 UG/L		U	10.00 UG/L		U							10.00 UG/L		U
XYLENES, TOTAL	5.00 UG/L		U												

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067287	067289	067295	067300	067317
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1719	1719	1719	1719	1720
DEPTH:	3-4.5	6-7.5	15-16.5	18-19.5	-
DATE COLLECTED:	07-AUG-91	07-AUG-91	08-AUG-91	08-AUG-91	10-AUG-91
NORTH COORDINATE:	482215.57	482215.57	482215.57	482215.57	482215.72
EAST COORDINATE:	1379699.18	1379699.18	1379699.18	1379699.18	1379783.27
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV				21.00 %		NV	9.00 % MOISTURE		NV			
ALKALINITY AS CACO3													58.00 MG/L		J
AMMONIA													0.12 MG/L		-
CHLORIDE													1.27 MG/L		-
FLUORIDE													1.20 MG/L		-
NITRATE													66.80 MG/L		-
PH													7.85 SU		-
PHOSPHATE													0.06 MG/L		-
SULFATE													16.80 MG/L		-
TOTAL ORGANIC CARBON													9.38 MG/L		J
RADIONUCLIDES															
URANIUM-238													2.39 PCI/L	.96	R
URANIUM-234													3.63 PCI/L	1.19	J
THORIUM-230													1.00 PCI/L		U
RADIUM-226													1.00 PCI/L		U
URANIUM-235/236													1.16 PCI/L	.67	J
THORIUM-232													1.00 PCI/L		U
THORIUM, TOTAL													2.10 UG/L		U
RADIUM-228													3.00 PCI/L		UJ
THORIUM-228													1.00 PCI/L		U
NEPTUNIUM-237													1.00 PCI/L		UJ
PLUTONIUM-239/240													1.00 PCI/L		U
PLUTONIUM-238													1.00 PCI/L		U
STRONTIUM-90													5.00 PCI/L		R
TECHNETIUM-99													36.00 PCI/L		R
RUTHENIUM-106													150.00 PCI/L		UJ
CESIUM-137													20.00 PCI/L		R

000395

5704

VOLATILES

1,1-DICHLOROETHENE 5.00 UG/L UNV
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067287			067289			067295			067300			067317		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHANE				5.00 UG/L		UNV									
2-BUTANONE				2.00 UG/L		NV									
BENZENE				5.00 UG/L		UNV									
CARBON TETRACHLORIDE				5.00 UG/L		UNV									
CHLOROBENZENE				5.00 UG/L		UNV									
CHLOROFORM				5.00 UG/L		UNV									
TETRACHLOROETHENE				5.00 UG/L		UNV									
TRICHLOROETHENE				5.00 UG/L		UNV									
VINYL CHLORIDE				10.00 UG/L		UNV									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067318	067319	067307	067309	067311
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1720	1720	1720	1720	1720
DEPTH:	-	-	3-4.5	6-7.5	7.5-9
DATE COLLECTED:	10-AUG-91	10-AUG-91	10-AUG-91	10-AUG-91	10-AUG-91
NORTH COORDINATE:	482215.72	482215.72	482215.72	482215.72	482215.72
EAST COORDINATE:	1379783.27	1379783.27	1379783.27	1379783.27	1379783.27
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							16.00 %		NV				17.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U	1.80 UG/L		U				1.80 UG/L		U			
2,4-D	10.00 UG/L		U	10.00 UG/L		U				10.00 UG/L		U			
INORGANICS															
ARSENIC	0.25 MG/L		U	0.25 MG/L		U									
BARIUM	1.07 MG/L		-	1.14 MG/L		-									
CADMIUM	0.01 MG/L		-	0.01 MG/L		U									
CHROMIUM	0.09 MG/L		-	0.08 MG/L		-									
LEAD	0.09 MG/L		-	0.08 MG/L		-									
MERCURY	0.00 MG/L		U	0.00 MG/L		U									
SELENIUM	0.14 MG/L		-	0.14 MG/L		-									
SILVER	0.08 MG/L		-	0.07 MG/L		-									
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U									
CHLORDANE	0.50 UG/L		U	0.50 UG/L		U									
ENDRIN	0.10 UG/L		U	0.10 UG/L		U									
GAMMA-BHC (LINDANE)	0.05 UG/L		U	0.05 UG/L		U									
GAMMA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U									
HEPTACHLOR	0.05 UG/L		U	0.05 UG/L		U									

000397

5704

SAMPLE NUMBER:	067318			067319			067307			067309			067311		
LAB:	IT			IT											
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE	0.05 UG/L		U	0.05 UG/L		U									
METHOXYCHLOR	0.50 UG/L		U	0.50 UG/L		U									
TOXAPHENE	1.00 UG/L		U	1.00 UG/L		U									
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U	100.00 UG/L		U				100.00 UG/L		U			
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U	20.00 UG/L		U				204.00 UG/L		U			
2,4-DINITROTOLUENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
2-METHYLPHENOL	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
4-METHYLPHENOL	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROBENZENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROBUTADIENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROETHANE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
NITROBENZENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
PENTACHLOROPHENOL	100.00 UG/L		U	100.00 UG/L		U				100.00 UG/L		U			
PYRIDINE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U			
1,2-DICHLOROETHANE				5.00 UG/L		U				5.00 UG/L		U			
2-BUTANONE				4.00 UG/L		J				4.00 UG/L		J			
BENZENE				5.00 UG/L		U				5.00 UG/L		U			
CARBON TETRACHLORIDE				5.00 UG/L		U				5.00 UG/L		U			
CHLOROBENZENE				5.00 UG/L		U				5.00 UG/L		U			
CHLOROFORM				5.00 UG/L		U				5.00 UG/L		U			
TETRACHLOROETHENE				1.00 UG/L		J				5.00 UG/L		U			
TRICHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U			
VINYL CHLORIDE				10.00 UG/L		U				10.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067312	067245	067246	067247	067233
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1720	1721	1721	1721	1721
DEPTH:	9-10.5	-	-	-	7.5-9
DATE COLLECTED:	10-AUG-91	28-JUL-91	28-JUL-91	28-JUL-91	26-JUL-91
NORTH COORDINATE:	482215.72	482136.4	482136.4	482136.4	482136.4
EAST COORDINATE:	1379783.27	1379785.34	1379785.34	1379785.34	1379785.34
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV												
ALKALINITY AS CACO3							55.00 MG/L		J						
AMMONIA							0.15 MG/L		-						
CHLORIDE							1.39 MG/L		R						
FLUORIDE							0.77 MG/L		-						
NITRATE							1.09 MG/L		-						
PH							8.19 SU		-						
PHOSPHATE							0.05 MG/L		-						
SULFATE							7.20 MG/L		-						
TOTAL ORGANIC CARBON							11.90 MG/L		-						
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U				1.80 UG/L		U			
2,4-D				10.00 UG/L		U				10.00 UG/L		U			
INORGANICS															
ALUMINUM							0.76 MG/L		JB						
ANTIMONY							0.03 MG/L		U						
ARSENIC				0.15 MG/L		U	0.05 MG/L		U	0.15 MG/L		U			
BARIUM				0.91 MG/L		-	0.18 MG/L		J	0.87 MG/L		-			
BERYLLIUM							0.00 MG/L		U						
CADMIUM				0.01 MG/L		U	0.00 MG/L		U	0.01 MG/L		-			
CALCIUM							20.40 MG/L		-						
CHROMIUM				0.08 MG/L		-	0.01 MG/L		U	0.08 MG/L		-			
COBALT							0.01 MG/L		U						
COPPER							0.01 MG/L		-						
IRON							0.50 MG/L		JB						
LEAD				0.04 MG/L		U	0.01 MG/L		-	0.04 MG/L		U			

000399

5704

SAMPLE NUMBER:	067312			067245			067246			067247			067233		
LAB:				IT			IT			IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			-9-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM							4.01 MG/L		-						
MANGANESE							0.03 MG/L		JB						
MERCURY				0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U			
MOLYBDENUM							0.01 MG/L		U						
NICKEL							0.02 MG/L		U						
POTASSIUM							0.38 MG/L		J						
SELENIUM				0.08 MG/L		U	0.08 MG/L		UJ	0.08 MG/L		U			
SILICON							3.32 MG/L		JB						
SILVER				0.08 MG/L		-	0.01 MG/L		U	0.08 MG/L		-			
SODIUM							1.51 MG/L		-						
THALLIUM							0.15 MG/L		UJ						
VANADIUM							0.01 MG/L		U						
ZINC							0.13 MG/L		-						
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		U			
ENDRIN				0.10 UG/L		U				0.10 UG/L		U			
GAMMA-BHC (LINDANE)				0.05 UG/L		U				0.05 UG/L		U			
GAMMA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		U			
HEPTACHLOR				0.05 UG/L		U				0.05 UG/L		U			
HEPTACHLOR EPOXIDE				0.05 UG/L		U				0.05 UG/L		U			
METHOXYCHLOR				0.50 UG/L		U				0.50 UG/L		U			
TOXAPHENE				1.00 UG/L		U				1.00 UG/L		U			
RADIONUCLIDES															
URANIUM-238							39.60 PCI/L	6.8	-						
URANIUM-234							13.20 PCI/L	3.2	J						
THORIUM-230							1.00 PCI/L		UJ						
RADIUM-226							1.00 PCI/L		R						
URANIUM-235/236							2.90 PCI/L	1.4	J						
THORIUM-232							1.00 PCI/L		U						
THORIUM, TOTAL							2.50 UG/L		U						
RADIUM-228							3.00 PCI/L		UJ						
THORIUM-228							1.00 PCI/L		UJ						
NEPTUNIUM-237							1.00 PCI/L		UJ						
PLUTONIUM-239/240							1.00 PCI/L		U						
PLUTONIUM-238							1.00 PCI/L		U						
STRONTIUM-90							5.00 PCI/L		U						
TECHNETIUM-99							30.00 PCI/L		U						

000400

SAMPLE NUMBER:	067312			067245			067246			067247			067233		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			-9-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106							152.00 PCI/L		UJ						
CESIUM-137							20.00 PCI/L		UJ						
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U				20.00 UG/L		U			
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U				100.00 UG/L		U			
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U				20.00 UG/L		U			
2,4-DINITROTOLUENE				20.00 UG/L		U				20.00 UG/L		U			
2-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		U			
4-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROBENZENE				20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROBUTADIENE				20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROETHANE				20.00 UG/L		U				20.00 UG/L		U			
NITROBENZENE				20.00 UG/L		U				20.00 UG/L		U			
PENTACHLOROPHENOL				100.00 UG/L		U				100.00 UG/L		U			
PYRIDINE				20.00 UG/L		U				20.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U			
1,2-DICHLOROETHANE				5.00 UG/L		U				5.00 UG/L		U			
2-BUTANONE				7.00 UG/L		J				4.00 UG/L		J			
BENZENE				5.00 UG/L		U				5.00 UG/L		U			
CARBON TETRACHLORIDE				5.00 UG/L		U				5.00 UG/L		U			
CHLOROBENZENE				5.00 UG/L		U				5.00 UG/L		U			
CHLOROFORM				5.00 UG/L		U				5.00 UG/L		U			
TETRACHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U			
TRICHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U			
VINYL CHLORIDE				10.00 UG/L		U				10.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067236	067237	067261	067262	067264
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1721	1721	1722	1722	1722
DEPTH:	12-13.5	13.5-15	-	-	-
DATE COLLECTED:	27-JUL-91	27-JUL-91	30-JUL-91	30-JUL-91	30-JUL-91
NORTH COORDINATE:	482136.4	482136.4	482114.81	482114.81	482114.81
EAST COORDINATE:	1379785.34	1379785.34	1379739.45	1379739.45	1379739.45
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				22.00 %		NV									
ALKALINITY AS CACO3										195.00 MG/L		-			
AMMONIA										0.24 MG/L		-			
CHLORIDE										3.59 MG/L		J			
FLUORIDE										2.80 MG/L		-			
NITRATE										0.10 MG/L		U			
PH										7.29 SU		-			
PHOSPHATE										0.09 MG/L		J			
SULFATE										18.50 MG/L		J			
TOTAL ORGANIC CARBON										13.10 MG/L		J			
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U				1.80 UG/L		U				1.80 UG/L		U
2,4-D	10.00 UG/L		U				10.00 UG/L		U				10.00 UG/L		U
INORGANICS															
ALUMINUM										4.15 MG/L		NV	0.80 MG/L		J
ANTIMONY										0.13 MG/L		NV			
ARSENIC	0.05 MG/L		U				0.15 MG/L		UJ	0.00 MG/L		NV	0.15 MG/L		UJ
BARIUM	0.84 MG/L		-				1.14 MG/L		JB	0.16 MG/L		NV	1.26 MG/L		JB
BERYLLIUM										0.02 MG/L		NV			
CADMIUM	0.02 MG/L		-				0.01 MG/L		R	0.01 MG/L		NV	0.01 MG/L		UR
CALCIUM										38.10 MG/L		NV			
CHROMIUM	0.06 MG/L		-				0.73 MG/L		R	0.58 MG/L		NV	0.15 MG/L		R
COBALT										0.07 MG/L		NV			
COPPER										0.17 MG/L		NV			
IRON										0.79 MG/L		NV			
LEAD	0.04 MG/L		U				0.43 MG/L		R	0.00 MG/L		NV	0.04 MG/L		R

000402

SAMPLE NUMBER:	067236			067237			067261			067262			067264		
LAB:	IT						IT			IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			-9-UNK			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM										14.90 MG/L		NV			
MANGANESE										0.06 MG/L		NV			
MERCURY	0.00 MG/L		U				0.00 MG/L		UJ	0.00 MG/L		UNV	0.00 MG/L		U
MOLYBDENUM										0.22 MG/L		NV			
NICKEL										0.08 MG/L		NV			
POTASSIUM										0.69 MG/L		NV			
SELENIUM	0.11 MG/L		-				0.38 MG/L		JB	0.00 MG/L		UNV	0.11 MG/L		JB
SILICON										3.39 MG/L		NV			
SILVER	0.05 MG/L		-				0.36 MG/L		R	0.31 MG/L		NV	0.10 MG/L		R
SODIUM										18.70 MG/L		NV			
THALLIUM										5.09 MG/L		NV			
VANADIUM										0.24 MG/L		NV			
ZINC										0.13 MG/L		NV			
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		U				20.00 UG/L		UR
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U				0.50 UG/L		U				0.50 UG/L		U
ENDRIN	0.20 UG/L		UR				0.10 UG/L		U				0.10 UG/L		U
GAMMA-BHC (LINDANE)	0.05 UG/L		U				0.05 UG/L		U				0.05 UG/L		U
GAMMA-CHLORDANE	1.00 UG/L		UR				0.50 UG/L		U				0.50 UG/L		U
HEPTACHLOR	0.10 UG/L		UR				0.05 UG/L		U				0.05 UG/L		U
HEPTACHLOR EPOXIDE	0.10 UG/L		UR				0.05 UG/L		U				0.05 UG/L		U
METHOXYCHLOR	1.00 UG/L		UR				0.50 UG/L		U				0.50 UG/L		U
TOXAPHENE	1.00 UG/L		U				1.00 UG/L		U				1.00 UG/L		U
RADIONUCLIDES															
THORIUM-230										2.98 PCI/L	.8	J			
RADIUM-226										1.00 PCI/L		U			
THORIUM-232										1.00 PCI/L		UJ			
THORIUM, TOTAL										2.27 UG/L	1.88	J			
RADIUM-228										3.00 PCI/L		U			
THORIUM-228										1.00 PCI/L		UJ			
NEPTUNIUM-237										5.44 PCI/L	1.62	J			
PLUTONIUM-239/240										1.00 PCI/L		U			
PLUTONIUM-238										1.00 PCI/L		UJ			
STRONTIUM-90										5.00 PCI/L		U			
TECHNETIUM-99										256.00 PCI/L	33	-			
RUTHENIUM-106										154.00 PCI/L		R			
CESIUM-137										20.00 PCI/L		R			

SEMIVOLATILES

1,4-DICHLOROBENZENE 20.00 UG/L UR 20.00 UG/L UR
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067236			067237			067261			067262			067264		
LAB:							IT						IT		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			R-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL							100.00 UG/L		UR				100.00 UG/L		UR
2,4,6-TRICHLOROPHENOL							20.00 UG/L		UR				20.00 UG/L		UR
2,4-DINITROTOLUENE							20.00 UG/L		UR				20.00 UG/L		UR
2-METHYLPHENOL							20.00 UG/L		UR				20.00 UG/L		UR
4-METHYLPHENOL							20.00 UG/L		UR				20.00 UG/L		UR
HEXACHLOROBENZENE							20.00 UG/L		UR				20.00 UG/L		UR
HEXACHLOROBUTADIENE							20.00 UG/L		UR				20.00 UG/L		UR
HEXACHLOROETHANE							20.00 UG/L		UR				20.00 UG/L		UR
NITROBENZENE							20.00 UG/L		UR				20.00 UG/L		UR
PENTACHLOROPHENOL							100.00 UG/L		UR				9.00 UG/L		R
PYRIDINE							20.00 UG/L		UR				5.00 UG/L		R
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U				5.00 UG/L		U
1,2-DICHLOROETHANE							5.00 UG/L		U				5.00 UG/L		U
2-BUTANONE							2.00 UG/L		J				1.00 UG/L		J
BENZENE							5.00 UG/L		U				5.00 UG/L		U
CARBON TETRACHLORIDE							5.00 UG/L		U				5.00 UG/L		U
CHLOROBENZENE							5.00 UG/L		U				5.00 UG/L		U
CHLOROFORM							5.00 UG/L		U				5.00 UG/L		U
TETRACHLOROETHENE							30.00 UG/L		-				1.00 UG/L		J
TRICHLOROETHENE							5.00 UG/L		U				5.00 UG/L		U
VINYL CHLORIDE							10.00 UG/L		U				10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067250	067253	067256	067259	067185
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1722	1722	1722	1722	1723
DEPTH:	1.5-3	6-7.5	11-12.5	14-16.5	-
DATE COLLECTED:	29-JUL-91	30-JUL-91	30-JUL-91	30-JUL-91	12-JUL-91
NORTH COORDINATE:	482114.81	482114.81	482114.81	482114.81	477243.17
EAST COORDINATE:	1379739.45	1379739.45	1379739.45	1379739.45	1379955.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	9.00 % MOISTURE		NV							21.00 %		NV			
ALKALINITY AS CACO3													50.00 MG/L		-
AMMONIA													0.10 MG/L		U
CHLORIDE													2.93 MG/L		J
FLUORIDE													0.50 MG/L		-
NITRATE													0.12 MG/L		J
PH													7.85 SU		-
PHOSPHATE													0.15 MG/L		J
SULFATE													103.00 MG/L		J
TOTAL ORGANIC CARBON													6.67 MG/L		J
INORGANICS															
ARSENIC				0.25 MG/L		U	0.05 MG/L		U						
BARIUM				2.01 MG/L		-	0.08 MG/L		-						
CADMIUM				0.04 MG/L		-	0.00 MG/L		U						
CHROMIUM				1.29 MG/L		-	0.01 MG/L		-						
LEAD				0.94 MG/L		-	0.04 MG/L		U						
MERCURY				0.00 MG/L		U	0.00 MG/L		U						
SELENIUM				0.74 MG/L		-	0.08 MG/L		U						
SILVER				0.69 MG/L		-	0.01 MG/L		U						
PESTICIDES															
ENDRIN				0.10 UG/L		U	0.10 UG/L		U						
GAMMA-BHC (LINDANE)				0.05 UG/L		U	0.05 UG/L		U						
METHOXYCHLOR				0.50 UG/L		U	0.50 UG/L		U						
TOXAPHENE				1.00 UG/L		U	1.00 UG/L		U						

000405

5704

RADIONUCLIDES

THORIUM-230
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

DRAFT
Page 158

																1.00 PCI/L	UJ
SAMPLE NUMBER:	067250			067253			067256			067259			067185		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			-9-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RADIUM-226													1.00 PCI/L		U
THORIUM-232													1.00 PCI/L		U
THORIUM, TOTAL													3.90 UG/L		U
RADIUM-228													3.00 PCI/L		UJ
THORIUM-228													1.00 PCI/L		UJ
PLUTONIUM-239/240													1.00 PCI/L		U
PLUTONIUM-238													1.00 PCI/L		U
RUTHENIUM-106													150.00 PCI/L		R
CESIUM-137													20.00 PCI/L		R

000406

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067186	067189	067167	067170	067171
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1723	1723	1723	1723	1723
DEPTH:	-	-	4.5-6	9-10.5	10.5-12
DATE COLLECTED:	12-JUL-91	14-JUL-91	11-JUL-91	11-JUL-91	11-JUL-91
NORTH COORDINATE:	477243.17	477243.17	477243.17	477243.17	477243.17
EAST COORDINATE:	1379955.88	1379955.88	1379955.88	1379955.88	1379955.88
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							26.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U	1.80 UG/L		U				1.80 UG/L		U	1.80 UG/L		UJ
2,4-D	10.00 UG/L		U	10.00 UG/L		U				10.00 UG/L		U	10.00 UG/L		UJ
INORGANICS															
ARSENIC	0.25 MG/L		UJ	0.09 MG/L		-				0.25 MG/L		U	0.05 MG/L		U
BARIUM	0.54 MG/L		-	0.43 MG/L		-				0.67 MG/L		-	0.17 MG/L		JB
CADMIUM	0.01 MG/L		U	0.01 MG/L		J				0.03 MG/L		-	0.00 MG/L		JB
CHROMIUM	0.19 MG/L		-	0.03 MG/L		-				0.22 MG/L		-	0.01 MG/L		JB
LEAD	0.20 MG/L		U	0.04 MG/L		U				0.20 MG/L		U	0.04 MG/L		U
MERCURY				0.20 MG/L		U							0.00 MG/L		U
SELENIUM	0.40 MG/L		UJ	0.08 MG/L		-				0.40 MG/L		U	0.08 MG/L		U
SILVER	0.18 MG/L		-	0.03 MG/L		-				0.21 MG/L		J	0.01 MG/L		U
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
PESTICIDES															
ALPHA-CHLORDANE	1.00 UG/L		UR	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		UJ
ENDRIN	0.20 UG/L		UR	0.10 UG/L		U				0.10 UG/L		U	0.10 UG/L		UJ
GAMMA-BHC (LINDANE)	0.10 UG/L		UR	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		UJ
GAMMA-CHLORDANE	1.00 UG/L		UR	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		UJ
HEPTACHLOR	0.10 UG/L		UR	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		UJ
HEPTACHLOR EPOXIDE	0.10 UG/L		UR	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		UJ

SAMPLE NUMBER:	067186			067189			067167			067170			067171		
LAB:	IT			IT						IT			IT		
SUFFIX/FILTERFLAG:	DL-NA			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR	1.00 UG/L		UR	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		UJ
TOXAPHENE	2.00 UG/L		UR	1.00 UG/L		U				1.00 UG/L		U	1.00 UG/L		UJ
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UJ	100.00 UG/L		U				100.00 UG/L		UR			
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		UR			
2,4-DINITROTOLUENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		UR			
2-METHYLPHENOL	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
4-METHYLPHENOL	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
HEXACHLOROBENZENE	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
HEXACHLOROBUTADIENE	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
HEXACHLOROETHANE	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
NITROBENZENE	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
PENTACHLOROPHENOL	100.00 UG/L		UJ	100.00 UG/L		U				100.00 UG/L		UR			
PYRIDINE	20.00 UG/L		UJ	20.00 UG/L		U				20.00 UG/L		UR			
VOLATILES															
1,1-DICHLOROETHENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
1,2-DICHLOROETHANE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
2-BUTANONE	40.00 UG/L		U	40.00 UG/L		U				10.00 UG/L		J			
BENZENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
CARBON TETRACHLORIDE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
CHLOROBENZENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
CHLOROFORM	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
TETRACHLOROETHENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
TRICHLOROETHENE	20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U			
VINYL CHLORIDE	40.00 UG/L		U	40.00 UG/L		U				40.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067173	067184	067222	067223	067224
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1723	1723	1724	1724	1724
DEPTH:	13.5-15	29-30.5	-	-	-
DATE COLLECTED:	11-JUL-91	12-JUL-91	16-JUL-91	16-JUL-91	16-JUL-91
NORTH COORDINATE:	477243.17	477243.17	477239.7	477239.7	477239.7
EAST COORDINATE:	1379955.88	1379955.88	1379830.96	1379830.96	1379830.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	23.00 %		NV	14.00 %		NV									
ALKALINITY AS CACO3							40.00 MG/L		-						
AMMONIA							0.10 MG/L		U						
CHLORIDE							0.52 MG/L		-						
FLUORIDE							0.50 MG/L		-						
NITRATE							0.19 MG/L		-						
PH							7.52 SU		-						
PHOSPHATE							0.08 MG/L		-						
SULFATE							194.00 MG/L		-						
TOTAL ORGANIC CARBON							4.44 MG/L		-						
HERBICIDES															
2,4,5-TP (SILVEX)													1.80 UG/L		U
2,4-D													10.00 UG/L		U
INORGANICS															
ALUMINUM							0.10 MG/L		-						
ANTIMONY							0.03 MG/L		U						
ARSENIC							0.03 MG/L		-	0.05 MG/L		UJ	0.08 MG/L		R
BARIUM							0.16 MG/L		-	0.28 MG/L		J	0.39 MG/L		R
BERYLLIUM							0.00 MG/L		U						
CADMIUM							0.00 MG/L		U	0.01 MG/L		J	0.01 MG/L		R
CALCIUM							45.50 MG/L		-						
CHROMIUM							0.01 MG/L		-	0.04 MG/L		J	0.05 MG/L		-
COBALT							0.01 MG/L		U						
COPPER							0.02 MG/L		-						
IRON							0.03 MG/L		-						
LEAD							0.00 MG/L		U	0.06 MG/L		J	0.10 MG/L		R

000409

5704

SAMPLE NUMBER:	067173			067184			067222			067223			067224		
LAB:							IT			IT			IT		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM							7.27 MG/L		-						
MANGANESE							0.00 MG/L		U						
MERCURY							0.00 MG/L		U	0.00 MG/L		UJ	0.00 MG/L		UR
MOLYBDENUM							0.05 MG/L		-						
NICKEL							0.02 MG/L		U						
POTASSIUM							10.30 MG/L		-						
SELENIUM							0.01 MG/L		-	0.08 MG/L		UJ	0.15 MG/L		R
SILICON							3.27 MG/L		-						
SILVER							0.01 MG/L		U	0.04 MG/L		J	0.05 MG/L		R
SODIUM							2.84 MG/L		-						
THALLIUM							0.15 MG/L		U						
VANADIUM							0.01 MG/L		-						
ZINC							0.11 MG/L		-						
No sort code listed.															
3-METHYLPHENOL													20.00 UG/L		UJ
PESTICIDES															
ALPHA-CHLORDANE													0.50 UG/L		UR
ENDRIN													0.44 UG/L		R
GAMMA-BHC (LINDANE)													0.20 UG/L		R
GAMMA-CHLORDANE													0.50 UG/L		UR
HEPTACHLOR													0.05 UG/L		UJ
HEPTACHLOR EPOXIDE													0.05 UG/L		U
METHOXYCHLOR													0.50 UG/L		U
TOXAPHENE													1.00 UG/L		U
RADIONUCLIDES															
URANIUM-238							3.74 PCI/L	1.16	R						
URANIUM-234							3.15 PCI/L	1.08	R						
THORIUM-230							1.00 PCI/L		UJ						
RADIUM-226							1.00 PCI/L		U						
URANIUM-235/236							1.00 PCI/L		R						
THORIUM-232							1.00 PCI/L		U						
THORIUM, TOTAL							4.20 UG/L		U						
RADIUM-228							3.00 PCI/L		U						
THORIUM-228							1.00 PCI/L		UJ						
NEPTUNIUM-237							1.00 PCI/L		UJ						
PLUTONIUM-239/240							1.00 PCI/L		U						
PLUTONIUM-238							1.00 PCI/L		U						
STRONTIUM-90							5.00 PCI/L		R						
TECHNETIUM-99							33.00 PCI/L		R						

000410

SAMPLE NUMBER:	067173			067184			067222			067223			067224		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			-9-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106							150.00 PCI/L		UJ						
CESIUM-137							20.00 PCI/L		UJ						
SEMIVOLATILES															
1,4-DICHLOROBENZENE													20.00 UG/L		UJ
2,4,5-TRICHLOROPHENOL													100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL													20.00 UG/L		U
2,4-DINITROTOLUENE													20.00 UG/L		U
2-METHYLPHENOL													20.00 UG/L		UJ
4-METHYLPHENOL													20.00 UG/L		UJ
HEXACHLOROBENZENE													20.00 UG/L		UJ
HEXACHLOROBUTADIENE													20.00 UG/L		UJ
HEXACHLOROETHANE													20.00 UG/L		UJ
NITROBENZENE													20.00 UG/L		UJ
PENTACHLOROPHENOL													100.00 UG/L		UJ
PYRIDINE													20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE													20.00 UG/L		U
1,2-DICHLOROETHANE													20.00 UG/L		U
2-BUTANONE													40.00 UG/L		U
BENZENE													20.00 UG/L		U
CARBON TETRACHLORIDE													20.00 UG/L		U
CHLOROBENZENE													20.00 UG/L		U
CHLOROFORM													20.00 UG/L		U
TETRACHLOROETHENE													20.00 UG/L		U
TRICHLOROETHENE													20.00 UG/L		U
VINYL CHLORIDE													40.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067225	067193	067196	067197	067199
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1724	1724	1724	1724	1724
DEPTH:	-	4.5-6	9-10.5	10.5-12	12-14.5
DATE COLLECTED:	16-JUL-91	13-JUL-91	13-JUL-91	13-JUL-91	14-JUL-91
NORTH COORDINATE:	477239.7	477239.7	477239.7	477239.7	477239.7
EAST COORDINATE:	1379830.96	1379830.96	1379830.96	1379830.96	1379830.96
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	R-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				17.00 %		NV							24.90 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U				1.80 UG/L		U	1.80 UG/L		U			
2,4-D	10.00 UG/L		U				10.00 UG/L		U	10.00 UG/L		U			
INORGANICS															
ARSENIC	0.07 MG/L		R				0.05 MG/L		U	0.09 MG/L		JB			
BARIUM	0.33 MG/L		R				0.07 MG/L		U	0.33 MG/L		-			
CADMIUM	0.00 MG/L		R				0.00 MG/L		U	0.01 MG/L		-			
CHROMIUM	0.03 MG/L		-				0.02 MG/L		JB	0.04 MG/L		-			
LEAD	0.04 MG/L		UR				0.05 MG/L		JB	0.06 MG/L		-			
MERCURY	0.00 MG/L		UR				0.00 MG/L		U						
SELENIUM	0.08 MG/L		UR				0.08 MG/L		U	0.11 MG/L		JB			
SILVER	0.03 MG/L		R				0.01 MG/L		JB	0.03 MG/L		-			
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UJ							20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U			
ENDRIN	0.45 UG/L		R				0.10 UG/L		U	0.10 UG/L		U			
GAMMA-BHC (LINDANE)	0.18 UG/L		R				0.05 UG/L		U	0.05 UG/L		U			
GAMMA-CHLORDANE	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U			
HEPTACHLOR	0.16 UG/L		R				0.05 UG/L		U	0.05 UG/L		U			
HEPTACHLOR EPOXIDE	0.05 UG/L		U				0.05 UG/L		U	0.05 UG/L		U			

000442

SAMPLE NUMBER:	067225			067193			067196			067197			067199		
LAB:	IT						IT			IT					
SUFFIX/FILTERFLAG:	R-NA			-			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR	0.50 UG/L		U				0.50 UG/L		U	0.50 UG/L		U			
TOXAPHENE	1.00 UG/L		U				1.00 UG/L		U	1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UJ							20.00 UG/L		UR			
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UJ							100.00 UG/L		UR			
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UJ							20.00 UG/L		U			
2,4-DINITROTOLUENE	20.00 UG/L		U							20.00 UG/L		U			
2-METHYLPHENOL	20.00 UG/L		UJ							20.00 UG/L		UR			
4-METHYLPHENOL	20.00 UG/L		UJ							20.00 UG/L		UR			
HEXACHLOROBENZENE	20.00 UG/L		UJ							20.00 UG/L		U			
HEXACHLOROBUTADIENE	20.00 UG/L		UJ							20.00 UG/L		UR			
HEXACHLOROETHANE	20.00 UG/L		UJ							20.00 UG/L		UR			
NITROBENZENE	20.00 UG/L		UJ							20.00 UG/L		UR			
PENTACHLOROPHENOL	100.00 UG/L		UJ							100.00 UG/L		U			
PYRIDINE	20.00 UG/L		UJ							20.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE	20.00 UG/L		U							20.00 UG/L		U			
1,2-DICHLOROETHANE	20.00 UG/L		U							20.00 UG/L		U			
2-BUTANONE	40.00 UG/L		U							7.00 UG/L		U			
BENZENE	20.00 UG/L		U							20.00 UG/L		U			
CARBON TETRACHLORIDE	20.00 UG/L		U							20.00 UG/L		U			
CHLOROBENZENE	20.00 UG/L		U							20.00 UG/L		U			
CHLOROFORM	20.00 UG/L		U							20.00 UG/L		U			
TETRACHLOROETHENE	20.00 UG/L		U							20.00 UG/L		U			
TRICHLOROETHENE	20.00 UG/L		U							20.00 UG/L		U			
VINYL CHLORIDE	40.00 UG/L		U							40.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067220	067201	067218	067157	067158
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1724	1724	1724	1726	1726
DEPTH:	12-14.5	16-17.5	41.5-43	-	-
DATE COLLECTED:	14-JUL-91	14-JUL-91	16-JUL-91	01-JUL-91	01-JUL-91
NORTH COORDINATE:	477239.7	477239.7	477239.7	477317.49	477317.49
EAST COORDINATE:	1379830.96	1379830.96	1379830.96	1380039.59	1380039.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	R-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	29.80 %		NV	26.00 %		NV	16.00 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		U			
2,4-D										10.00 UG/L		U			
INORGANICS															
ARSENIC										0.07 MG/L		-	0.08 MG/L		J
BARIUM										0.55 MG/L		-	0.44 MG/L		JB
CADMIUM										0.01 MG/L		-	0.02 MG/L		J
CHROMIUM										0.05 MG/L		-	0.07 MG/L		J
LEAD										0.07 MG/L		-	0.10 MG/L		J
MERCURY										0.00 MG/L		U	0.00 MG/L		U
SELENIUM										0.11 MG/L		-	0.14 MG/L		-
SILVER										0.05 MG/L		-	0.06 MG/L		J
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		UJ			
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		U			
ENDRIN										0.10 UG/L		U			
GAMMA-BHC (LINDANE)										0.05 UG/L		U			
GAMMA-CHLORDANE										0.50 UG/L		U			
HEPTACHLOR										0.05 UG/L		U			
HEPTACHLOR EPOXIDE										0.05 UG/L		U			

000414

SAMPLE NUMBER:	067220			067201			067218			067157			067158		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR										0.50 UG/L		U			
TOXAPHENE										1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE										20.00 UG/L		UJ			
2,4,5-TRICHLOROPHENOL										100.00 UG/L		UJ			
2,4,6-TRICHLOROPHENOL										20.00 UG/L		UJ			
2,4-DINITROTOLUENE										20.00 UG/L		UJ			
2-METHYLPHENOL										20.00 UG/L		UJ			
4-METHYLPHENOL										20.00 UG/L		UJ			
HEXACHLOROBENZENE										20.00 UG/L		UJ			
HEXACHLOROBUTADIENE										20.00 UG/L		UJ			
HEXACHLOROETHANE										20.00 UG/L		UJ			
NITROBENZENE										20.00 UG/L		UJ			
PENTACHLOROPHENOL										100.00 UG/L		U			
PYRIDINE										20.00 UG/L		UJ			
VOLATILES															
1,1-DICHLOROETHENE										20.00 UG/L		U			
1,2-DICHLOROETHANE										20.00 UG/L		U			
2-BUTANONE										9.00 UG/L		U			
BENZENE										20.00 UG/L		U			
CARBON TETRACHLORIDE										20.00 UG/L		U			
CHLOROBENZENE										20.00 UG/L		U			
CHLOROFORM										20.00 UG/L		U			
TETRACHLOROETHENE										20.00 UG/L		U			
TRICHLOROETHENE										20.00 UG/L		U			
VINYL CHLORIDE										40.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067159	067162	067149	067150	067151
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1726	1726	1726	1726	1726
DEPTH:	-	-	9-10.5	10.5-12	12-13.5
DATE COLLECTED:	01-JUL-91	01-JUL-91	01-JUL-91	01-JUL-91	01-JUL-91
NORTH COORDINATE:	477317.49	477317.49	477317.49	477317.49	477317.49
EAST COORDINATE:	1380039.59	1380039.59	1380039.59	1380039.59	1380039.59
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							32.00 %		NV						
ALKALINITY AS CACO3	5.00 MG/L		UR												
AMMONIA	0.10 MG/L		UR												
CHLORIDE	0.55 MG/L		J												
FLUORIDE	0.50 MG/L		J												
NITRATE	0.39 MG/L		J												
PH	7.76 SU		J												
PHOSPHATE	0.10 MG/L		J												
SULFATE	182.00 MG/L		J												
TOTAL ORGANIC CARBON	8.26 MG/L		J												
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U				1.80 UG/L		U			
2,4-D				10.00 UG/L		U				10.00 UG/L		U			
INORGANICS															
ALUMINUM	0.17 MG/L		-												
ANTIMONY	0.03 MG/L		U												
ARSENIC	0.06 MG/L		-	0.12 MG/L		-				0.05 MG/L		U	0.05 MG/L		UJ
BARIUM	0.14 MG/L		-	0.39 MG/L		-				0.32 MG/L		-	0.33 MG/L		JB
BERYLLIUM	0.00 MG/L		U												
CADMIUM	0.00 MG/L		U	0.00 MG/L		-				0.01 MG/L		-	0.00 MG/L		UJ
CALCIUM	51.20 MG/L		-												
CHROMIUM	0.01 MG/L		-	0.03 MG/L		-				0.04 MG/L		-	0.01 MG/L		J
COBALT	0.01 MG/L		U												
COPPER	0.01 MG/L		U												
IRON	0.08 MG/L		-												
LEAD	0.00 MG/L		U	0.04 MG/L		U				0.04 MG/L		U	0.04 MG/L		UJ

000416

SAMPLE NUMBER:	067159			067162			067149			067150			067151		
LAB:	IT			IT						IT			IT		
SUFFIX/FILTERFLAG:	-9-NA			NONE-NA			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM	6.68 MG/L		-												
MANGANESE	0.00 MG/L		U												
MERCURY	0.00 MG/L		UR	0.00 MG/L		U				0.00 MG/L		U	0.00 MG/L		U
MOLYBDENUM	0.04 MG/L		-												
NICKEL	0.02 MG/L		U												
POTASSIUM	5.24 MG/L		-												
SELENIUM	0.08 MG/L		U	0.12 MG/L		-				0.08 MG/L		-	0.08 MG/L		UJ
SILICON	2.68 MG/L		-												
SILVER	0.01 MG/L		-	0.03 MG/L		-				0.04 MG/L		-	0.01 MG/L		UJ
SODIUM	3.88 MG/L		-												
THALLIUM	0.15 MG/L		U												
VANADIUM	0.02 MG/L		-												
ZINC	0.08 MG/L		-												
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		UJ				20.00 UG/L		UJ			
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		U			
ENDRIN				0.10 UG/L		U				0.10 UG/L		U			
GAMMA-BHC (LINDANE)				0.05 UG/L		U				0.05 UG/L		U			
GAMMA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		U			
HEPTACHLOR				0.05 UG/L		U				0.05 UG/L		U			
HEPTACHLOR EPOXIDE				0.05 UG/L		U				0.05 UG/L		U			
METHOXYCHLOR				0.50 UG/L		U				0.50 UG/L		U			
TOXAPHENE				1.00 UG/L		U				1.00 UG/L		U			
RADIONUCLIDES															
THORIUM-230	1.00 PCI/L		UJ												
RADIUM-226	1.00 PCI/L		U												
THORIUM-232	1.00 PCI/L		U												
THORIUM, TOTAL	1.80 UG/L		U												
RADIUM-228	3.00 PCI/L		UJ												
THORIUM-228	1.00 PCI/L		UJ												
PLUTONIUM-239/240	1.00 PCI/L		U												
PLUTONIUM-238	1.00 PCI/L		U												
STRONTIUM-90	5.00 PCI/L		R												
TECHNETIUM-99	38.00 PCI/L		R												
RUTHENIUM-106	150.00 PCI/L		R												
CESIUM-137	20.00 PCI/L		UJ												

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SEMIVOLATILES															
1,4-DICHLOROBENZENE 06/14/94				20.00 UG/L		UJ				20.00 UG/L		UR			
SAMPLE NUMBER:	067159			067162			067149			067150			067151		
LAB:				IT						IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			-			R-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL				100.00 UG/L		UJ				100.00 UG/L		UJ			
2,4,6-TRICHLOROPHENOL				20.00 UG/L		UJ				20.00 UG/L		UJ			
2,4-DINITROTOLUENE				20.00 UG/L		UJ				20.00 UG/L		UJ			
2-METHYLPHENOL				20.00 UG/L		UJ				20.00 UG/L		UJ			
4-METHYLPHENOL				20.00 UG/L		UJ				20.00 UG/L		UJ			
HEXACHLOROBENZENE				20.00 UG/L		UJ				20.00 UG/L		UJ			
HEXACHLOROBUTADIENE				20.00 UG/L		UJ				20.00 UG/L		UJ			
HEXACHLOROETHANE				20.00 UG/L		UJ				20.00 UG/L		UR			
NITROBENZENE				20.00 UG/L		UJ				20.00 UG/L		UJ			
PENTACHLOROPHENOL				100.00 UG/L		U				100.00 UG/L		UJ			
PYRIDINE				20.00 UG/L		UJ				20.00 UG/L		UJ			
VOLATILES															
1,1-DICHLOROETHENE				20.00 UG/L		U				20.00 UG/L		U			
1,2-DICHLOROETHANE				20.00 UG/L		U				20.00 UG/L		U			
2-BUTANONE				40.00 UG/L		U				40.00 UG/L		U			
BENZENE				20.00 UG/L		U				20.00 UG/L		U			
CARBON TETRACHLORIDE				20.00 UG/L		U				20.00 UG/L		U			
CHLOROBENZENE				20.00 UG/L		U				20.00 UG/L		U			
CHLOROFORM				20.00 UG/L		U				20.00 UG/L		U			
TETRACHLOROETHENE				20.00 UG/L		U				20.00 UG/L		U			
TRICHLOROETHENE				20.00 UG/L		U				20.00 UG/L		U			
VINYL CHLORIDE				40.00 UG/L		U				40.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067155	101409	100865	100881	101385
TASK:	20.03.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1726	1729	1730	1730	1732
DEPTH:	18-19.5	0-.5	0-.5	16.5-17	0-.5
DATE COLLECTED:	01-JUL-91	13-JAN-92	09-JAN-92	09-JAN-92	08-JAN-92
NORTH COORDINATE:	477317.49	483300	483300	483300	483300
EAST COORDINATE:	1380039.59	1378500	1379000	1379000	1379500
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	24.00 %		NV	22.00 %		NV				19.00 %		NV
CATION EXCHANGE CAPACITY										4.05 MEQ/L		J			

000419

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	101405	100841	100845	101372	100820
TASK:	03.01.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1732	1734	1734	1735	1736
DEPTH:	19.5-20	0-.5	4.5-5	0-.5	0-.5
DATE COLLECTED:	09-JAN-92	08-JAN-92	08-JAN-92	07-JAN-92	05-JAN-92
NORTH COORDINATE:	483300	483300	483300	483300	483334
EAST COORDINATE:	1379500	1380000	1380000	1380500	1381000
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				21.00 %		NV				26.00 %		NV	19.00 %		NV
CATION EXCHANGE CAPACITY	13.05 MEQ/L		J				2.93 MEQ/L		J						

000420

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	101358	100782	100788	100814	101334
TASK:	03.01.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1737	1738	1738	1738	1739
DEPTH:	0-.5	0-.5	5-5.5	29.5-30	0-.5
DATE COLLECTED:	06-JAN-92	02-JAN-92	02-JAN-92	04-JAN-92	02-JAN-92
NORTH COORDINATE:	483306	483539	483539	483539	482400
EAST COORDINATE:	1381957	1382635	1382635	1382635	1383000
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	24.00 %		NV	19.00 %		NV							19.00 %		NV
CATION EXCHANGE CAPACITY							3.12 MEQ/L		J	1.40 MEQ/L		J			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	100753			100759			100772			101310			101331		
TASK:	03.01.01			03.01.01			03.01.01			03.01.01			03.01.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1740			1740			1740			1741			1741		
DEPTH:	0-.5			7-7.5			17.5-18			0-.5			28.5-29		
DATE COLLECTED:	21-DEC-91			21-DEC-91			21-DEC-91			20-DEC-91			21-DEC-91		
NORTH COORDINATE:	481800			481800			481800			480700			480700		
EAST COORDINATE:	1383000			1383000			1383000			1383000			1383000		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV							18.00 %		NV			
CATION EXCHANGE CAPACITY				2.14 MEQ/L		J	1.73 MEQ/L		J				1.31 MEQ/L		J

000422

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	100715			100718			100733			101287			101297		
TASK:	03.01.01			03.01.01			03.01.01			03.01.01			03.01.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1742			1742			1742			1743			1743		
DEPTH:	0-.5			4.5-5			17-17.5			4.5-5			14.5-15		
DATE COLLECTED:	18-DEC-91			18-DEC-91			18-DEC-91			18-DEC-91			18-DEC-91		
NORTH COORDINATE:	480213			480213			480213			479100			479100		
EAST COORDINATE:	1383000			1383000			1383000			1383000			1383000		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV												
CATION EXCHANGE CAPACITY				4.32 MEQ/L		J	6.08 MEQ/L		J	1.31 MEQ/L		J	1.28 MEQ/L		J

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	100701	100705	101251	101279	100687
TASK:	03.01.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1744	1744	1745	1745	1746
DEPTH:	0-.5	5-5.5	0-.5	26.5-27	0-.5
DATE COLLECTED:	17-DEC-91	17-DEC-91	16-DEC-91	17-DEC-91	16-DEC-91
NORTH COORDINATE:	478500	478500	478500	478500	478000
EAST COORDINATE:	1383000	1383000	1382000	1382000	1382500
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.00 %		NV				18.00 %		NV				18.00 %		NV
CATION EXCHANGE CAPACITY				0.80 MEQ/L		J				0.42 MEQ/L		J			

000424

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	100691	101244	101236	100651	100678
TASK:	03.01.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1746	1747	1747	1748	1748
DEPTH:	5-5.5	0-.5	17.5-18	0-.5	31.5-32
DATE COLLECTED:	16-DEC-91	12-DEC-91	10-DEC-91	09-DEC-91	11-DEC-91
NORTH COORDINATE:	478000	477600	477600	477300	477300
EAST COORDINATE:	1382500	1382500	1382500	1382500	1382500
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				18.00 %		NV				20.00 %		NV			
CATION EXCHANGE CAPACITY	1.62 MEQ/L		J				6.37 MEQ/L		J				0.92 MEQ/L		J

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	057483	057451	057452	065508	065503
TASK:	3.7	3.7	3.7	04.06	04.06
LAB:	IT/RSL	IT	IT	IT	IT
WELL OR BORING NUMBER:	1778	1778	1778	1779	1783
DEPTH:	-	4-4.5	4.5-5	-	-
DATE COLLECTED:	12-FEB-91	05-FEB-91	05-FEB-91	15-AUG-91	12-AUG-91
NORTH COORDINATE:	480305.19	480305.19	480305.19	480592.55	480690.77
EAST COORDINATE:	1381672.31	1381672.31	1381672.31	1380159.3	1380507.82
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				9.00 % MOISTURE		NV	9.00 % MOISTURE		NV						
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U							1.80 UG/L		U	1.80 UG/L		UJ
2,4-D	12.00 UG/L		U							10.00 UG/L		U	10.00 UG/L		UJ
INORGANICS															
ARSENIC	0.23 MG/L		-							0.10 MG/L		U	0.07 MG/L		U
BARIUM	1.94 MG/L		J							0.56 MG/L		-	0.74 MG/L		-
CADMIUM	0.02 MG/L		-							0.01 MG/L		-	0.01 MG/L		-
CHROMIUM	0.03 MG/L		-							0.08 MG/L		-	0.08 MG/L		-
LEAD	0.12 MG/L		U							0.11 MG/L		-	0.07 MG/L		-
MERCURY	0.00 MG/L		U							0.00 MG/L		U	0.00 MG/L		U
SELENIUM	0.24 MG/L		U							0.16 MG/L		U	0.13 MG/L		U
SILVER	0.07 MG/L		-							0.07 MG/L		-	0.07 MG/L		-
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U							0.50 UG/L		U	0.50 UG/L		UJ
CHLORDANE	1.00 UG/L		U												
ENDRIN	0.10 UG/L		U							0.10 UG/L		U	0.10 UG/L		UJ
GAMMA-BHC (LINDANE)	0.05 UG/L		U							0.05 UG/L		U	0.05 UG/L		UJ
GAMMA-CHLORDANE	0.50 UG/L		U							0.50 UG/L		U	0.50 UG/L		UJ
HEPTACHLOR	0.05 UG/L		U							0.05 UG/L		U	0.05 UG/L		UJ

SAMPLE NUMBER:	057483			057451			057452			065508			065503		
LAB:	IT/RSL									IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE	0.05 UG/L		U							0.05 UG/L		U	0.05 UG/L		UJ
METHOXYCHLOR	0.50 UG/L		U							0.50 UG/L		U	0.50 UG/L		UJ
TOXAPHENE	1.00 UG/L		U							1.00 UG/L		U	1.00 UG/L		UJ
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U							100.00 UG/L		U	100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
2,4-DINITROTOLUENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
2-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
4-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
HEXACHLOROBENZENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
HEXACHLOROBUTADIENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
HEXACHLOROETHANE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
NITROBENZENE	20.00 UG/L		U							20.00 UG/L		U	20.00 UG/L		UJ
PENTACHLOROPHENOL	100.00 UG/L		U							100.00 UG/L		U	100.00 UG/L		UJ
PYRIDINE	20.00 UG/L		U							20.00 UG/L		R	20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
1,2-DICHLOROETHANE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
2-BUTANONE	10.00 UG/L		U							4.00 UG/L		U	10.00 UG/L		UJ
BENZENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
CARBON TETRACHLORIDE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
CHLOROBENZENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
CHLOROFORM	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
TETRACHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
TRICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U	5.00 UG/L		R
VINYL CHLORIDE	10.00 UG/L		U							10.00 UG/L		U	10.00 UG/L		R

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	065505	065511	099684	099685	067123
TASK:	04.06	04.06	40.03.02	40.03.02	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1784	1785	1790	1790	1791
DEPTH:	-	-	-5	-5	-
DATE COLLECTED:	12-AUG-91	21-AUG-91	17-JUN-91	17-JUN-91	25-JUN-91
NORTH COORDINATE:	480678.39	480270.45	480513.75	480513.75	477812.99
EAST COORDINATE:	1380546.32	1380260.86	1378532.49	1378532.49	1378970.18
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							11.00 %		NV	11.00 %		NV			
ALKALINITY AS CACO3													43.00 MG/L		J
AMMONIA													0.10 MG/L		U
CHLORIDE													1.40 MG/L		J
FLUORIDE													0.60 MG/L		-
NITRATE													2.49 MG/L		J
PH													7.38 SU		-
PHOSPHATE													1.09 MG/L		-
SULFATE													82.30 MG/L		-
TOTAL ORGANIC CARBON													3.95 MG/L		J
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		UJ	1.80 UG/L		U									
2,4-D	10.00 UG/L		UJ	10.00 UG/L		U									
INORGANICS															
ARSENIC	0.10 MG/L		U	0.15 MG/L		U									
BARIUM	1.11 MG/L		-	0.90 MG/L		-									
CADMIUM	0.01 MG/L		-	0.01 MG/L		-									
CHROMIUM	0.08 MG/L		-	0.09 MG/L		-									
LEAD	0.06 MG/L		-	0.09 MG/L		-									
MERCURY	0.00 MG/L		U	0.00 MG/L		U									
SELENIUM	0.11 MG/L		U	0.14 MG/L		U									
SILVER	0.07 MG/L		-	0.08 MG/L		-									
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UJ	20.00 UG/L		U									

SAMPLE NUMBER:	065505			065511			099684			099685			067123		
LAB:	IT			IT											
SUFFIX/FILTERFLAG:	R-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		UJ	0.50 UG/L		U									
ENDRIN	0.10 UG/L		UJ	0.10 UG/L		U									
GAMMA-BHC (LINDANE)	0.05 UG/L		UJ	0.05 UG/L		U									
GAMMA-CHLORDANE	0.50 UG/L		UJ	0.50 UG/L		U									
HEPTACHLOR	0.05 UG/L		UJ	0.05 UG/L		U									
HEPTACHLOR EPOXIDE	0.05 UG/L		UJ	0.05 UG/L		U									
METHOXYCHLOR	0.50 UG/L		UJ	0.50 UG/L		U									
TOXAPHENE	1.00 UG/L		UJ	1.00 UG/L		U									
RADIONUCLIDES															
THORIUM-230													1.90 PCI/L		UJ
THORIUM-232													1.30 PCI/L		U
THORIUM, TOTAL													12.10 UG/L		U
THORIUM-228													1.10 PCI/L		UJ
PLUTONIUM-239/240													1.00 PCI/L		U
PLUTONIUM-238													1.00 PCI/L		U
RUTHENIUM-106													1183.00 PCI/L		UJ
CESIUM-137													20.00 PCI/L		R
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UJ	20.00 UG/L		U									
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UJ	100.00 UG/L		U									
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UJ	20.00 UG/L		U									
2,4-DINITROTOLUENE	20.00 UG/L		UJ	20.00 UG/L		U									
2-METHYLPHENOL	20.00 UG/L		UJ	20.00 UG/L		U									
4-METHYLPHENOL	20.00 UG/L		UJ	20.00 UG/L		U									
HEXACHLOROBENZENE	20.00 UG/L		UJ	20.00 UG/L		U									
HEXACHLOROBUTADIENE	20.00 UG/L		UJ	20.00 UG/L		U									
HEXACHLOROETHANE	20.00 UG/L		UJ	20.00 UG/L		U									
NITROBENZENE	20.00 UG/L		UJ	20.00 UG/L		U									
PENTACHLOROPHENOL	100.00 UG/L		UJ	100.00 UG/L		U									
PYRIDINE	20.00 UG/L		UJ	20.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		R	5.00 UG/L		U									
1,2-DICHLOROETHANE	5.00 UG/L		R	5.00 UG/L		U									
2-BUTANONE	10.00 UG/L		UJ	10.00 UG/L		U									
BENZENE	5.00 UG/L		R	5.00 UG/L		U									
CARBON TETRACHLORIDE	5.00 UG/L		R	5.00 UG/L		U									
CHLOROBENZENE	5.00 UG/L		R	5.00 UG/L		U									
CHLOROFORM	5.00 UG/L		R	5.00 UG/L		U									
TETRACHLOROETHENE	5.00 UG/L		R	5.00 UG/L		U									

SAMPLE NUMBER:	065505			065511			099684			099685			067123		
LAB:	IT			IT											
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRICHLOROETHENE	5.00 UG/L		R	5.00 UG/L		U									
VINYL CHLORIDE	10.00 UG/L		R	10.00 UG/L		U									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067124	067125	067128	067122	067360
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1791	1791	1791	1791	1792
DEPTH:	-	-	-	28.5-30	-
DATE COLLECTED:	25-JUN-91	25-JUN-91	25-JUN-91	25-JUN-91	22-AUG-91
NORTH COORDINATE:	477812.99	477812.99	477812.99	477812.99	477280.15
EAST COORDINATE:	1378970.18	1378970.18	1378970.18	1378970.18	1379372.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE										18.00 %		NV			
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U				1.80 UG/L		U				1.80 UG/L		U
2,4-D	10.00 UG/L		U				10.00 UG/L		U				10.00 UG/L		U
INORGANICS															
ARSENIC	0.25 MG/L		U				0.08 MG/L		-				0.25 MG/L		U
BARIUM	2.15 MG/L		-				0.35 MG/L		-				0.97 MG/L		-
CADMIUM	0.02 MG/L		J				0.00 MG/L		-				0.01 MG/L		U
CHROMIUM	0.08 MG/L		-				0.03 MG/L		-				0.09 MG/L		-
LEAD	0.10 MG/L		-				0.04 MG/L		U				0.08 MG/L		-
MERCURY	0.00 MG/L		U				0.00 MG/L		U				0.00 MG/L		U
SELENIUM	0.24 MG/L		-				0.08 MG/L		U				0.12 MG/L		-
SILVER	0.07 MG/L		J				0.02 MG/L		J				0.08 MG/L		-
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U				0.50 UG/L		U				0.50 UG/L		UJ
ENDRIN	0.10 UG/L		U				0.10 UG/L		U				0.10 UG/L		UR
GAMMA-BHC (LINDANE)	0.05 UG/L		U				0.05 UG/L		U				0.05 UG/L		UJ
GAMMA-CHLORDANE	0.50 UG/L		U				0.50 UG/L		U				0.50 UG/L		UJ
HEPTACHLOR	0.05 UG/L		U				0.05 UG/L		U				0.05 UG/L		UR
HEPTACHLOR EPOXIDE	0.05 UG/L		U				0.05 UG/L		U				0.05 UG/L		UR

000431

9704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067124			067125			067128			067122			067360		
LAB:	IT						IT						IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			-			R-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR	0.50 UG/L		U				0.50 UG/L		U				0.50 UG/L		UR
TOXAPHENE	1.00 UG/L		U				1.00 UG/L		U				1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UR				100.00 UG/L		UR				100.00 UG/L		U
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
2,4-DINITROTOLUENE	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
2-METHYLPHENOL	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
4-METHYLPHENOL	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
HEXACHLOROBENZENE	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
HEXACHLOROBUTADIENE	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
HEXACHLOROETHANE	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
NITROBENZENE	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
PENTACHLOROPHENOL	100.00 UG/L		UR				100.00 UG/L		UR				100.00 UG/L		U
PYRIDINE	20.00 UG/L		UR				20.00 UG/L		UR				20.00 UG/L		U
VOLATILES															
1,1,1-TRICHLOROETHANE				5.00 UG/L		U									
1,1,2,2-TETRACHLOROETHANE				5.00 UG/L		U									
1,1,2-TRICHLOROETHANE				5.00 UG/L		U									
1,1-DICHLOROETHANE				5.00 UG/L		U									
1,1-DICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
1,2-DICHLOROETHANE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
1,2-DICHLOROETHENE (TOTAL)				5.00 UG/L		U									
1,2-DICHLOROPROPANE				5.00 UG/L		U									
2-BUTANONE	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U				2.00 UG/L		J
2-HEXANONE				10.00 UG/L		U									
4-METHYL-2-PENTANONE				10.00 UG/L		U									
ACETONE				9.00 UG/L		U									
BENZENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
BROMODICHLOROMETHANE				5.00 UG/L		U									
BROMOFORM				5.00 UG/L		U									
BROMOMETHANE				10.00 UG/L		U									
CARBON DISULFIDE				5.00 UG/L		U									
CARBON TETRACHLORIDE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		UJ
CHLOROBENZENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
CHLOROETHANE				10.00 UG/L		U									
CHLOROFORM	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
CHLOROMETHANE				10.00 UG/L		U									
CIS-1,3-DICHLOROPROPENE				5.00 UG/L		U									
DIBROMOCHLOROMETHANE				5.00 UG/L		U									
ETHYLBENZENE				5.00 UG/L		U									

SAMPLE NUMBER:	067124			067125			067128			067122			067360		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
METHYLENE CHLORIDE				10.00 UG/L		-									
STYRENE				5.00 UG/L		U									
TETRACHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
TOLUENE				5.00 UG/L		U									
TRANS-1,3-DICHLOROPROPENE				5.00 UG/L		U									
TRICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
VINYL ACETATE				10.00 UG/L		U									
VINYL CHLORIDE	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U				10.00 UG/L		U
XYLENES, TOTAL				5.00 UG/L		U									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067342	067343	067346	067350	067353
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1792	1792	1792	1792	1792
DEPTH:	0-1.5	1.5-3	6-7.5	12-13.5	16.5-18
DATE COLLECTED:	21-AUG-91	21-AUG-91	21-AUG-91	21-AUG-91	22-AUG-91
NORTH COORDINATE:	477280.15	477280.15	477280.15	477280.15	477280.15
EAST COORDINATE:	1379372.54	1379372.54	1379372.54	1379372.54	1379372.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	0.00 % MOISTURE		NV	10.00 %		NV	7.00 % MOISTURE		NV	15.00 %		NV	15.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067356	067362	067361	067333	067335
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1792	1792	1793	1793	1793
DEPTH:	21.5-23	28-29.5	-	3-4.5	6-7.5
DATE COLLECTED:	22-AUG-91	22-AUG-91	22-AUG-91	15-AUG-91	20-AUG-91
NORTH COORDINATE:	477280.15	477280.15	477464.98	477464.98	477464.98
EAST COORDINATE:	1379372.54	1379372.54	1379446.76	1379446.76	1379446.76
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV							7.00 % MOISTURE		NV			
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U	1.80 UG/L		U				1.80 UG/L		U
2,4-D				10.00 UG/L		U	10.00 UG/L		U				10.00 UG/L		U
INORGANICS															
ARSENIC				0.25 MG/L		U	0.25 MG/L		U				0.25 MG/L		U
BARIUM				0.87 MG/L		-	0.56 % RECOVERY		NV				0.69 MG/L		-
CADMIUM				0.01 MG/L		U	0.01 % RECOVERY		UNV				0.02 MG/L		-
CHROMIUM				0.12 MG/L		-	0.08 % RECOVERY		NV				0.12 MG/L		-
LEAD				0.15 MG/L		-	0.05 % RECOVERY		NV				0.16 MG/L		-
MERCURY				0.00 MG/L		U	0.00 MG/L		U				0.00 MG/L		U
SELENIUM				0.16 MG/L		-	0.10 MG/L		-				0.17 MG/L		-
SILVER				0.10 MG/L		-	0.07 % RECOVERY		NV				0.09 MG/L		-
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		UJ	0.50 UG/L		UJ				0.50 UG/L		UJ
CHLORDANE													0.50 UG/L		U
ENDRIN				0.10 UG/L		UR	0.10 UG/L		U				0.12 UG/L		UR
GAMMA-BHC (LINDANE)				0.05 UG/L		UJ	0.05 UG/L		UJ				0.05 UG/L		UJ
GAMMA-CHLORDANE				0.50 UG/L		UR	0.50 UG/L		UR				0.50 UG/L		UJ
HEPTACHLOR				0.05 UG/L		UR	0.05 UG/L		U				0.06 UG/L		UR

000435

5704

SAMPLE NUMBER:	067356			067362			067361			067333			067335		
LAB:				IT			IT						IT		
SUFFIX/FILTERFLAG:	-			R-NA			NONE-NA			-			R-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				0.05 UG/L		UR	0.05 UG/L		UR				0.05 UG/L		UJ
METHOXYCHLOR				0.50 UG/L		U	0.50 UG/L		UR				0.62 UG/L		UR
TOXAPHENE				1.00 UG/L		U	1.00 UG/L		U				1.20 UG/L		UR
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U				100.00 UG/L		U
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
2,4-DINITROTOLUENE				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
2-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
4-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
HEXACHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
HEXACHLOROBUTADIENE				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
HEXACHLOROETHANE				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
NITROBENZENE				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
PENTACHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U				100.00 UG/L		U
PYRIDINE				20.00 UG/L		U	20.00 UG/L		U				20.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
2-BUTANONE				3.00 UG/L		J	2.00 UG/L		J				2.00 UG/L		J
BENZENE				5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
CARBON TETRACHLORIDE				5.00 UG/L		UJ	5.00 UG/L		UJ				5.00 UG/L		UJ
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
CHLOROFORM				5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
TETRACHLOROETHENE				1.00 UG/L		J	5.00 UG/L		U				5.00 UG/L		U
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U				5.00 UG/L		U
VINYL CHLORIDE				10.00 UG/L		U	10.00 UG/L		U				10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067324	067326	067328	067367	067369
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1794	1794	1794	1795	1795
DEPTH:	0-1	1.5-2	2-2.5	0-1	2-3
DATE COLLECTED:	13-AUG-91	13-AUG-91	13-AUG-91	23-AUG-91	23-AUG-91
NORTH COORDINATE:	477954.24	477954.24	477954.24	477941.43	477941.43
EAST COORDINATE:	1379281.59	1379281.59	1379281.59	1379648.49	1379648.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV				7.00 % MOISTURE		NV	13.00 %		NV			
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U				1.80 UG/L		U			
2,4-D				10.00 UG/L		U				10.00 UG/L		U			
INORGANICS															
ARSENIC				0.10 MG/L		U				0.15 MG/L		U			
BARIUM				0.62 MG/L		-				0.90 MG/L		-			
CADMIUM				0.01 MG/L		-				0.01 MG/L		-			
CHROMIUM				0.08 MG/L		-				0.09 MG/L		-			
LEAD				0.08 MG/L		-				0.08 MG/L		-			
MERCURY				0.00 MG/L		U				0.00 MG/L		U			
SELENIUM				0.14 MG/L		-				0.13 MG/L		-			
SILVER				0.07 MG/L		-				0.08 MG/L		-			
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		U			
CHLORDANE										0.50 UG/L		U			
ENDRIN				0.10 UG/L		U				0.10 UG/L		U			
GAMMA-BHC (LINDANE)				0.05 UG/L		U				0.05 UG/L		U			
GAMMA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		U			
HEPTACHLOR				0.05 UG/L		U				0.05 UG/L		U			

000437

5704

SAMPLE NUMBER:	067324			067326			067328			067367			067369		
LAB:				IT						IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE				0.05 UG/L		U				0.05 UG/L		U			
METHOXYCHLOR				0.50 UG/L		U				0.50 UG/L		U			
TOXAPHENE				1.00 UG/L		U				1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U				20.00 UG/L		U			
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U				100.00 UG/L		UR			
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U				20.00 UG/L		UR			
2,4-DINITROTOLUENE				20.00 UG/L		U				20.00 UG/L		U			
2-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		UR			
4-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROBENZENE				20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROBUTADIENE				20.00 UG/L		U				20.00 UG/L		U			
HEXACHLOROETHANE				20.00 UG/L		U				20.00 UG/L		U			
NITROBENZENE				20.00 UG/L		U				20.00 UG/L		U			
PENTACHLOROPHENOL				100.00 UG/L		U				100.00 UG/L		U			
PYRIDINE				20.00 UG/L		U				20.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U							5.00 UG/L		U
1,2-DICHLOROETHANE				5.00 UG/L		U							5.00 UG/L		U
2-BUTANONE				2.00 UG/L		U							10.00 UG/L		R
BENZENE				5.00 UG/L		U							5.00 UG/L		U
CARBON TETRACHLORIDE				5.00 UG/L		U							5.00 UG/L		U
CHLOROBENZENE				5.00 UG/L		U							5.00 UG/L		U
CHLOROFORM				5.00 UG/L		U							5.00 UG/L		U
TETRACHLOROETHENE				5.00 UG/L		U							5.00 UG/L		U
TRICHLOROETHENE				5.00 UG/L		U							5.00 UG/L		U
VINYL CHLORIDE				10.00 UG/L		U							10.00 UG/L		UJ

000438

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067370	039000	039001	039009	039010
TASK:	20.03.01	04.08	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1795	1796	1796	1796	1796
DEPTH:	3-4	0-.5	0-.5	5-7	9-11
DATE COLLECTED:	23-AUG-91	21-SEP-91	21-SEP-91	22-SEP-91	22-SEP-91
NORTH COORDINATE:	477941.43	480294.65	480294.65	480294.65	480294.65
EAST COORDINATE:	1379648.49	1380415.59	1380415.59	1380415.59	1380415.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV				10.00 %		NV	17.30 %		-	18.10 %		-
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		UJ									
2,4-D				10.00 UG/L		UJ									
INORGANICS															
ARSENIC				0.25 MG/L		UJ									
BARIUM				0.55 MG/L		J									
CADMIUM				0.01 MG/L		U									
CHROMIUM				0.08 MG/L		J									
LEAD				0.05 MG/L		J									
MERCURY				0.00 MG/L		U									
SELENIUM				0.08 MG/L		UJ									
SILVER				0.07 MG/L		J									
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		UJ									
ENDRIN				0.10 UG/L		UJ									
GAMMA-BHC (LINDANE)				0.05 UG/L		UJ									
GAMMA-CHLORDANE				0.50 UG/L		UJ									
HEPTACHLOR				0.05 UG/L		UJ									
HEPTACHLOR EPOXIDE				0.05 UG/L		UJ									

000439

5704

SAMPLE NUMBER:	067370			039000			039001			039009			039010		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR				0.50 UG/L		UJ									
TOXAPHENE				1.00 UG/L		UJ									
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		UJ									
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U									
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U									
2,4-DINITROTOLUENE				20.00 UG/L		UJ									
2-METHYLPHENOL				20.00 UG/L		U									
4-METHYLPHENOL				20.00 UG/L		U									
HEXACHLOROBENZENE				20.00 UG/L		U									
HEXACHLOROBUTADIENE				20.00 UG/L		U									
HEXACHLOROETHANE				20.00 UG/L		U									
NITROBENZENE				20.00 UG/L		U									
PENTACHLOROPHENOL				100.00 UG/L		U									
PYRIDINE				20.00 UG/L		UJ									
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U									
1,2-DICHLOROETHANE				5.00 UG/L		U									
2-BUTANONE				10.00 UG/L		UJ									
BENZENE				5.00 UG/L		U									
CARBON TETRACHLORIDE				5.00 UG/L		U									
CHLOROBENZENE				5.00 UG/L		U									
CHLOROFORM				5.00 UG/L		U									
TETRACHLOROETHENE				1.00 UG/L		J									
TRICHLOROETHENE				5.00 UG/L		U									
VINYL CHLORIDE				10.00 UG/L		U									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	039011	039082	039083	039088	039089
TASK:	04.08	04.08	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1796	1797	1797	1797	1797
DEPTH:	13-15	0-.5	0-.5	5-8	9-12
DATE COLLECTED:	22-SEP-91	22-OCT-91	22-OCT-91	23-OCT-91	23-OCT-91
NORTH COORDINATE:	480294.65	480209.16	480209.16	480209.16	480209.16
EAST COORDINATE:	1380415.59	1380460.71	1380460.71	1380460.71	1380460.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.80 %		-				8.00 % MOISTURE		NV	18.50 %		-	22.60 %		-
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U									
2,4-D				10.00 UG/L		U									
INORGANICS															
ARSENIC				0.05 MG/L		UJ									
BARIUM				0.73 MG/L		J									
CADMIUM				0.01 MG/L		J									
CHROMIUM				0.10 MG/L		J									
LEAD				0.07 MG/L		J									
MERCURY				0.00 MG/L		U									
SELENIUM				0.08 MG/L		UJ									
SILVER				0.08 MG/L		J									
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U									
ENDRIN				0.10 UG/L		U									
GAMMA-BHC (LINDANE)				0.05 UG/L		U									
GAMMA-CHLORDANE				0.50 UG/L		U									
HEPTACHLOR				0.05 UG/L		U									
HEPTACHLOR EPOXIDE				0.05 UG/L		U									

000441

5704

SAMPLE NUMBER:	039011			039082			039083			039088			039089		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR				0.50 UG/L		U									
TOXAPHENE				1.00 UG/L		U									
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		UJ									
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U									
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U									
2,4-DINITROTOLUENE				20.00 UG/L		UJ									
2-METHYLPHENOL				20.00 UG/L		U									
4-METHYLPHENOL				20.00 UG/L		U									
HEXACHLOROBENZENE				20.00 UG/L		UJ									
HEXACHLOROBUTADIENE				20.00 UG/L		U									
HEXACHLOROETHANE				20.00 UG/L		U									
NITROBENZENE				20.00 UG/L		U									
PENTACHLOROPHENOL				100.00 UG/L		U									
PYRIDINE				20.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U									
1,2-DICHLOROETHANE				5.00 UG/L		U									
2-BUTANONE				3.00 UG/L		J									
BENZENE				5.00 UG/L		U									
CARBON TETRACHLORIDE				5.00 UG/L		U									
CHLOROBENZENE				5.00 UG/L		U									
CHLOROFORM				5.00 UG/L		U									
TETRACHLOROETHENE				5.00 UG/L		U									
TRICHLOROETHENE				5.00 UG/L		U									
VINYL CHLORIDE				10.00 UG/L		U									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	039090	039091	039075	039098	039016
TASK:	04.08	04.08	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1797	1797	1798	1799	1800
DEPTH:	13-16	17-20	0-.5	0-.5	0-.5
DATE COLLECTED:	23-OCT-91	23-OCT-91	17-OCT-91	24-OCT-91	02-OCT-91
NORTH COORDINATE:	480209.16	480209.16	480202.72	480200.16	480225.03
EAST COORDINATE:	1380460.71	1380460.71	1380458.88	1380472.37	1380391.58
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.80 %		-	29.70 %		-									
HERBICIDES															
2,4,5-TP (SILVEX)							1.80 UG/L		U	1.80 UG/L		U	2.40 UG/L		U
2,4-D							10.00 UG/L		U	10.00 UG/L		U	14.00 UG/L		U
INORGANICS															
ARSENIC							0.25 MG/L		UJ	0.25 MG/L		UJ	0.25 MG/L		UJ
BARIUM							0.95 MG/L		J	1.28 MG/L		J	1.04 MG/L		J
CADMIUM							0.01 MG/L		U	0.01 MG/L		U	0.01 MG/L		-
CHROMIUM							0.09 MG/L		J	0.09 MG/L		J	0.12 MG/L		J
LEAD							0.06 MG/L		J	0.06 MG/L		J	0.16 MG/L		J
MERCURY							0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
SELENIUM							0.08 MG/L		UJ	0.09 MG/L		J	0.13 MG/L		J
SILVER							0.08 MG/L		J	0.07 MG/L		J	0.10 MG/L		J
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		UJ
ENDRIN							0.10 UG/L		U	0.10 UG/L		U	0.10 UG/L		UJ
GAMMA-BHC (LINDANE)							0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ
GAMMA-CHLORDANE							0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		UJ
HEPTACHLOR							0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ
HEPTACHLOR EPOXIDE							0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ

000443

8704

SAMPLE NUMBER:	039090			039091			039075			039098			039016		
LAB:							IT			IT			IT		
SUFFIX/FILTERFLAG:	-			-			NONE-NA			NONE-NA			R-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR							0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		UJ
TOXAPHENE							1.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		UJ
SEMIVOLATILES															
1,4-DICHLOROBENZENE							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		U
2,4,5-TRICHLOROPHENOL							100.00 UG/L		U	100.00 UG/L		U	100.00 UG/L		U
2,4,6-TRICHLOROPHENOL							20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U
2,4-DINITROTOLUENE							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		U
2-METHYLPHENOL							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		U
4-METHYLPHENOL							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		U
HEXACHLOROBENZENE							20.00 UG/L		UJ	20.00 UG/L		U	20.00 UG/L		R
HEXACHLOROBUTADIENE							20.00 UG/L		UJ	20.00 UG/L		UJ	20.00 UG/L		U
HEXACHLOROETHANE							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		U
NITROBENZENE							20.00 UG/L		UJ	20.00 UG/L		UJ	20.00 UG/L		U
PENTACHLOROPHENOL							100.00 UG/L		U	100.00 UG/L		U	100.00 UG/L		R
PYRIDINE							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE							5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE							10.00 UG/L		U	4.00 UG/L		U	10.00 UG/L		U
BENZENE							5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE							5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE							5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM							5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE							1.00 UG/L		J	5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE							5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE							10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	039052	039059	039060	039069	039070
TASK:	04.08	04.08	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1801	1802	1802	1802	1802
DEPTH:	0-.5	0-.5	0-.5	5-8	9-12
DATE COLLECTED:	10-OCT-91	15-OCT-91	15-OCT-91	16-OCT-91	16-OCT-91
NORTH COORDINATE:	480186.51	480194.47	480194.47	480194.47	480194.47
EAST COORDINATE:	1380344.99	1380368.08	1380368.08	1380368.08	1380368.08
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							12.00 %		NV	14.10 %		NV	20.40 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U	1.80 UG/L		U									
2,4-D	10.00 UG/L		U	10.00 UG/L		U									
INORGANICS															
ARSENIC	0.25 MG/L		U	0.25 MG/L		UJ									
BARIUM	0.79 MG/L		-	0.97 MG/L		J									
CADMIUM	0.01 MG/L		U	0.01 MG/L		U									
CHROMIUM	0.09 MG/L		-	0.09 MG/L		J									
LEAD	0.08 MG/L		-	0.06 MG/L		J									
MERCURY	0.00 MG/L		U	0.00 MG/L		U									
SELENIUM	0.10 MG/L		-	0.08 MG/L		UJ									
SILVER	0.08 MG/L		-	0.08 MG/L		J									
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		R	20.00 UG/L		U									
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U									
ENDRIN	0.10 UG/L		U	0.10 UG/L		U									
GAMMA-BHC (LINDANE)	0.05 UG/L		U	0.05 UG/L		U									
GAMMA-CHLORDANE	0.50 UG/L		U	0.50 UG/L		U									
HEPTACHLOR	0.05 UG/L		U	0.05 UG/L		U									
HEPTACHLOR EPOXIDE	0.05 UG/L		U	0.05 UG/L		U									

000445

5704

SAMPLE NUMBER:	039052			039059			039060			039069			039070		
LAB:	IT			IT			-			-			-		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA											
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR	0.50 UG/L		U	0.50 UG/L		U									
TOXAPHENE	1.00 UG/L		U	1.00 UG/L		U									
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		R	20.00 UG/L		UJ									
2,4,5-TRICHLOROPHENOL	100.00 UG/L		R	100.00 UG/L		U									
2,4,6-TRICHLOROPHENOL	20.00 UG/L		R	20.00 UG/L		U									
2,4-DINITROTOLUENE	20.00 UG/L		R	20.00 UG/L		UJ									
2-METHYLPHENOL	20.00 UG/L		U	20.00 UG/L		U									
4-METHYLPHENOL	20.00 UG/L		R	20.00 UG/L		U									
HEXACHLOROBENZENE	20.00 UG/L		U	20.00 UG/L		U									
HEXACHLOROBUTADIENE	20.00 UG/L		U	20.00 UG/L		U									
HEXACHLOROETHANE	20.00 UG/L		U	20.00 UG/L		U									
NITROBENZENE	20.00 UG/L		U	20.00 UG/L		U									
PENTACHLOROPHENOL	100.00 UG/L		R	100.00 UG/L		U									
PYRIDINE	20.00 UG/L		R	20.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U									
1,2-DICHLOROETHANE	5.00 UG/L		U	5.00 UG/L		U									
2-BUTANONE	10.00 UG/L		J	10.00 UG/L		U									
BENZENE	5.00 UG/L		U	5.00 UG/L		U									
CARBON TETRACHLORIDE	5.00 UG/L		U	5.00 UG/L		U									
CHLOROBENZENE	5.00 UG/L		U	5.00 UG/L		U									
CHLOROFORM	5.00 UG/L		U	5.00 UG/L		U									
TETRACHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U									
TRICHLOROETHENE	1.00 UG/L		J	5.00 UG/L		U									
VINYL CHLORIDE	10.00 UG/L		U	10.00 UG/L		U									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	039071	039040	039028	039046	039034
TASK:	04.08	04.08	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1802	1803	1804	1806	1807
DEPTH:	13-16	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:	16-OCT-91	07-OCT-91	05-OCT-91	09-OCT-91	06-OCT-91
NORTH COORDINATE:	480194.47	480193.58	480192.9	480182.76	480181.42
EAST COORDINATE:	1380368.08	1380391.44	1380412.05	1380380.49	1380410.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.20 %		NV												
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U	1.80 UG/L		U	1.80 UG/L		UJ	1.80 UG/L		U
2,4-D				10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		UJ	10.00 UG/L		U
INORGANICS															
ARSENIC				0.25 MG/L		UJ	0.25 MG/L		UJ	0.25 MG/L		UJ	0.25 MG/L		UJ
BARIUM				1.10 MG/L		J	0.89 MG/L		UJ	0.50 MG/L		J	0.99 MG/L		J
CADMIUM				0.01 MG/L		U	0.02 MG/L		-	0.01 MG/L		U	0.01 MG/L		-
CHROMIUM				0.09 MG/L		J	0.14 MG/L		J	0.08 MG/L		J	0.13 MG/L		J
LEAD				0.07 MG/L		J	0.16 MG/L		J	0.08 MG/L		J	0.20 MG/L		J
MERCURY				0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
SELENIUM				0.08 MG/L		UJ	0.14 MG/L		J	0.09 MG/L		J	0.17 MG/L		J
SILVER				0.08 MG/L		J	0.11 MG/L		J	0.07 MG/L		J	0.10 MG/L		J
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U	110.00 UG/L		J	20.00 UG/L		U
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U
ENDRIN				0.10 UG/L		U	0.10 UG/L		U	0.10 UG/L		U	0.10 UG/L		U
GAMMA-BHC (LINDANE)				0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U
GAMMA-CHLORDANE				0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U
HEPTACHLOR				0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U
HEPTACHLOR EPOXIDE				0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U	0.05 UG/L		U

000447

5704

SAMPLE NUMBER:	039071			039040			039028			039046			039034		
LAB:				IT			IT			IT			IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR				0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U	0.50 UG/L		U
TOXAPHENE				1.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U	100.00 UG/L		U	14.00 UG/L		J	100.00 UG/L		U
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U	20.00 UG/L		U	14.00 UG/L		J	20.00 UG/L		U
2,4-DINITROTOLUENE				20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		R	20.00 UG/L		U
2-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U	110.00 UG/L		R	20.00 UG/L		U
4-METHYLPHENOL				20.00 UG/L		U	20.00 UG/L		U	72.00 UG/L		J	20.00 UG/L		U
HEXACHLOROBENZENE				20.00 UG/L		U	20.00 UG/L		R	190.00 UG/L		J	20.00 UG/L		R
HEXACHLOROBUTADIENE				20.00 UG/L		U	20.00 UG/L		U	100.00 UG/L		J	20.00 UG/L		U
HEXACHLOROETHANE				20.00 UG/L		U	20.00 UG/L		U	120.00 UG/L		J	20.00 UG/L		U
NITROBENZENE				20.00 UG/L		U	20.00 UG/L		U	160.00 UG/L		J	20.00 UG/L		U
PENTACHLOROPHENOL				100.00 UG/L		UJ	100.00 UG/L		R	19.00 UG/L		J	7.00 UG/L		U
PYRIDINE				20.00 UG/L		U	20.00 UG/L		U	120.00 UG/L		J	20.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE				10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		UJ	10.00 UG/L		U
BENZENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE				2.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE				10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067394	067396	067397	067402	067401
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1808	1808	1808	1808	1808
DEPTH:	3-4.5	7.5-9	9-10.5	0-12.7	15-16.5
DATE COLLECTED:	27-AUG-91	27-AUG-91	27-AUG-91	27-AUG-91	27-AUG-91
NORTH COORDINATE:	482142.91	482142.91	482142.91	482142.91	482142.91
EAST COORDINATE:	1379622.56	1379622.56	1379622.56	1379622.56	1379622.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	R-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	9.00 % MOISTURE		NV	19.00 %		NV							12.00 %		NV
ALKALINITY AS CACO3							48.00 MG/L		-	45.00 MG/L		-			
AMMONIA							0.10 MG/L		U	0.10 MG/L		-			
CHLORIDE							0.96 MG/L		-	0.93 MG/L		-			
FLUORIDE							1.50 MG/L		-	1.40 MG/L		-			
NITRATE							5.58 MG/L		-	5.58 MG/L		-			
PH							7.28 SU		-	7.22 SU		-			
PHOSPHATE							0.04 MG/L		-	0.03 MG/L		-			
SULFATE							9.19 MG/L		-	16.50 MG/L		-			
TOTAL ORGANIC CARBON							8.13 MG/L		-	4.38 MG/L		-			
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		U			
2,4-D										10.00 UG/L		U			
INORGANICS															
ALUMINUM							0.63 MG/L		-	0.97 MG/L		-			
ANTIMONY							0.03 MG/L		U	0.03 MG/L		U			
ARSENIC							0.05 MG/L		U	0.05 MG/L		U			
BARIUM							0.06 MG/L		-	0.16 MG/L		-			
BERYLLIUM							0.00 MG/L		U	0.00 MG/L		U			
CADMIUM							0.00 MG/L		U	0.00 MG/L		U			
CALCIUM							19.00 MG/L		-	17.30 MG/L		-			
CHROMIUM							0.01 MG/L		U	0.01 MG/L		U			
COBALT							0.01 MG/L		U	0.01 MG/L		U			
COPPER							0.01 MG/L		U	0.01 MG/L		U			
IRON							0.47 MG/L		-	0.82 MG/L		-			
LEAD							0.04 MG/L		U	0.00 MG/L		-			

000449

5704

SAMPLE NUMBER:	067394			067396			067397			067402			067401		
LAB:							IT			IT					
SUFFIX/FILTERFLAG:	-			-			-6-NA			-9-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM							4.46 MG/L		-	4.59 MG/L		-			
MANGANESE							0.00 MG/L		-	0.01 MG/L		-			
MERCURY							0.00 MG/L		U	0.00 MG/L		U			
MOLYBDENUM							0.01 MG/L		U	0.01 MG/L		U			
NICKEL							0.02 MG/L		U	0.02 MG/L		U			
POTASSIUM							0.27 MG/L		-	0.49 MG/L		-			
SELENIUM							0.08 MG/L		U	0.00 MG/L		U			
SILICON							2.98 MG/L		-	3.46 MG/L		-			
SILVER							0.01 MG/L		U	0.01 MG/L		U			
SODIUM							0.97 MG/L		-	2.28 MG/L		-			
THALLIUM							0.00 MG/L		U	0.00 MG/L		U			
VANADIUM							0.01 MG/L		U	0.01 MG/L		U			
ZINC							0.07 MG/L		-	0.18 MG/L		-			
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		U						
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		U			
ENDRIN										0.10 UG/L		U			
GAMMA-BHC (LINDANE)										0.05 UG/L		U			
GAMMA-CHLORDANE										0.50 UG/L		U			
HEPTACHLOR										0.05 UG/L		U			
HEPTACHLOR EPOXIDE										0.05 UG/L		U			
METHOXYCHLOR										0.50 UG/L		U			
TOXAPHENE										1.00 UG/L		U			
RADIONUCLIDES															
URANIUM-238							12.60 PCI/L	2.7	J	41.50 PCI/L	6.8	J			
URANIUM-234							8.74 PCI/L	2.18	R	24.20 PCI/L	4.7	R			
THORIUM-230							1.00 PCI/L		UJ	1.00 PCI/L		UJ			
RADIUM-226							1.00 PCI/L		U	1.00 PCI/L		U			
URANIUM-235/236							1.00 PCI/L		R	3.23 PCI/L	1.45	R			
THORIUM-232							1.00 PCI/L		U	1.00 PCI/L		U			
THORIUM, TOTAL							2.10 UG/L		U	4.00 UG/L		U			
RADIUM-228							3.00 PCI/L		UJ	3.00 PCI/L		UJ			
THORIUM-228							1.00 PCI/L		UJ	1.00 PCI/L		UJ			
NEPTUNIUM-237							1.00 PCI/L		UJ	1.00 PCI/L		U			
PLUTONIUM-239/240							1.00 PCI/L		U	1.00 PCI/L		U			
PLUTONIUM-238							1.00 PCI/L		U	1.00 PCI/L		U			
STRONTIUM-90							5.00 PCI/L		R	5.00 PCI/L		R			
TECHNETIUM-99							30.00 PCI/L		UJ	30.00 PCI/L		R			

000450

SAMPLE NUMBER:	067394			067396			067397			067402			067401		
LAB:							IT			IT					
SUFFIX/FILTERFLAG:	-			-			-9-NA			-9-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106							184.00 PCI/L		UJ	184.00 PCI/L		R			
CESIUM-137							22.00 PCI/L		UJ	20.00 PCI/L		R			
SEMIVOLATILES															
1,4-DICHLOROBENZENE							20.00 UG/L		U						
2,4,5-TRICHLOROPHENOL							100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL							20.00 UG/L		U						
2,4-DINITROTOLUENE							20.00 UG/L		U						
2-METHYLPHENOL							20.00 UG/L		U						
4-METHYLPHENOL							20.00 UG/L		U						
HEXACHLOROBENZENE							20.00 UG/L		U						
HEXACHLOROBUTADIENE							20.00 UG/L		U						
HEXACHLOROETHANE							20.00 UG/L		U						
NITROBENZENE							20.00 UG/L		U						
PENTACHLOROPHENOL							100.00 UG/L		U						
PYRIDINE							20.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U						
1,2-DICHLOROETHANE							5.00 UG/L		UJ						
2-BUTANONE							5.00 UG/L		J						
BENZENE							5.00 UG/L		U						
CARBON TETRACHLORIDE							5.00 UG/L		UJ						
CHLOROBENZENE							5.00 UG/L		UJ						
CHLOROFORM							5.00 UG/L		U						
TETRACHLOROETHENE							1.00 UG/L		J						
TRICHLOROETHENE							5.00 UG/L		U						
VINYL CHLORIDE							10.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067503	067504	067505	067507	067506
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1820	1820	1820	1820	1820
DEPTH:	1.5-3	3-4.5	6-7.5	0-9.5	9.5-12
DATE COLLECTED:	16-OCT-91	16-OCT-91	16-OCT-91	16-OCT-91	16-OCT-91
NORTH COORDINATE:	477414.33	477414.33	477414.33	477414.33	477414.33
EAST COORDINATE:	1379888.2	1379888.2	1379888.2	1379888.2	1379888.2
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV				21.00 %		NV				19.00 %		NV
ALKALINITY AS CACO3										28.00 MG/L		-			
AMMONIA										0.10 MG/L		U			
CHLORIDE										0.50 MG/L		UJ			
FLUORIDE										0.30 MG/L		J			
NITRATE										148.00 MG/L		J			
PHOSPHATE										0.13 MG/L		J			
SULFATE										30.30 MG/L		J			
HERBICIDES															
2,4,5-TP (SILVEX)										1.80 UG/L		U			
2,4-D										10.00 UG/L		U			
INORGANICS															
ALUMINUM										0.06 MG/L		U			
ANTIMONY										0.03 MG/L		U			
ARSENIC										0.05 MG/L		U			
BARIUM										0.21 MG/L		-			
BERYLLIUM										0.00 MG/L		U			
BORON										0.39 MG/L		U			
CADMIUM										0.00 MG/L		-			
CALCIUM										12.90 MG/L		-			
CHROMIUM										0.02 MG/L		-			
COBALT										0.01 MG/L		U			
COPPER										0.02 MG/L		-			
IRON										0.02 MG/L		U			
LEAD										0.04 MG/L		U			
MAGNESIUM										2.46 MG/L		-			

000452

SAMPLE NUMBER:	067503			067504			067505			067507			067506		
LAB:										IT-KNOX					
SUFFIX/FILTERFLAG:	-			-			-			-6-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MANGANESE										0.00 MG/L		U			
MERCURY										0.00 MG/L		U			
MOLYBDENUM										0.03 MG/L		-			
NICKEL										0.02 MG/L		U			
POTASSIUM										4.35 MG/L		-			
SELENIUM										0.08 MG/L		U			
SILICON										2.50 MG/L		-			
SILVER										0.02 MG/L		-			
SODIUM										1.48 MG/L		-			
THALLIUM										0.15 MG/L		U			
VANADIUM										0.02 MG/L		-			
ZINC										0.11 MG/L		U			
No sort code listed.															
3-METHYLPHENOL				20.00 UG/L		U									
PESTICIDES															
ALPHA-CHLORDANE										0.50 UG/L		U			
CHLORDANE										0.50 UG/L		U			
ENDRIN										0.10 UG/L		U			
GAMMA-BHC (LINDANE)										0.05 UG/L		U			
GAMMA-CHLORDANE										0.50 UG/L		U			
HEPTACHLOR										0.05 UG/L		U			
HEPTACHLOR EPOXIDE										0.05 UG/L		U			
METHOXYCHLOR										0.50 UG/L		U			
TOXAPHENE										1.00 UG/L		U			
RADIONUCLIDES															
URANIUM-238										27.20 PCI/L	4.1	-			
URANIUM-234										25.40 PCI/L	3.9	J			
THORIUM-230										1.02 PCI/L		J			
RADIUM-226										3.00 PCI/L		UJ			
URANIUM-235/236										2.72 PCI/L	.94	J			
THORIUM-232										1.00 PCI/L		U			
THORIUM, TOTAL										4.64 UG/L		-			
RADIUM-228										4.00 PCI/L		U			
THORIUM-228										1.00 PCI/L		UJ			
NEPTUNIUM-237										1.00 PCI/L		R			
PLUTONIUM-239/240										1.00 PCI/L		R			
PLUTONIUM-238										1.00 PCI/L		R			
STRONTIUM-90										5.00 PCI/L		U			
TECHNETIUM-99										30.00 PCI/L		U			

000453

8704

SAMPLE NUMBER:	067503			067504			067505			067507			067506		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			-9-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RUTHENIUM-106										150.00 PCI/L		R			
CESIUM-137										20.00 PCI/L		R			
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U									
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U									
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U									
2,4-DINITROTOLUENE				20.00 UG/L		U									
2-METHYLPHENOL				20.00 UG/L		U									
4-METHYLPHENOL				20.00 UG/L		U									
HEXACHLOROBENZENE				20.00 UG/L		U									
HEXACHLOROBUTADIENE				20.00 UG/L		U									
HEXACHLOROETHANE				20.00 UG/L		U									
NITROBENZENE				20.00 UG/L		U									
PENTACHLOROPHENOL				100.00 UG/L		U									
PYRIDINE				20.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U									
1,2-DICHLOROETHANE				5.00 UG/L		U									
2-BUTANONE				3.00 UG/L		J									
BENZENE				5.00 UG/L		U									
CARBON TETRACHLORIDE				5.00 UG/L		U									
CHLOROBENZENE				5.00 UG/L		U									
CHLOROFORM				5.00 UG/L		U									
TETRACHLOROETHENE				5.00 UG/L		U									
TRICHLOROETHENE				5.00 UG/L		U									
VINYL CHLORIDE				10.00 UG/L		U									

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	098397	098372	098363	098356	098358
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1836	1836	1837	1837	1837
DEPTH:	-	3-4	-	3-4	6-7
DATE COLLECTED:	09-JUL-92	06-JUL-92	01-JUL-92	01-JUL-92	01-JUL-92
NORTH COORDINATE:	481090.87	481090.87	480839.19	480839.19	480839.19
EAST COORDINATE:	1378734.69	1378734.69	1378727.1	1378727.1	1378727.1
QA TYPE:	DRILL CUTTINGS	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				13.00 %		NV				11.00 %		NV	11.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		UJ				1.80 UG/L		U						
2,4-D	10.00 UG/L		UJ				10.00 UG/L		U						
INORGANICS															
ARSENIC	0.05 MG/L		UJ				0.25 MG/L		U						
BARIUM	0.50 MG/L		J				0.53 MG/L		-						
CADMIUM	0.01 MG/L		UJ				0.03 MG/L		U						
CHROMIUM	0.01 MG/L		UJ				0.01 MG/L		U						
LEAD	0.04 MG/L		UJ				0.20 MG/L		U						
MERCURY	0.00 MG/L		U				0.00 MG/L		U						
SELENIUM	0.08 MG/L		UJ				0.08 MG/L		U						
SILVER	0.01 MG/L		UJ				0.05 MG/L		U						
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U				0.50 UG/L		U						
ENDRIN	0.10 UG/L		U				0.10 UG/L		U						
GAMMA-BHC (LINDANE)	0.05 UG/L		U				0.05 UG/L		U						
GAMMA-CHLORDANE	0.50 UG/L		U				0.50 UG/L		U						
HEPTACHLOR	0.05 UG/L		U				0.05 UG/L		U						
HEPTACHLOR EPOXIDE	0.05 UG/L		U				0.05 UG/L		U						
METHOXYCHLOR	0.50 UG/L		U				0.50 UG/L		U						
TOXAPHENE	1.00 UG/L		U				1.00 UG/L		U						

SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		U				20.00 UG/L		U						
06/14/94															

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	098397			098372			098363			098356			098358		
LAB:	IT						IT								
SUFFIX/FILTERFLAG:	NONE-NA			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U				100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U				20.00 UG/L		U						
2,4-DINITROTOLUENE	20.00 UG/L		U				20.00 UG/L		U						
2-METHYLPHENOL	20.00 UG/L		U				20.00 UG/L		U						
4-METHYLPHENOL	20.00 UG/L		U				20.00 UG/L		U						
HEXACHLOROBENZENE	20.00 UG/L		U				20.00 UG/L		U						
HEXACHLOROBUTADIENE	20.00 UG/L		U				20.00 UG/L		U						
HEXACHLOROETHANE	20.00 UG/L		U				20.00 UG/L		U						
NITROBENZENE	20.00 UG/L		U				20.00 UG/L		U						
PENTACHLOROPHENOL	100.00 UG/L		U				100.00 UG/L		U						
PYRIDINE	20.00 UG/L		U				20.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U				5.00 UG/L		U						
1,2-DICHLOROETHANE	5.00 UG/L		U				5.00 UG/L		U						
2-BUTANONE	7.00 UG/L		J				10.00 UG/L		U						
BENZENE	5.00 UG/L		U				5.00 UG/L		U						
CARBON TETRACHLORIDE	5.00 UG/L		U				5.00 UG/L		U						
CHLOROBENZENE	5.00 UG/L		U				5.00 UG/L		U						
CHLOROFORM	5.00 UG/L		U				5.00 UG/L		U						
TETRACHLOROETHENE	5.00 UG/L		U				5.00 UG/L		U						
TRICHLOROETHENE	5.00 UG/L		U				5.00 UG/L		U						
VINYL CHLORIDE	10.00 UG/L		U				10.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	098440	098406	098411	098350	098318
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1838	1838	1838	1839	1839
DEPTH:	-	2.5-3.5	5-6	-	2-3
DATE COLLECTED:	13-JUL-92	08-JUL-92	09-JUL-92	29-JUN-92	24-JUN-92
NORTH COORDINATE:	481173	481173	481173	480433.9	480433.9
EAST COORDINATE:	1378540.7	1378540.7	1378540.7	1379149.98	1379149.98
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				12.00 %		NV	14.00 %		NV				14.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		U							1.80 UG/L		UJ			
2,4-D	10.00 UG/L		U							10.00 UG/L		UJ			
INORGANICS															
ARSENIC	0.24 MG/L		U							0.05 MG/L		U			
BARIUM	0.95 MG/L		-							0.58 MG/L		-			
CADMIUM	0.03 MG/L		U							0.01 MG/L		U			
CHROMIUM	0.01 MG/L		U							0.01 MG/L		U			
LEAD	0.21 MG/L		U							0.04 MG/L		U			
MERCURY	0.00 MG/L		U							0.00 MG/L		U			
SELENIUM	0.08 MG/L		U							0.08 MG/L		U			
SILVER	0.05 MG/L		U							0.01 MG/L		UJ			
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		U							0.50 UG/L		UJ			
ENDRIN	0.10 UG/L		U							0.10 UG/L		UJ			
GAMMA-BHC (LINDANE)	0.05 UG/L		U							0.05 UG/L		UJ			
GAMMA-CHLORDANE	0.50 UG/L		U							0.50 UG/L		UJ			
HEPTACHLOR	0.05 UG/L		U							0.05 UG/L		UJ			
HEPTACHLOR EPOXIDE	0.05 UG/L		U							0.05 UG/L		UJ			
METHOXYCHLOR	0.50 UG/L		U							0.50 UG/L		UJ			
TOXAPHENE	1.00 UG/L		U							1.00 UG/L		UJ			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SEMIVOLATILES															
1,4-DICHLOROBENZENE 06/14/94	20.00 UG/L		U							20.00 UG/L		UJ			
SAMPLE NUMBER:	098440			098406			098411			098350			098318		
LAB:	IT									IT					
SUFFIX/FILTERFLAG:	R-NA			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U							100.00 UG/L		UJ			
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U							20.00 UG/L		UJ			
2,4-DINITROTOLUENE	20.00 UG/L		U							20.00 UG/L		UJ			
2-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		UJ			
4-METHYLPHENOL	20.00 UG/L		U							20.00 UG/L		UJ			
HEXACHLOROBENZENE	20.00 UG/L		U							20.00 UG/L		UJ			
HEXACHLOROBUTADIENE	20.00 UG/L		U							20.00 UG/L		UJ			
HEXACHLOROETHANE	20.00 UG/L		U							20.00 UG/L		UJ			
NITROBENZENE	20.00 UG/L		U							20.00 UG/L		UJ			
PENTACHLOROPHENOL	100.00 UG/L		U							100.00 UG/L		UJ			
PYRIDINE	20.00 UG/L		U							20.00 UG/L		UJ			
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U			
1,2-DICHLOROETHANE	5.00 UG/L		U							5.00 UG/L		U			
2-BUTANONE	7.00 UG/L		J							10.00 UG/L		U			
BENZENE	5.00 UG/L		U							5.00 UG/L		U			
CARBON TETRACHLORIDE	5.00 UG/L		U							5.00 UG/L		U			
CHLOROBENZENE	5.00 UG/L		U							5.00 UG/L		U			
CHLOROFORM	5.00 UG/L		U							5.00 UG/L		U			
TETRACHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U			
TRICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U			
VINYL CHLORIDE	10.00 UG/L		U							10.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	098323	098462	098458	098461	098312
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT-KNOX	IT	IT	IT/RSL
WELL OR BORING NUMBER:	1839	1840	1840	1840	1841
DEPTH:	5-6	-	10.5-11.5	13.5-14.5	-
DATE COLLECTED:	24-JUN-92	09-AUG-92	08-AUG-92	08-AUG-92	23-JUN-92
NORTH COORDINATE:	480433.9	479964.9	479964.9	479964.9	479953.19
EAST COORDINATE:	1379149.98	1380658.84	1380658.84	1380658.84	1381086.76
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	DRILL CUTTINGS
QC OF:		098463			
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV				19.00 %		NV	13.00 %		NV			
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U							1.80 UG/L		U
2,4-D				10.00 UG/L		U							10.00 UG/L		U
INORGANICS															
ARSENIC				0.05 MG/L		U							0.05 MG/L		U
BARIUM				0.85 MG/L		-							0.86 MG/L		-
CADMIUM				0.01 MG/L		U							0.01 MG/L		U
CHROMIUM				0.01 MG/L		U							0.01 MG/L		U
LEAD				0.04 MG/L		U							0.05 MG/L		U
MERCURY				0.00 MG/L		U							0.00 MG/L		U
SELENIUM				0.08 MG/L		U							0.09 MG/L		U
SILVER				0.01 MG/L		U							0.02 MG/L		U
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U							0.50 UG/L		U
ENDRIN				0.10 UG/L		U							0.10 UG/L		U
GAMMA-BHC (LINDANE)				0.05 UG/L		U							0.05 UG/L		U
GAMMA-CHLORDANE				0.50 UG/L		U							0.50 UG/L		U
HEPTACHLOR				0.05 UG/L		U							0.05 UG/L		U
HEPTACHLOR EPOXIDE				0.05 UG/L		U							0.05 UG/L		U
METHOXYCHLOR				0.50 UG/L		U							0.50 UG/L		U
TOXAPHENE				1.00 UG/L		U							1.00 UG/L		U

000459

8704

SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U							20.00 UG/L		UJ
06/14/94															
SAMPLE NUMBER:	098323			098462			098458			098461			098312		
LAB:				IT-KNOX									IT/RSL		
SUFFIX/FILTERFLAG:	-			NONE-NA			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U							100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U							20.00 UG/L		UJ
2,4-DINITROTOLUENE				20.00 UG/L		U							20.00 UG/L		UJ
2-METHYLPHENOL				20.00 UG/L		U							20.00 UG/L		UJ
4-METHYLPHENOL				20.00 UG/L		U							20.00 UG/L		UJ
HEXACHLOROBENZENE				20.00 UG/L		U							20.00 UG/L		UJ
HEXACHLOROBUTADIENE				20.00 UG/L		U							20.00 UG/L		UJ
HEXACHLOROETHANE				20.00 UG/L		U							20.00 UG/L		UJ
NITROBENZENE				20.00 UG/L		U							20.00 UG/L		UJ
PENTACHLOROPHENOL				100.00 UG/L		U							100.00 UG/L		UJ
PYRIDINE				20.00 UG/L		U							20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U							5.00 UG/L		U
1,2-DICHLOROETHANE				5.00 UG/L		U							5.00 UG/L		U
2-BUTANONE				10.00 UG/L		U							8.00 UG/L		J
BENZENE				5.00 UG/L		U							5.00 UG/L		U
CARBON TETRACHLORIDE				5.00 UG/L		U							5.00 UG/L		U
CHLOROBENZENE				5.00 UG/L		U							5.00 UG/L		U
CHLOROFORM				5.00 UG/L		U							5.00 UG/L		U
TETRACHLOROETHENE				5.00 UG/L		U							5.00 UG/L		U
TRICHLOROETHENE				5.00 UG/L		U							5.00 UG/L		U
VINYL CHLORIDE				10.00 UG/L		U							10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	098301	098305	098288	098284	098508
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	IT-KNOX
WELL OR BORING NUMBER:	1841	1841	1842	1842	1842
DEPTH:	9.5-10.5	11.5-12.5	-	8-9	10.5-11.5
DATE COLLECTED:	17-JUN-92	19-JUN-92	16-JUN-92	16-JUN-92	09-DEC-92
NORTH COORDINATE:	479953.19	479953.19	479927.25	479927.25	479927.25
EAST COORDINATE:	1381086.76	1381086.76	1381972.92	1381972.92	1381972.92
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	15.00 %		NV				14.00 %		NV	12.00 UG/KG		NV
HERBICIDES															
2,4,5-TP (SILVEX)							1.80 UG/L		UJ						
2,4-D							10.00 UG/L		UJ						
INORGANICS															
ARSENIC							0.05 MG/L		U						
BARIUM							0.87 MG/L		-						
CADMIUM							0.01 MG/L		U						
CHROMIUM							0.01 MG/L		U						
LEAD							0.04 MG/L		U						
MERCURY							0.00 MG/L		U						
SELENIUM							0.08 MG/L		U						
SILVER							0.01 MG/L		U						
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		UJ						
ENDRIN							0.10 UG/L		UJ						
GAMMA-BHC (LINDANE)							0.05 UG/L		UJ						
GAMMA-CHLORDANE							0.50 UG/L		UJ						
HEPTACHLOR							0.05 UG/L		UJ						
HEPTACHLOR EPOXIDE							0.05 UG/L		UJ						
METHOXYCHLOR							0.50 UG/L		UJ						
TOXAPHENE							1.00 UG/L		UJ						

5704

SEMIVOLATILES

1,4-DICHLOROBENZENE 20.00 UG/L UJ
06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	098301			098305			098288			098284			098508		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL							100.00 UG/L		UJ						
2,4,6-TRICHLOROPHENOL							20.00 UG/L		UJ						
2,4-DINITROTOLUENE							20.00 UG/L		UJ						
2-METHYLPHENOL							20.00 UG/L		UJ						
4-METHYLPHENOL							20.00 UG/L		UJ						
HEXACHLOROBENZENE							20.00 UG/L		UJ						
HEXACHLOROBUTADIENE							20.00 UG/L		UJ						
HEXACHLOROETHANE							20.00 UG/L		UJ						
NITROBENZENE							20.00 UG/L		UJ						
PENTACHLOROPHENOL							100.00 UG/L		UJ						
PYRIDINE							20.00 UG/L		UJ						
VOLATILES															
1,1-DICHLOROETHENE							5.00 UG/L		U						
1,2-DICHLOROETHANE							5.00 UG/L		U						
2-BUTANONE							10.00 UG/L		U						
BENZENE							5.00 UG/L		U						
CARBON TETRACHLORIDE							5.00 UG/L		U						
CHLOROBENZENE							5.00 UG/L		U						
CHLOROFORM							5.00 UG/L		U						
TETRACHLOROETHENE							5.00 UG/L		U						
TRICHLOROETHENE							5.00 UG/L		U						
VINYL CHLORIDE							10.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	098248	098252	067706	067711	067604
TASK:	50.03.07	50.03.07	20.03.02	20.03.02	20.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1843	1843	1846	1846	1849
DEPTH:	8.5-9.5	10.5-11.5	6-7.5	13.5-15	6-7.5
DATE COLLECTED:	10-JUN-92	10-JUN-92	22-FEB-92	22-FEB-92	22-FEB-92
NORTH COORDINATE:	479905.6	479905.6	477221.45	477221.45	477806.91
EAST COORDINATE:	1382522.39	1382522.39	1379953.49	1379953.49	1378975.19
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	R-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	11.00 %		NV	21.00 %		NV	21.00 %		NV	28.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067609	067627	067632	067636	067802
TASK:	20.03.02	20.03.02	20.03.02	20.03.02	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1849	1850	1850	1850	1882
DEPTH:	13.5-15	6-7.5	13.5-15	0-15	1.5-2
DATE COLLECTED:	22-FEB-92	23-FEB-92	23-FEB-92	23-FEB-92	22-FEB-92
NORTH COORDINATE:	477806.91	478126.2	478126.2	478126.2	477419.98
EAST COORDINATE:	1378975.19	1378962.62	1378962.62	1378962.62	1379589.46
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	17.00 %		NV	17.00 %		NV						
ALKALINITY AS CACO3										55.00 MG/L		-			
AMMONIA										0.10 MG/L		U			
CHLORIDE										0.40 MG/L		U			
FLUORIDE										0.40 MG/L		U			
IGNITABILITY										110.00 DEGREES		-			
NITRATE										14.00 MG/L		-			
PH										6.75 SU		-			
PHOSPHATE										1.00 MG/L		U			
SULFATE										46.00 MG/L		-			
SULFIDE										0.50 MG/KG		U			
TOTAL ORGANIC CARBON										10.41 MG/L		-			
INORGANICS															
ALUMINUM										0.89 MG/L		-			
ANTIMONY										0.03 MG/L		U			
ARSENIC										0.05 MG/L		U			
BARIUM										0.30 MG/L		-			
BERYLLIUM										0.00 MG/L		U			
CADMIUM										0.00 MG/L		U			
CALCIUM										43.70 MG/L		-			
CHROMIUM										0.02 MG/L		-			
COBALT										0.01 MG/L		U			
COPPER										0.01 MG/L		U			
IRON										0.09 MG/L		-			
LEAD										0.00 MG/L		U			
MAGNESIUM										2.56 MG/L		-			
MANGANESE										0.00 MG/L		-			
MERCURY										0.00 MG/L		U			

000464

SAMPLE NUMBER:	067609			067627			067632			067636			067802		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MOLYBDENUM										0.01 MG/L		U			
NICKEL										0.02 MG/L		U			
POTASSIUM										1.28 MG/L		-			
SELENIUM										0.00 MG/L		-			
SILICON										3.26 MG/L		-			
SILVER										0.01 MG/L		U			
SODIUM										4.79 MG/L		-			
THALLIUM										0.15 MG/L		U			
VANADIUM										0.01 MG/L		U			
ZINC										1.68 MG/L		-			
No sort code listed.															
3-METHYLPHENOL													20.00 UG/L		UR
RADIONUCLIDES															
URANIUM-238										1.99 PCI/L	.63	-			
URANIUM-234										2.21 PCI/L	.69	-			
THORIUM-230										1.00 PCI/L		U			
RADIUM-226										1.00 PCI/L		U			
URANIUM-235/236										1.00 PCI/L		U			
THORIUM-232										1.00 PCI/L		U			
THORIUM, TOTAL										1.20 UG/L		U			
THORIUM-228										1.00 PCI/L		U			
NEPTUNIUM-237										1.00 PCI/L		UJ			
PLUTONIUM-239/240										1.00 PCI/L		U			
PLUTONIUM-238										1.00 PCI/L		U			
STRONTIUM-90										5.00 PCI/L		U			
TECHNETIUM-99										30.00 PCI/L		U			
RUTHENIUM-106										150.00 PCI/L		R			
CESIUM-137										20.00 PCI/L		R			
SEMIVOLATILES															
1,4-DICHLOROBENZENE													20.00 UG/L		U
2,4,5-TRICHLOROPHENOL													100.00 UG/L		U
2,4,6-TRICHLOROPHENOL													20.00 UG/L		U
2,4-DINITROTOLUENE													20.00 UG/L		U
2-METHYLPHENOL													20.00 UG/L		U
4-METHYLPHENOL													20.00 UG/L		U
HEXACHLOROBENZENE													20.00 UG/L		U
HEXACHLOROBUTADIENE													20.00 UG/L		U
HEXACHLOROETHANE													20.00 UG/L		U
NITROBENZENE													20.00 UG/L		U

000465

5704

SAMPLE NUMBER:	067609			067627			067632			067636			067802		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PENTACHLOROPHENOL													100.00 UG/L		U
PYRIDINE													20.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE													5.00 UG/L		U
1,2-DICHLOROETHANE													5.00 UG/L		U
2-BUTANONE													4.00 UG/L		J
BENZENE													5.00 UG/L		U
CARBON TETRACHLORIDE													5.00 UG/L		U
CHLOROBENZENE													5.00 UG/L		U
CHLOROFORM													5.00 UG/L		U
TETRACHLOROETHENE													5.00 UG/L		U
TRICHLOROETHENE													5.00 UG/L		U
VINYL CHLORIDE													10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067801	067804	067803	067714	067717
TASK:	20.03.01	20.03.01	20.03.01	20.03.02	20.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1883	1884	1885	1888	1888
DEPTH:	1.5-2	1.5-2	1.5-2	0-1.5	5-6
DATE COLLECTED:	22-FEB-92	22-FEB-92	22-FEB-92	23-FEB-92	23-FEB-92
NORTH COORDINATE:	477303.62	477954.08	477900.74	482124.84	482124.84
EAST COORDINATE:	1379404.74	1379278.85	1379510.56	1379761.91	1379761.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE										12.00 %		NV	17.00 %		NV
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		UR	20.00 UG/L		UR	20.00 UG/L		UR						
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U	100.00 UG/L		U	100.00 UG/L		U						
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
2,4-DINITROTOLUENE	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
2-METHYLPHENOL	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
4-METHYLPHENOL	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROBENZENE	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROBUTADIENE	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
HEXACHLOROETHANE	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
NITROBENZENE	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
PENTACHLOROPHENOL	100.00 UG/L		U	100.00 UG/L		U	100.00 UG/L		U						
PYRIDINE	20.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		U						
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						
1,2-DICHLOROETHANE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						
2-BUTANONE	10.00 UG/L		U	2.00 UG/L		J	10.00 UG/L		U						
BENZENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						
CARBON TETRACHLORIDE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						
CHLOROBENZENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						
CHLOROFORM	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						

000487

5704

SAMPLE NUMBER:	067801			067804			067803			067714			067717		
LAB:	IT			IT			IT								
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TETRACHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						
TRICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U						
VINYL CHLORIDE	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	067719	067740	30907-1895-05	033005	033023
TASK:	20.03.02	20.03.02	40.03.05	3.2	3.2
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1888	1889	1895	1943	1944
DEPTH:	6-7.5	15.5-17.5	0-6	-	-
DATE COLLECTED:	23-FEB-92	25-FEB-92	07-SEP-93	22-AUG-90	28-AUG-90
NORTH COORDINATE:	482124.84	482121.36	480442.8	481894.66	481610.8
EAST COORDINATE:	1379761.91	1379765.86	1378236.88	1378726.28	1378642.25
QA TYPE:	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				10.00 %		NV									
HERBICIDES															
2,4,5-TP (SILVEX)										2.00 UG/L		UJ	2.00 UG/L		UJ
2,4-D										12.00 UG/L		UJ	12.00 UG/L		UJ
INORGANICS															
ARSENIC							0.05 MG/L		UNV	0.25 MG/L		UJ	0.25 MG/L		U
BARIUM							0.77 MG/L		NV	1.52 MG/L		J	1.58 MG/L		-
CADMIUM							0.01 MG/L		UNV	0.01 MG/L		J	0.03 MG/L		-
CHROMIUM							0.02 MG/L		NV	0.16 MG/L		J	0.22 MG/L		-
LEAD							0.04 MG/L		UNV	0.20 MG/L		UJ	0.20 MG/L		J
MERCURY							0.00 MG/L		UNV	0.00 MG/L		U	0.00 MG/L		U
SELENIUM							0.07 MG/L		UNV	0.17 MG/L		UJ	0.40 MG/L		U
SILVER							0.01 MG/L		UNV	0.12 MG/L		J	0.13 MG/L		-
No sort code listed.															
3-METHYLPHENOL	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		UJ
PESTICIDES															
4,4'-DDD										110.00 UG/L		U	0.10 UG/L		UJ
4,4'-DDE										110.00 UG/L		U	0.10 UG/L		UJ
4,4'-DDT										110.00 UG/L		U	0.10 UG/L		UJ
ALDRIN										56.00 UG/L		U	0.05 UG/L		UJ
ALPHA-BHC										56.00 UG/L		U	0.05 UG/L		UJ
ALPHA-CHLORDANE										560.00 UG/L		U	0.50 UG/L		UJ

000469

5704

SAMPLE NUMBER:	067719			067740			30907-1895-05			033005			033023		
LAB:										IT/MWL			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
AROCLOR-1016										560.00 UG/L		U	0.50 UG/L		UJ
AROCLOR-1221										560.00 UG/L		U	0.50 UG/L		UJ
AROCLOR-1232										560.00 UG/L		U	0.50 UG/L		UJ
AROCLOR-1242										560.00 UG/L		U	0.50 UG/L		UJ
AROCLOR-1248										560.00 UG/L		U	0.50 UG/L		UJ
AROCLOR-1254										1100.00 UG/L		U	1.00 UG/L		UJ
AROCLOR-1260										1100.00 UG/L		U	1.00 UG/L		UJ
BETA-BHC										56.00 UG/L		U	0.05 UG/L		UJ
CHLORDANE										0.60 UG/L		UJ	0.00 UG/L		UJ
DELTA-BHC										56.00 UG/L		U	0.05 UG/L		UJ
DIELDRIN										110.00 UG/L		U	0.10 UG/L		UJ
ENDOSULFAN II										110.00 UG/L		U	0.10 UG/L		UJ
ENDOSULFAN SULFATE										110.00 UG/L		U	0.10 UG/L		UJ
ENDOSULFAN-I										56.00 UG/L		U	0.05 UG/L		UJ
ENDRIN										0.10 UG/L		UJ	0.00 UG/L		UJ
ENDRIN KETONE										110.00 UG/L		U	0.10 UG/L		UJ
GAMMA-BHC (LINDANE)										0.06 UG/L		UJ	0.00 UG/L		UJ
GAMMA-CHLORDANE										560.00 UG/L		U	0.50 UG/L		UJ
HEPTACHLOR										0.06 UG/L		UJ	0.00 UG/L		UJ
HEPTACHLOR EPOXIDE										0.06 UG/L		UJ	0.00 UG/L		UJ
METHOXYCHLOR										0.60 UG/L		UJ	0.00 UG/L		UJ
TOXAPHENE										1.00 UG/L		UJ	0.00 UG/L		UJ
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		R
2,4,5-TRICHLOROPHENOL	100.00 UG/L		U							52.00 UG/L		UJ	100.00 UG/L		R
2,4,6-TRICHLOROPHENOL	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		R
2,4-DINITROTOLUENE	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		UJ
2-METHYLPHENOL	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		UJ
4-METHYLPHENOL	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		UJ
HEXACHLOROBENZENE	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		R
HEXACHLOROBUTADIENE	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		R
HEXACHLOROETHANE	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		R
NITROBENZENE	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		UJ
PENTACHLOROPHENOL	100.00 UG/L		UR							52.00 UG/L		UJ	100.00 UG/L		UJ
PYRIDINE	20.00 UG/L		U							10.00 UG/L		UJ	20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U										5.00 UG/L		U
1,2-DICHLOROETHANE	5.00 UG/L		U										5.00 UG/L		U
2-BUTANONE	10.00 UG/L		U										4.00 UG/L		U
BENZENE	5.00 UG/L		U										5.00 UG/L		U
CARBON TETRACHLORIDE	5.00 UG/L		U										5.00 UG/L		U

000470

SAMPLE NUMBER:	067719			067740			30907-1895-05			033005			033023		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROBENZENE	5.00 UG/L		U										5.00 UG/L		U
CHLOROFORM	5.00 UG/L		U										5.00 UG/L		U
TETRACHLOROETHENE	5.00 UG/L		U										5.00 UG/L		U
TRICHLOROETHENE	5.00 UG/L		U										5.00 UG/L		U
VINYL CHLORIDE	10.00 UG/L		U										10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	112559			112563			112536			112593			056914		
TASK:	20.03.05			20.03.05			20.03.05			20.03.05			3.7		
LAB:	ITAS			ITAS			ITAS			ITAS			IT		
WELL OR BORING NUMBER:	1969			1969			1971			1971			1974		
DEPTH:	4.5-6			9-10.5			4.5-6.5			9.5-11			.5-1		
DATE COLLECTED:	15-APR-93			15-APR-93			15-APR-93			15-APR-93			24-OCT-90		
NORTH COORDINATE:	477633.01			477633.01			477709.01			477709.01			481667.79		
EAST COORDINATE:	1379700.05			1379700.05			1379566.04			1379566.04			1381163.33		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.88 %		NV	20.37 %		NV	20.47 %		NV	18.08 %		NV	13.00 %		NV

000472

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	056917	112584	112588	112093	112131
TASK:	3.7	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	ITAS	ITAS	IT	IT
WELL OR BORING NUMBER:	1974	1978	1978	1979	1980
DEPTH:	2-2.5	9.5-11	13.5-15	2-4	2-4
DATE COLLECTED:	25-OCT-90	16-APR-93	16-APR-93	10-MAY-93	12-MAY-93
NORTH COORDINATE:	481667.79	477395.02	477395.02	477241.54	477280.38
EAST COORDINATE:	1381163.33	1379639.05	1379639.05	1379893.36	1379997.79
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	25.00 %		NV	11.18 %		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										17000.00 UG/L		U	17.00 UG/L		U
2,4-D										120000.00 UG/L		U	120.00 UG/L		U
INORGANICS															
ARSENIC										0.10 MG/L		UR	0.10 MG/L		UJ
BARIUM										1.25 MG/L		-	0.56 MG/L		-
CADMIUM										0.00 MG/L		U	0.00 MG/L		U
CHROMIUM										0.00 MG/L		U	0.00 MG/L		U
COPPER										0.01 MG/L		U	0.02 MG/L		U
IRON										0.00 MG/L		U	0.05 MG/L		U
LEAD										0.05 MG/L		UR	0.02 MG/L		UJ
MANGANESE										0.02 MG/L		J	0.07 MG/L		J
MERCURY										0.00 MG/L		UJ	0.00 MG/L		UJ
SELENIUM										0.05 MG/L		UR	0.03 MG/L		UJ
SILVER										0.00 MG/L		UJ	0.00 MG/L		UJ
ZINC										0.36 MG/L		R	1.33 MG/L		-
PESTICIDES															
CHLORDANE										1.40 UG/L		U	1.40 UG/L		U
ENDRIN										0.60 UG/L		U	0.60 UG/L		U
GAMMA-BHC (LINDANE)										0.40 UG/L		U	0.40 UG/L		U
HEPTACHLOR										0.30 UG/L		U	0.30 UG/L		U
HEPTACHLOR EPOXIDE										8.30 UG/L		U	8.30 UG/L		U
METHOXYCHLOR										18.00 UG/L		U	18.00 UG/L		U

000473

5704

SAMPLE NUMBER:	056917			112584			112588			112093			112131		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE										24.00 UG/L		U	24.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE										50.00 UG/L		U	50.00 UG/L		U
2,4,5-TRICHLOROPHENOL										50.00 UG/L		U	50.00 UG/L		U
2,4,6-TRICHLOROPHENOL										50.00 UG/L		U	50.00 UG/L		U
2,4-DINITROTOLUENE										50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROBENZENE										50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROBUTADIENE										50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROETHANE										50.00 UG/L		U	50.00 UG/L		U
NITROBENZENE										50.00 UG/L		UJ	50.00 UG/L		U
PENTACHLOROPHENOL										250.00 UG/L		U	250.00 UG/L		U
PYRIDINE										250.00 UG/L		U	250.00 UG/L		U
TOTAL METHYLPHENOL										50.00 UG/L		U	50.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE										5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE										10.00 UG/L		UJ	10.00 UG/L		UJ
BENZENE										5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE										5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE										5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM										5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE										10.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	112146	112168	111484	111486	111487
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	IT	ITAS	ITAS	ITAS
WELL OR BORING NUMBER:	1980	1981	1982	1982	1982
DEPTH:	15-17	8-10	0-2.5	0-2.5	7.5-10
DATE COLLECTED:	12-MAY-93	13-MAY-93	06-MAY-93	06-MAY-93	06-MAY-93
NORTH COORDINATE:	477280.38	477366.17	482223.3	482223.3	482223.3
EAST COORDINATE:	1379997.79	1379964.33	1379595.2	1379595.2	1379595.2
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							14.20 %		NV	18.15 %		NV	11.81 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	17.00 UG/L		U	1.80 UG/L		U									
2,4-D	120.00 UG/L		U	10.00 UG/L		U									
INORGANICS															
ARSENIC	0.07 MG/L		UJ	0.05 MG/L		UJ									
BARIUM	0.05 MG/L		U	0.30 MG/L		-									
CADMIUM	0.00 MG/L		U	0.01 MG/L		U									
CHROMIUM	0.00 MG/L		U	0.01 MG/L		U									
COPPER	0.00 MG/L		U	0.01 MG/L		U									
IRON	0.03 MG/L		U	0.06 MG/L		U									
LEAD	0.02 MG/L		UJ	0.04 MG/L		UJ									
MANGANESE	0.26 MG/L		J	0.01 MG/L		-									
MERCURY	0.00 MG/L		UJ	0.00 MG/L		U									
SELENIUM	0.03 MG/L		UJ	0.08 MG/L		U									
SILVER	0.00 MG/L		UJ	0.01 MG/L		UR									
ZINC	0.30 MG/L		R	0.18 MG/L		-									
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U									
CHLORDANE	1.40 UG/L		U												
ENDRIN	0.60 UG/L		U	0.10 UG/L		U									
GAMMA-BHC (LINDANE)	0.40 UG/L		U	0.05 UG/L		U									
GAMMA-CHLORDANE				0.50 UG/L		U									
HEPTACHLOR	0.30 UG/L		U	0.05 UG/L		U									

000075

8704

SAMPLE NUMBER:	112146			112168			111484			111486			111487		
LAB:	IT			IT											
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE	8.30 UG/L		U	0.05 UG/L		U									
METHOXYCHLOR	18.00 UG/L		U	0.50 UG/L		U									
TOXAPHENE	24.00 UG/L		U	1.00 UG/L		U									
SEMIVOLATILES															
1,4-DICHLOROBENZENE	50.00 UG/L		U	20.00 UG/L		U									
2,4,5-TRICHLOROPHENOL	50.00 UG/L		U	100.00 UG/L		U									
2,4,6-TRICHLOROPHENOL	50.00 UG/L		U	20.00 UG/L		U									
2,4-DINITROTOLUENE	50.00 UG/L		U	20.00 UG/L		U									
HEXACHLOROBENZENE	50.00 UG/L		U	20.00 UG/L		U									
HEXACHLOROBUTADIENE	50.00 UG/L		U	20.00 UG/L		U									
HEXACHLOROETHANE	50.00 UG/L		U	20.00 UG/L		U									
NITROBENZENE	50.00 UG/L		U	20.00 UG/L		U									
PENTACHLOROPHENOL	250.00 UG/L		U	100.00 UG/L		U									
PYRIDINE	250.00 UG/L		U	200.00 UG/L		U									
TOTAL METHYLPHENOL	50.00 UG/L		U	20.00 UG/L		U									
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U									
1,2-DICHLOROETHANE	5.00 UG/L		U	5.00 UG/L		U									
2-BUTANONE	10.00 UG/L		UJ	10.00 UG/L		U									
BENZENE	5.00 UG/L		U	5.00 UG/L		U									
CARBON TETRACHLORIDE	5.00 UG/L		U	5.00 UG/L		U									
CHLOROBENZENE	5.00 UG/L		U	5.00 UG/L		U									
CHLOROFORM	5.00 UG/L		U	5.00 UG/L		U									
TETRACHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U									
TRICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U									
VINYL CHLORIDE	10.00 UG/L		U	10.00 UG/L		U									

000476

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	111478	111480	111482	111454	115358
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	ITAS	ITAS	IT	IT
WELL OR BORING NUMBER:	1983	1983	1983	1986	1987
DEPTH:	2.5-5	17.5-20	17.5-20	2.5-5	5-7.5
DATE COLLECTED:	03-MAY-93	05-MAY-93	05-MAY-93	28-APR-93	13-MAY-93
NORTH COORDINATE:	482173.32	482173.32	482173.32	482114.8	482147.62
EAST COORDINATE:	1379593.72	1379593.72	1379593.72	1379724.53	1379617.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				9.11 % MOISTURE		NV	9.45 % MOISTURE		NV						
HERBICIDES															
2,4,5-TP (SILVEX)										17.00 UG/L		U	17.00 UG/L		U
2,4-D										120.00 UG/L		U	120.00 UG/L		U
INORGANICS															
ARSENIC	0.03 MG/L		UJ							0.53 MG/L		UR	0.05 MG/L		UJ
BARIUM	1.33 MG/L		-							1.11 MG/L		-	1.46 MG/L		-
CADMIUM	0.00 MG/L		U							0.00 MG/L		U	0.00 MG/L		U
CHROMIUM	0.00 MG/L		U							0.00 MG/L		U	0.00 MG/L		U
COPPER	0.00 MG/L		U							0.01 MG/L		-	0.00 MG/L		U
IRON	0.02 MG/L		U							0.06 MG/L		-	0.03 MG/L		U
LEAD	0.02 MG/L		UJ							0.13 MG/L		U	0.02 MG/L		UJ
MANGANESE	0.08 MG/L		J							1.93 MG/L		J	0.23 MG/L		J
MERCURY	0.00 MG/L		UJ							0.00 MG/L		UJ	0.00 MG/L		UJ
SELENIUM	0.03 MG/L		UJ							0.14 MG/L		UR	0.03 MG/L		UJ
SILVER	0.00 MG/L		UJ							0.01 MG/L		UJ	0.00 MG/L		UJ
ZINC	0.23 MG/L		R							0.20 MG/L		R	0.33 MG/L		R
PESTICIDES															
CHLORDANE										1.40 UG/L		U	1.40 UG/L		U
ENDRIN										0.60 UG/L		U	0.60 UG/L		U
GAMMA-BHC (LINDANE)										0.40 UG/L		U	0.40 UG/L		U
HEPTACHLOR										0.30 UG/L		U	0.30 UG/L		U
HEPTACHLOR EPOXIDE										8.30 UG/L		U	8.30 UG/L		U
METHOXYCHLOR										18.00 UG/L		U	18.00 UG/L		U

000477

5704

SAMPLE NUMBER:	111478			111480			111482			111454			115358		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE										24.00 UG/L		U	24.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE										50.00 UG/L		U	50.00 UG/L		U
2,4,5-TRICHLOROPHENOL										250.00 UG/L		U	50.00 UG/L		U
2,4,6-TRICHLOROPHENOL										50.00 UG/L		U	50.00 UG/L		U
2,4-DINITROTOLUENE										50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROBENZENE										50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROBUTADIENE										50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROETHANE										50.00 UG/L		U	50.00 UG/L		U
NITROBENZENE										50.00 UG/L		U	50.00 UG/L		U
PENTACHLOROPHENOL										250.00 UG/L		U	250.00 UG/L		U
PYRIDINE										250.00 UG/L		U	250.00 UG/L		U
TOTAL METHYLPHENOL										50.00 UG/L		U	50.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE										5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE										10.00 UG/L		UJ	10.00 UG/L		UJ
BENZENE										5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE										5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE										5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM										5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE										5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE										10.00 UG/L		U	10.00 UG/L		U

000478

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	115334	115320	116295	116114	112081
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1990	1991	1994	1995	1996
DEPTH:	10-12.5	7.5-10	22-23.5	24-25.5	12-13
DATE COLLECTED:	10-MAY-93	06-MAY-93	13-MAY-93	01-MAY-93	29-APR-93
NORTH COORDINATE:	482165.44	482196.1	477742.39	477770.18	477819.85
EAST COORDINATE:	1379660.29	1379689.37	1379200.09	1379054.76	1379114.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
HERBICIDES															
2,4,5-TP (SILVEX)	17000.00 UG/L		U	17000.00 UG/L		U	1.80 UG/L		U	17.00 UG/L		U	17.00 UG/L		U
2,4-D	120000.00 UG/L		U	120000.00 UG/L		U	10.00 UG/L		U	120.00 UG/L		U	120.00 UG/L		U
INORGANICS															
ARSENIC	0.00 MG/L		U	0.05 MG/L		UJ	0.05 MG/L		UJ	0.47 MG/L		UR	0.45 MG/L		UR
BARIUM	0.00 MG/L		U	1.32 MG/L		-	0.85 MG/L		-	0.91 MG/L		U	1.48 MG/L		-
CADMIUM	0.00 MG/L		-	0.00 MG/L		U	0.01 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
CHROMIUM	0.00 MG/L		U	0.00 MG/L		U	0.01 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
COPPER	0.00 MG/L		U	0.00 MG/L		U	0.01 MG/L		U	0.00 MG/L		-	0.00 MG/L		-
IRON	0.00 MG/L		U	0.05 MG/L		U	0.11 MG/L		U	0.11 MG/L		-	0.01 MG/L		-
LEAD	0.00 MG/L		U	0.07 MG/L		J	0.04 MG/L		UJ	0.02 MG/L		UJ	0.02 MG/L		UJ
MANGANESE	0.01 MG/L		J	5.50 MG/L		J	0.10 MG/L		-	0.09 MG/L		J	0.11 MG/L		J
MERCURY	0.00 MG/L		UJ	0.00 MG/L		UJ	0.00 MG/L		U	0.00 MG/L		UJ	0.00 MG/L		UJ
SELENIUM	0.00 MG/L		U	0.13 MG/L		UJ	0.08 MG/L		UJ	0.11 MG/L		UR	0.11 MG/L		UR
SILVER	0.00 MG/L		UJ	0.00 MG/L		UJ	0.01 MG/L		UR	0.00 MG/L		UJ	0.00 MG/L		UJ
ZINC	0.00 MG/L		-	0.21 MG/L		R	0.08 MG/L		U	0.16 MG/L		R	0.14 MG/L		R
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		U						
CHLORDANE	1.40 UG/L		U	1.40 UG/L		U				1.40 UG/L		U	1.40 UG/L		U
ENDRIN	0.60 UG/L		U	0.60 UG/L		U	0.10 UG/L		U	0.60 UG/L		U	0.60 UG/L		U
GAMMA-BHC (LINDANE)	0.40 UG/L		U	0.40 UG/L		U	0.05 UG/L		U	0.40 UG/L		U	0.40 UG/L		U
GAMMA-CHLORDANE							0.50 UG/L		U						
HEPTACHLOR	0.30 UG/L		U	0.30 UG/L		U	0.05 UG/L		U	0.30 UG/L		U	0.30 UG/L		U
HEPTACHLOR EPOXIDE	8.30 UG/L		U	8.30 UG/L		U	0.05 UG/L		U	8.30 UG/L		U	8.30 UG/L		U
METHOXYCHLOR	18.00 UG/L		U	18.00 UG/L		U	0.50 UG/L		U	18.00 UG/L		U	18.00 UG/L		U
TOXAPHENE	24.00 UG/L		U	24.00 UG/L		U	1.00 UG/L		U	24.00 UG/L		U	24.00 UG/L		U

SEMIVOLATILES															
1,4-DICHLOROBENZENE	50.00 UG/L		U	50.00 UG/L		U	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
06/14/94															

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	115334			115320			116295			116114			112081		
LAB:	IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL	50.00 UG/L		U	50.00 UG/L		U	100.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
2,4,6-TRICHLOROPHENOL	50.00 UG/L		U	50.00 UG/L		U	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
2,4-DINITROTOLUENE	50.00 UG/L		U	50.00 UG/L		U	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROBENZENE	50.00 UG/L		U	50.00 UG/L		U	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROBUTADIENE	50.00 UG/L		U	50.00 UG/L		U	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
HEXACHLOROETHANE	50.00 UG/L		U	50.00 UG/L		U	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
NITROBENZENE	50.00 UG/L		UJ	50.00 UG/L		UJ	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
PENTACHLOROPHENOL	250.00 UG/L		U	250.00 UG/L		U	100.00 UG/L		U	250.00 UG/L		U	250.00 UG/L		U
PYRIDINE	250.00 UG/L		U	250.00 UG/L		UJ	200.00 UG/L		U	250.00 UG/L		U	250.00 UG/L		U
TOTAL METHYLPHENOL	50.00 UG/L		U	50.00 UG/L		U	20.00 UG/L		U	50.00 UG/L		U	50.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
2-BUTANONE	10.00 UG/L		UJ	10.00 UG/L		UR	10.00 UG/L		U	10.00 UG/L		UJ	10.00 UG/L		UJ
BENZENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	116216	116252	116257	116075	116074
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	ITAS	ITAS	IT	IT
WELL OR BORING NUMBER:	1997	1997	1997	1998	1998
DEPTH:	26-27.5	34-35.5	38-39	0-1.5	2-3.5
DATE COLLECTED:	05-MAY-93	07-MAY-93	07-MAY-93	28-APR-93	28-APR-93
NORTH COORDINATE:	477871.13	477871.13	477871.13	478091.6	478091.6
EAST COORDINATE:	1378960.5	1378960.5	1378960.5	1379032.88	1379032.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				18.04 %		NV	9.62 % MOISTURE		NV						
HERBICIDES															
2,4,5-TP (SILVEX)	17000.00 UG/L		U										1.80 UG/L		U
2,4-D	120000.00 UG/L		U										10.00 UG/L		U
INORGANICS															
ARSENIC	0.06 MG/L		U										0.05 MG/L		UJ
BARIUM	1.58 MG/L		-										1.07 MG/L		-
CADMIUM	0.00 MG/L		U										0.01 MG/L		U
CHROMIUM	0.00 MG/L		U										0.01 MG/L		U
COPPER	0.00 MG/L		U										0.01 MG/L		U
IRON	0.02 MG/L		U										1.21 MG/L		-
LEAD	0.02 MG/L		U										0.04 MG/L		UJ
MANGANESE	0.10 MG/L		J										0.43 MG/L		-
MERCURY	0.00 MG/L		UJ										0.00 MG/L		U
SELENIUM	0.09 MG/L		-										0.08 MG/L		UJ
SILVER	0.00 MG/L		UJ										0.01 MG/L		U
ZINC	0.13 MG/L		R										0.21 MG/L		U
PESTICIDES															
ALPHA-CHLORDANE													0.50 UG/L		U
CHLORDANE	1.40 UG/L		U												
ENDRIN	0.60 UG/L		U										0.10 UG/L		U
GAMMA-BHC (LINDANE)	0.40 UG/L		U										0.05 UG/L		U
GAMMA-CHLORDANE													0.50 UG/L		U
HEPTACHLOR	0.30 UG/L		U										0.05 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	116216			116252			116257			116075			116074		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR EPOXIDE	8.30 UG/L		U										0.05 UG/L		U
METHOXYCHLOR	18.00 UG/L		U										0.50 UG/L		U
TOXAPHENE	24.00 UG/L		U										1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE	50.00 UG/L		U										20.00 UG/L		U
2,4,5-TRICHLOROPHENOL	50.00 UG/L		U										100.00 UG/L		U
2,4,6-TRICHLOROPHENOL	50.00 UG/L		U										20.00 UG/L		U
2,4-DINITROTOLUENE	50.00 UG/L		U										20.00 UG/L		U
HEXACHLOROBENZENE	50.00 UG/L		U										20.00 UG/L		U
HEXACHLOROBUTADIENE	50.00 UG/L		U										20.00 UG/L		U
HEXACHLOROETHANE	50.00 UG/L		U										20.00 UG/L		U
NITROBENZENE	50.00 UG/L		U										20.00 UG/L		U
PENTACHLOROPHENOL	250.00 UG/L		U										100.00 UG/L		U
PYRIDINE	250.00 UG/L		U										200.00 UG/L		U
TOTAL METHYLPHENOL	50.00 UG/L		U										20.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U			
1,2-DICHLOROETHANE	5.00 UG/L		U							5.00 UG/L		U			
2-BUTANONE	10.00 UG/L		UR							10.00 UG/L		U			
BENZENE	5.00 UG/L		U							5.00 UG/L		U			
CARBON TETRACHLORIDE	5.00 UG/L		U							5.00 UG/L		U			
CHLOROBENZENE	5.00 UG/L		U							5.00 UG/L		U			
CHLOROFORM	5.00 UG/L		U							5.00 UG/L		U			
TETRACHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U			
TRICHLOROETHENE	5.00 UG/L		U							5.00 UG/L		U			
VINYL CHLORIDE	10.00 UG/L		U							10.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	010170	055411	055453	055494	104450
TASK:	3.2	3.7	3.7	3.7	50.03.12
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	2094	21191	21192	21193	2166
DEPTH:	16-16	-	-	-	-
DATE COLLECTED:	17-JUN-88	19-MAY-90	20-MAY-90	22-MAY-90	19-OCT-92
NORTH COORDINATE:	470832.49	477071.1	477022.52	476976.12	476523.77
EAST COORDINATE:	1380701.68	1379636.54	1379642.08	1379619.39	1381106.59
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	3.86 % MOISTURE		NV										36.00 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)				2.00 UG/L		UJ	2.00 UG/L		UJ	1.70 UG/L		U			
2,4-D				12.00 UG/L		UJ	12.00 UG/L		U	12.00 UG/L		U			
INORGANICS															
ARSENIC				0.22 MG/L		-	0.27 MG/L		-	0.01 MG/L		U	0.05 MG/L		U
BARIUM				0.21 MG/L		-	0.23 MG/L		-	0.30 MG/L		U	0.92 MG/L		J
CADMIUM				0.02 MG/L		-	0.02 MG/L		-	0.01 MG/L		U	0.01 MG/L		U
CHROMIUM				0.29 MG/L		-	0.31 MG/L		-	0.08 MG/L		U	0.01 MG/L		U
LEAD				0.10 MG/L		-	0.11 MG/L		-	0.12 MG/L		U	0.04 MG/L		U
MERCURY				0.00 MG/L		UJ	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U
SELENIUM				0.17 MG/L		-	0.19 MG/L		-	0.01 MG/L		UJ	0.08 MG/L		U
SILVER				0.16 MG/L		-	0.16 MG/L		-	0.02 MG/L		U	0.01 MG/L		U
No sort code listed.															
3-METHYLPHENOL				10.00 UG/L		UR	10.00 UG/L		UJ						
PESTICIDES															
CHLORDANE				0.50 UG/L		UJ	0.50 UG/L		UJ	0.50 UG/L		U			
ENDRIN				0.10 UG/L		UJ	0.10 UG/L		UJ	0.10 UG/L		U			
GAMMA-BHC (LINDANE)				0.05 UG/L		UJ	0.05 UG/L		UJ	0.05 UG/L		U			
HEPTACHLOR				0.05 UG/L		UJ	0.05 UG/L		UJ	0.05 UG/L		U			
HEPTACHLOR EPOXIDE				0.05 UG/L		UJ	0.05 UG/L		UJ	0.05 UG/L		U			
METHOXYCHLOR				0.50 UG/L		UJ	0.50 UG/L		UJ	0.50 UG/L		U			

000483

5204

SAMPLE NUMBER:	010170			055411			055453			055494			104450		
LAB:				IT			IT			IT					
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
TOXAPHENE				1.00 UG/L		UJ	1.00 UG/L		UJ	1.00 UG/L		U			
SEMIVOLATILES															
1,4-DICHLOROBENZENE				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
2,4,5-TRICHLOROPHENOL				50.00 UG/L		UJ	50.00 UG/L		UJ	50.00 UG/L		U			
2,4,6-TRICHLOROPHENOL				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
2,4-DINITROTOLUENE				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
2-METHYLPHENOL				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
4-METHYLPHENOL				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
HEXACHLOROBENZENE				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
HEXACHLOROBUTADIENE				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
HEXACHLOROETHANE				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
NITROBENZENE				10.00 UG/L		UJ	10.00 UG/L		UJ	10.00 UG/L		U			
PENTACHLOROPHENOL				50.00 UG/L		UJ	50.00 UG/L		UJ	50.00 UG/L		U			
PYRIDINE				10.00 UG/L		UR	10.00 UG/L		UJ	50.00 UG/L		U			
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U			
1,2-DICHLOROETHANE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U			
2-BUTANONE				10.00 UG/L		U	11.00 UG/L		U	12.00 UG/L		U			
BENZENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U			
CARBON TETRACHLORIDE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U			
CHLOROBENZENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U			
CHLOROFORM				5.00 UG/L		U	9.00 UG/L		-	5.00 UG/L		U			
TETRACHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U			
TRICHLOROETHENE				5.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		U			
VINYL CHLORIDE				10.00 UG/L		U	11.00 UG/L		U	10.00 UG/L		U			

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	107633	033483	033493	033470	033472
TASK:	50.03.22	3.2	3.11	3.2	3.2
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	2454	2552	2553	2557	2557
DEPTH:	0-6.3	-	-	-	-
DATE COLLECTED:	09-AUG-93	31-OCT-91	30-OCT-91	23-OCT-91	23-OCT-91
NORTH COORDINATE:	481201.04	473909.82	473343.11	470857.04	470857.04
EAST COORDINATE:	1379310.18	1379195.32	1378885.6	1379674.16	1379674.16
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
HERBICIDES															
2,4,5-TP (SILVEX)				1.70 UG/L		U	1.80 UG/L		U	1.80 UG/L		UJ	1.80 UG/L		UJ
2,4-D				12.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		UJ	10.00 UG/L		UJ
INORGANICS															
ARSENIC	0.05 MG/L		U	0.50 MG/L		U	0.25 MG/L		U	0.25 MG/L		UJ	0.25 MG/L		UJ
BARIUM	0.60 MG/L		-	0.24 MG/L		U	0.53 MG/L		-	0.71 MG/L		J	0.59 MG/L		J
CADMIUM	0.01 MG/L		U	0.01 MG/L		U	0.02 MG/L		-	0.01 MG/L		J	0.02 MG/L		J
CHROMIUM	0.02 MG/L		-	0.03 MG/L		U	0.13 MG/L		-	0.12 MG/L		J	0.12 MG/L		J
LEAD	0.04 MG/L		U	0.10 MG/L		U	0.17 MG/L		-	0.16 MG/L		J	0.15 MG/L		J
MERCURY	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		UJ	0.00 MG/L		UJ
SELENIUM	0.07 MG/L		U	0.50 MG/L		U	0.15 MG/L		-	0.15 MG/L		J	0.19 MG/L		J
SILVER	0.01 MG/L		UJ	0.05 MG/L		UJ	0.11 MG/L		-	0.10 MG/L		J	0.09 MG/L		J
No sort code listed.															
3-METHYLPHENOL							20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
PESTICIDES															
ALPHA-CHLORDANE							0.50 UG/L		U	0.50 UG/L		UJ	0.50 UG/L		UJ
CHLORDANE				0.70 UG/L		U									
ENDRIN				0.30 UG/L		U	0.10 UG/L		U	0.10 UG/L		UJ	0.10 UG/L		UJ
GAMMA-BHC (LINDANE)				0.20 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ	0.05 UG/L		UJ
GAMMA-CHLORDANE							0.50 UG/L		U	0.50 UG/L		UJ	0.50 UG/L		UJ
HEPTACHLOR				0.15 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ	0.05 UG/L		UJ
HEPTACHLOR EPOXIDE				4.20 UG/L		U	0.05 UG/L		U	0.05 UG/L		UJ	0.05 UG/L		UJ
METHOXYCHLOR				8.80 UG/L		U	0.50 UG/L		U	0.50 UG/L		UJ	0.50 UG/L		UJ
TOXAPHENE				12.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		UJ	1.00 UG/L		UJ

000485

5204

SEMIVOLATILES															
1,4-DICHLOROBENZENE				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ

06/14/94

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

DRAFT
Page 238

SAMPLE NUMBER:	107633			033483			033493			033470			033472		
LAB:				IT			IT			IT			IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL				40.00 UG/L		U	100.00 UG/L		U	100.00 UG/L		UJ	100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
2,4-DINITROTOLUENE				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
2-METHYLPHENOL				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
4-METHYLPHENOL				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
HEXACHLOROBENZENE				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
HEXACHLOROBUTADIENE				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
HEXACHLOROETHANE				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
NITROBENZENE				40.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
PENTACHLOROPHENOL				200.00 UG/L		U	100.00 UG/L		U	100.00 UG/L		UJ	100.00 UG/L		UJ
PYRIDINE				400.00 UG/L		U	20.00 UG/L		U	20.00 UG/L		UJ	20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
1,2-DICHLOROETHANE				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
2-BUTANONE				100.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		UJ	10.00 UG/L		UJ
BENZENE				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
CARBON TETRACHLORIDE				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
CHLOROBENZENE				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
CHLOROFORM				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
TETRACHLOROETHENE				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
TRICHLOROETHENE				50.00 UG/L		U	5.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		UJ
VINYL CHLORIDE				100.00 UG/L		U	10.00 UG/L		U	10.00 UG/L		UJ	10.00 UG/L		UJ

000486

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	033474	000829	033153	033115	000835
TASK:	3.2	50.03.04	3.2	3.2	50.03.04
LAB:	IT	IT	IT-KNOX	IT	IT
WELL OR BORING NUMBER:	2557	2643	2643	2648	2649
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-OCT-91	25-AUG-91	02-OCT-90	19-SEP-90	25-AUG-91
NORTH COORDINATE:	470857.04	481904.04	481904.04	481508.29	481167.42
EAST COORDINATE:	1379674.16	1378738.65	1378738.65	1379062.57	1378125.73
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
AMMONIA				0.10 MG/L		U									
CHLORIDE				0.50 MG/L		U									
FLUORIDE				0.10 MG/L		U									
NITRATE				0.18 MG/L		-									
PHENOLS				0.01 MG/L		U									
PHOSPHORUS				0.02 MG/L		U									
SULFATE				2.00 MG/L		U									
SULFIDE				0.50 MG/L		U									
TOTAL ORGANIC CARBON				1.00 MG/L		U									
TOTAL ORGANIC HALIDES				0.01 MG/L		U									
TOTAL ORGANIC NITROGEN				0.10 MG/L		U									
HERBICIDES															
2,4,5-TP (SILVEX)	1.80 UG/L		UJ	17.00 UG/L		U	1.70 UG/L		U	2.00 UG/L		R	17.00 UG/L		U
2,4-D	10.00 UG/L		UJ	120.00 UG/L		U	12.00 UG/L		U	12.00 UG/L		R	120.00 UG/L		U
INORGANICS															
ARSENIC	0.25 MG/L		UJ	0.05 MG/L		U	0.11 MG/L		U	0.29 MG/L		U	0.05 MG/L		U
BARIUM	0.75 MG/L		J	0.74 MG/L		U	0.70 MG/L		J	1.25 MG/L		-	1.27 MG/L		U
CADMIUM	0.02 MG/L		J	0.00 MG/L		U	0.01 MG/L		J	0.01 MG/L		U	0.00 MG/L		U
CHROMIUM	0.12 MG/L		J	0.00 MG/L		U	0.02 MG/L		J	0.08 MG/L		-	0.00 MG/L		U
LEAD	0.13 MG/L		J	0.04 MG/L		U	0.04 MG/L		UJ	0.20 MG/L		U	0.04 MG/L		U
MERCURY	0.00 MG/L		UJ	0.00 MG/L		UJ	0.00 MG/L		U	0.00 MG/L		U	0.00 MG/L		UJ
SELENIUM	0.16 MG/L		J	0.07 MG/L		U	0.10 MG/L		U	0.40 MG/L		U	0.07 MG/L		U
SILVER	0.09 MG/L		J	0.00 MG/L		U	0.01 MG/L		J	0.08 MG/L		-	0.00 MG/L		U

No sort code listed.

000487

5704

3-METHYLPHENOL	20.00 UG/L		UJ							20.00 UG/L		R			
06/14/94															
SAMPLE NUMBER:	033474			000829			033153			033115			000835		
LAB:	IT									IT					
SUFFIX/FILTERFLAG:	NONE-NA			-			-			NONE-NA			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
ALPHA-CHLORDANE	0.50 UG/L		UJ				0.50 UG/L		U						
CHLORDANE				0.70 UG/L		U	1.00 UG/L		U	0.50 UG/L		R	0.70 UG/L		U
ENDRIN	0.10 UG/L		UJ	0.30 UG/L		U	0.10 UG/L		U	0.10 UG/L		R	0.30 UG/L		U
GAMMA-BHC (LINDANE)	0.05 UG/L		UJ	0.20 UG/L		U	0.05 UG/L		U	0.05 UG/L		R	0.20 UG/L		U
GAMMA-CHLORDANE	0.50 UG/L		UJ				0.50 UG/L		U						
HEPTACHLOR	0.05 UG/L		UJ	0.15 UG/L		U	0.05 UG/L		U	0.05 UG/L		R	0.15 UG/L		U
HEPTACHLOR EPOXIDE	0.05 UG/L		UJ	4.20 UG/L		U	0.05 UG/L		U	0.05 UG/L		R	4.20 UG/L		U
METHOXYCHLOR	0.50 UG/L		UJ	8.80 UG/L		U	0.50 UG/L		U	0.50 UG/L		R	8.80 UG/L		U
TOXAPHENE	1.00 UG/L		UJ	12.00 UG/L		U	1.00 UG/L		U	1.00 UG/L		R	12.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
2,4,5-TRICHLOROPHENOL	100.00 UG/L		UJ	40.00 UG/L		U				100.00 UG/L		R	40.00 UG/L		U
2,4,6-TRICHLOROPHENOL	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
2,4-DINITROTOLUENE	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
2-METHYLPHENOL	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
4-METHYLPHENOL	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
HEXACHLOROBENZENE	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
HEXACHLOROBUTADIENE	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
HEXACHLOROETHANE	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
NITROBENZENE	20.00 UG/L		UJ	40.00 UG/L		U				20.00 UG/L		R	40.00 UG/L		U
PENTACHLOROPHENOL	100.00 UG/L		UJ	200.00 UG/L		U				100.00 UG/L		R	200.00 UG/L		U
PYRIDINE	20.00 UG/L		UJ	400.00 UG/L		U				20.00 UG/L		R	400.00 UG/L		U
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
1,2-DICHLOROETHANE	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
2-BUTANONE	10.00 UG/L		UJ	100.00 UG/L		U	10.00 UG/L		UJ	5.00 UG/L		U	100.00 UG/L		U
BENZENE	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
CARBON TETRACHLORIDE	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
CHLOROBENZENE	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
CHLOROFORM	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
TETRACHLOROETHENE	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
TRICHLOROETHENE	5.00 UG/L		UJ	50.00 UG/L		U	5.00 UG/L		UJ	5.00 UG/L		R	50.00 UG/L		U
VINYL CHLORIDE	10.00 UG/L		UJ	100.00 UG/L		U	10.00 UG/L		UJ	10.00 UG/L		R	100.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	033191	100371	100577	100554	100565
TASK:	3.2	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	2649	2728	2731	2731	2731
DEPTH:	-	0-.5	0-.5	6.5-7	15.5-16
DATE COLLECTED:	17-OCT-90	19-MAR-92	09-JAN-92	08-JAN-92	08-JAN-92
NORTH COORDINATE:	481167.42	483301.63	484155	484155	484155
EAST COORDINATE:	1378125.73	1377960.59	1382895	1382895	1382895
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				23.00 %		NV	21.00 %		NV						
CATION EXCHANGE CAPACITY										3.83 MEQ/L		J	5.11 MEQ/L		J
HERBICIDES															
2,4,5-TP (SILVEX)	1.90 UG/L		U												
2,4-D	13.30 UG/L		U												
INORGANICS															
ARSENIC	250.00 MG/L		UJ												
BARIUM	807.00 MG/L		J												
CADMIUM	5.75 MG/L		J												
CHROMIUM	143.00 MG/L		J												
LEAD	200.00 MG/L		UJ												
MERCURY	0.20 MG/L		UJ												
SELENIUM	113.00 MG/L		J												
SILVER	84.60 MG/L		J												
PESTICIDES															
ALPHA-CHLORDANE	1.00 UG/L		U												
CHLORDANE	2.00 UG/L		U												
ENDRIN	0.20 UG/L		U												
GAMMA-BHC (LINDANE)	0.10 UG/L		U												
GAMMA-CHLORDANE	1.00 UG/L		U												
HEPTACHLOR	0.10 UG/L		U												
HEPTACHLOR EPOXIDE	0.10 UG/L		U												
METHOXYCHLOR	1.00 UG/L		U												
TOXAPHENE	2.00 UG/L		U												

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	033191			100371			100577			100554			100565		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1-DICHLOROETHENE	5.00 UG/L		U												
1,2-DICHLOROETHANE	5.00 UG/L		U												
2-BUTANONE	3.00 UG/L		J												
BENZENE	5.00 UG/L		U												
CARBON TETRACHLORIDE	5.00 UG/L		U												
CHLOROBENZENE	1.00 UG/L		J												
CHLOROFORM	5.00 UG/L		U												
TETRACHLOROETHENE	5.00 UG/L		U												
TRICHLOROETHENE	5.00 UG/L		U												
VINYL CHLORIDE	10.00 UG/L		U												

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	100318	065050	111385	033496	070261
TASK:	03.01.01	04.19	20.03.05	3.2	04.22
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	2733	2822	2947	2998	3019
DEPTH:	0-.5	-	-	-	-
DATE COLLECTED:	24-JAN-92	28-MAY-92	19-APR-93	07-NOV-91	06-AUG-92
NORTH COORDINATE:	477070.67	481233.45	482120.02	476594.37	481675.11
EAST COORDINATE:	1383161.03	1378484.44	1379906.75	1381395.63	1379097.62
QA TYPE:	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	NONE-UNF

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV												
HERBICIDES															
2,4,5-TP (SILVEX)				1.80 UG/L		U				1.80 UG/L		U	1.80 UG/L		U
2,4-D				10.00 UG/L		U				10.00 UG/L		U	10.00 UG/L		U
INORGANICS															
ARSENIC				0.26 MG/L		U	0.03 MG/L		UJ	0.25 MG/L		U	0.05 MG/L		U
BARIUM				0.90 MG/L		-	1.22 MG/L		-	0.35 MG/L		-	0.96 MG/L		-
CADMIUM				0.03 MG/L		U	0.00 MG/L		U	0.02 MG/L		-	0.01 MG/L		U
CHROMIUM				0.01 MG/L		U	0.00 MG/L		U	0.12 MG/L		-	0.01 MG/L		U
LEAD				0.23 MG/L		U	0.02 MG/L		UJ	0.16 MG/L		-	0.04 MG/L		U
MERCURY				0.00 MG/L		U	0.00 MG/L		UJ	0.00 MG/L		U	0.00 MG/L		U
SELENIUM				0.10 MG/L		U	0.03 MG/L		UJ	0.16 MG/L		-	0.08 MG/L		U
SILVER				5.00 MG/L		R	0.00 MG/L		UJ	0.10 MG/L		-	0.01 MG/L		U
No sort code listed.															
3-METHYLPHENOL										20.00 UG/L		U			
PESTICIDES															
ALPHA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		UJ	0.50 UG/L		U
ENDRIN				0.10 UG/L		U				0.10 UG/L		UJ	0.10 UG/L		U
GAMMA-BHC (LINDANE)				0.05 UG/L		U				0.05 UG/L		UJ	0.05 UG/L		U
GAMMA-CHLORDANE				0.50 UG/L		U				0.50 UG/L		UJ	0.50 UG/L		U
HEPTACHLOR				0.05 UG/L		U				0.05 UG/L		UJ	0.05 UG/L		U
HEPTACHLOR EPOXIDE				0.05 UG/L		U				0.05 UG/L		UJ	0.05 UG/L		U

000491

5704

SAMPLE NUMBER:	100318			065050			111385			033496			070261		
LAB:				IT						IT			IT		
SUFFIX/FILTERFLAG:	-			NONE-NA			-			R-NA			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR				0.50 UG/L		U				0.50 UG/L		UJ	0.50 UG/L		U
TOXAPHENE				1.00 UG/L		U				1.00 UG/L		UJ	1.00 UG/L		U
SEMIVOLATILES															
1,4-DICHLOROBENZENE				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
2,4,5-TRICHLOROPHENOL				100.00 UG/L		U				100.00 UG/L		U	100.00 UG/L		UJ
2,4,6-TRICHLOROPHENOL				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
2,4-DINITROTOLUENE				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
2-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
4-METHYLPHENOL				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
HEXACHLOROBENZENE				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
HEXACHLOROBUTADIENE				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
HEXACHLOROETHANE				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
NITROBENZENE				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
PENTACHLOROPHENOL				100.00 UG/L		U				100.00 UG/L		U	100.00 UG/L		UJ
PYRIDINE				20.00 UG/L		U				20.00 UG/L		U	20.00 UG/L		UJ
VOLATILES															
1,1-DICHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U	5.00 UG/L		U
1,2-DICHLOROETHANE				5.00 UG/L		U				2.00 UG/L		U	5.00 UG/L		U
2-BUTANONE				10.00 UG/L		U				10.00 UG/L		J	1.00 UG/L		U
BENZENE				5.00 UG/L		U				5.00 UG/L		U	5.00 UG/L		U
CARBON TETRACHLORIDE				5.00 UG/L		U				5.00 UG/L		U	5.00 UG/L		U
CHLOROBENZENE				5.00 UG/L		U				5.00 UG/L		U	5.00 UG/L		U
CHLOROFORM				5.00 UG/L		U				5.00 UG/L		U	5.00 UG/L		U
TETRACHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U	5.00 UG/L		U
TRICHLOROETHENE				5.00 UG/L		U				5.00 UG/L		U	5.00 UG/L		U
VINYL CHLORIDE				10.00 UG/L		U				10.00 UG/L		U	10.00 UG/L		U

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	033578	103604	103606	103608	103610
TASK:	3.2	04.20	04.20	04.20	04.20
LAB:	IT	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	3421	ASI-17	ASI-17	ASI-17	ASI-17
DEPTH:	-	0-.17	.17-.33	.33-.5	.5-1
DATE COLLECTED:	03-DEC-91	28-SEP-92	28-SEP-92	28-SEP-92	28-SEP-92
NORTH COORDINATE:	481662.64	479864.6	479864.6	479864.6	479864.6
EAST COORDINATE:	1382074.74	1383043	1383043	1383043	1383043
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				24.80 %		NV	24.20 %		NV	20.80 %		NV	18.80 %		NV
HERBICIDES															
2,4,5-TP (SILVEX)	1.70 UG/L		U												
2,4-D	12.00 UG/L		U												
INORGANICS															
ARSENIC	0.50 MG/L		U												
BARIUM	0.32 MG/L		-												
CADMIUM	0.01 MG/L		U												
CHROMIUM	0.03 MG/L		U												
LEAD	0.10 MG/L		U												
MERCURY	0.00 MG/L		U												
SELENIUM	0.50 MG/L		U												
SILVER	0.05 MG/L		U												
PESTICIDES															
CHLORDANE	0.70 UG/L		U												
ENDRIN	0.30 UG/L		U												
GAMMA-BHC (LINDANE)	0.20 UG/L		U												
HEPTACHLOR	0.15 UG/L		U												
HEPTACHLOR EPOXIDE	4.20 UG/L		U												
METHOXYCHLOR	8.80 UG/L		U												
TOXAPHENE	12.00 UG/L		U												
SEMIVOLATILES															

1,4-DICHLOROBENZENE 06/14/94	40.00 UG/L		U															
SAMPLE NUMBER:	033578			103604			103606			103608			103610		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2,4,5-TRICHLOROPHENOL	40.00 UG/L		U												
2,4,6-TRICHLOROPHENOL	40.00 UG/L		U												
2,4-DINITROTOLUENE	40.00 UG/L		U												
2-METHYLPHENOL	40.00 UG/L		U												
4-METHYLPHENOL	40.00 UG/L		U												
HEXACHLOROBENZENE	40.00 UG/L		U												
HEXACHLOROBUTADIENE	40.00 UG/L		U												
HEXACHLOROETHANE	40.00 UG/L		U												
NITROBENZENE	40.00 UG/L		U												
PENTACHLOROPHENOL	200.00 UG/L		U												
PYRIDINE	400.00 UG/L		U												
VOLATILES															
1,1-DICHLOROETHENE	50.00 UG/L		U												
1,2-DICHLOROETHANE	50.00 UG/L		U												
2-BUTANONE	100.00 UG/L		U												
BENZENE	50.00 UG/L		U												
CARBON TETRACHLORIDE	50.00 UG/L		U												
CHLOROBENZENE	50.00 UG/L		U												
CHLOROFORM	50.00 UG/L		U												
TETRACHLOROETHENE	50.00 UG/L		U												
TRICHLOROETHENE	50.00 UG/L		U												
VINYL CHLORIDE	100.00 UG/L		U												

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	103612			103614			103620			103622			103624		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	ASI-17			ASI-17			ASI-18			ASI-18			ASI-18		
DEPTH:	1-1.5			1.5-2			0-.17			.17-.33			.33-.5		
DATE COLLECTED:	28-SEP-92			28-SEP-92			28-SEP-92			28-SEP-92			28-SEP-92		
NORTH COORDINATE:	479864.6			479864.6			479934.5			479934.5			479934.5		
EAST COORDINATE:	1383043			1383043			1383074.8			1383074.8			1383074.8		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.30 %		NV	17.00 %		NV	23.10 %		NV	22.30 %		NV	21.80 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	103626	103628	103630	103517	103518
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	ASI-18	ASI-18	ASI-18	ASI-2	ASI-2
DEPTH:	.5-1	1-1.5	1.5-2	0-.17	.17-.33
DATE COLLECTED:	28-SEP-92	28-SEP-92	28-SEP-92	21-SEP-92	21-SEP-92
NORTH COORDINATE:	479934.5	479934.5	479934.5	480287.794	480287.794
EAST COORDINATE:	1383074.8	1383074.8	1383074.8	1383058.99	1383058.99
QA TYPE:	NORMAL	NORMAL	NORMAL	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	16.00 %		NV	20.00 %		NV	29.30 %		NV	20.10 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	103520			103522			103524			103550			103548		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	ASI-2			ASI-2			ASI-2			ASI-3			ASI-4		
DEPTH:	.33-.5			.5-1			1-1.5			.17-.33			0-.17		
DATE COLLECTED:	21-SEP-92			21-SEP-92			21-SEP-92			22-SEP-92			22-SEP-92		
NORTH COORDINATE:	480287.794			480287.794			480287.794			480112.1			480123		
EAST COORDINATE:	1383058.99			1383058.99			1383058.99			1382908.9			1382850.4		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.70 %		NV	17.40 %		NV	20.50 %		NV	23.70 %		NV	29.80 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	103552			103554			103556			103558			103560		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	ASI-4			ASI-4			ASI-4			ASI-5			ASI-5		
DEPTH:	.33-.5			.5-1			1-1.5			0-.17			.17-.33		
DATE COLLECTED:	22-SEP-92			22-SEP-92			22-SEP-92			22-SEP-92			22-SEP-92		
NORTH COORDINATE:	480123			480123			480123			480137.6			480137.6		
EAST COORDINATE:	1382850.4			1382850.4			1382850.4			1382772.6			1382772.6		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.90 %		NV	21.10 %		NV	22.60 %		NV	46.10 %		NV	33.30 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	103562	103564	103566	103569	103571
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	ASI-5	ASI-5	ASI-5	ASI-6	ASI-6
DEPTH:	.33-.5	.5-1	1-1.5	0-.17	.17-.33
DATE COLLECTED:	22-SEP-92	22-SEP-92	22-SEP-92	23-SEP-92	23-SEP-92
NORTH COORDINATE:	480137.6	480137.6	480137.6	480055.2	480055.2
EAST COORDINATE:	1382772.6	1382772.6	1382772.6	1382898.2	1382898.2
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	27.80 %		NV	22.40 %		NV	21.90 %		NV	29.60 %		NV	22.30 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	103573			103575			103579			103581			103583		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	ASI-6			ASI-6			ASI-7			ASI-7			ASI-7		
DEPTH:	.33-.5			.5-1			0-.17			.17-.33			.33-.5		
DATE COLLECTED:	23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92		
NORTH COORDINATE:	480055.2			480055.2			480018.5			480018.5			480018.5		
EAST COORDINATE:	1382898.2			1382898.2			1382904.7			1382904.7			1382904.7		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.90 %		NV	17.40 %		NV	32.10 %		NV	28.60 %		NV	26.90 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	103585			103587			104001			104003			104005		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	ASI-7			ASI-7			C-1			C-1			C-1		
DEPTH:	.5-1			1-1.5			0-.17			.17-.33			.33-.5		
DATE COLLECTED:	23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92		
NORTH COORDINATE:	480018.5			480018.5			480711.945			480711.945			480711.945		
EAST COORDINATE:	1382904.7			1382904.7			1383438.53			1383438.53			1383438.53		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.90 %		NV	21.00 %		NV	24.30 %		NV	25.50 %		NV	25.10 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104055			104057			104059			104007			104009		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	C-10			C-10			C-10			C-2			C-2		
DEPTH:	-.17			.17-.33			.33-.5			0-.17			.17-.33		
DATE COLLECTED:	24-SEP-92			24-SEP-92			24-SEP-92			23-SEP-92			23-SEP-92		
NORTH COORDINATE:	480488.064			480488.064			480488.064			480662.719			480662.719		
EAST COORDINATE:	1383437.88			1383437.88			1383437.88			1383352.33			1383352.33		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	30.70 %		NV	27.40 %		NV	20.60 %		NV	28.50 %		NV	25.50 %		NV

000502

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104011	104013	104015	104017	104019
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	C-2	C-3	C-3	C-3	C-4
DEPTH:	.33-.5	0-.17	.17-.33	.33-.5	0-.17
DATE COLLECTED:	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92
NORTH COORDINATE:	480662.719	480612.987	480612.987	480612.987	480587.748
EAST COORDINATE:	1383352.33	1383437.86	1383437.86	1383437.86	1383287.36
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	23.70 %		NV	25.40 %		NV	24.90 %		NV	25.60 %		NV	29.30 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104021			104023			104025			104027			104029		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	C-4			C-4			C-5			C-5			C-5		
DEPTH:	.17-.33			.33-.5			0-.17			.17-.33			.33-.5		
DATE COLLECTED:	23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92		
NORTH COORDINATE:	480587.748			480587.748			480563.195			480563.195			480563.195		
EAST COORDINATE:	1383287.36			1383287.36			1383362.93			1383362.93			1383362.93		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	24.10 %		NV	21.90 %		NV	28.50 %		NV	24.30 %		NV	22.70 %		NV

000504

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104031			104033			104035			075503			104037		
TASK:	04.20			04.20			04.20			04.01			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			IT			DATACHEM		
WELL OR BORING NUMBER:	C-6			C-6			C-6			C-7			C-7		
DEPTH:	0-.17			.17-.33			.33-.5			0-.5			0-.17		
DATE COLLECTED:	23-SEP-92			23-SEP-92			23-SEP-92			10-NOV-91			23-SEP-92		
NORTH COORDINATE:	480512.45			480512.45			480512.45			480512.877			480512.877		
EAST COORDINATE:	1383312.55			1383312.55			1383312.55			1383337.95			1383337.95		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.90 %		NV	22.40 %		NV	20.70 %		NV	9.00 % MOISTURE		NV	23.50 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104039	104041	104043	104045	104047
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	C-7	C-7	C-8	C-8	C-8
DEPTH:	.17-.33	.33-.5	0-.17	.17-.33	.33-.5
DATE COLLECTED:	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92
NORTH COORDINATE:	480512.877	480512.877	480512.884	480512.884	480512.884
EAST COORDINATE:	1383337.95	1383337.95	1383462.74	1383462.74	1383462.74
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.30 %		NV	20.10 %		NV	24.50 %		NV	23.20 %		NV	23.50 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104049			104051			104053			104101			104103		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	C-9			C-9			C-9			D-1			D-1		
DEPTH:	-.17			.17-.33			.33-.5			-.17			.17-.33		
DATE COLLECTED:	24-SEP-92			24-SEP-92			24-SEP-92			24-SEP-92			24-SEP-92		
NORTH COORDINATE:	480487.471			480487.471			480487.471			480201.248			480201.248		
EAST COORDINATE:	1383312.91			1383312.91			1383312.91			1383302.83			1383302.83		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	30.40 %		NV	27.10 %		NV	23.70 %		NV	26.30 %		NV	24.00 %		NV

000507

6704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104105	104107	104109	104111	104113
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	D-1	D-2	D-2	D-2	D-3
DEPTH:	.33-.5	0-.17	.17-.33	.33-.5	-.17
DATE COLLECTED:	24-SEP-92	24-SEP-92	24-SEP-92	24-SEP-92	24-SEP-92
NORTH COORDINATE:	480201.248	480199.942	480199.942	480199.942	480151.351
EAST COORDINATE:	1383302.83	1383352.53	1383352.53	1383352.53	1383352.93
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.60 %		NV	26.10 %		NV	23.90 %		NV	21.10 %		NV	21.40 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	104115	104117	104119	104121	104123
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	D-3	D-3	D-4	D-4	D-4
DEPTH:	.17-.33	.33-.5	-.17	.17-.33	.33-.5
DATE COLLECTED:	24-SEP-92	24-SEP-92	24-SEP-92	24-SEP-92	24-SEP-92
NORTH COORDINATE:	480151.351	480151.351	480101.451	480101.451	480101.451
EAST COORDINATE:	1383352.93	1383352.93	1383351.43	1383351.43	1383351.43
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.30 %		NV	18.00 %		NV	21.60 %		NV	21.30 %		NV	20.70 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	075504	104125	104127	104129	099236
TASK:	04.01	04.20	04.20	04.20	50.03.07
LAB:	IT	DATACHEM	DATACHEM	DATACHEM	IT-KNOX
WELL OR BORING NUMBER:	D-5	D-5	D-5	D-5	FT-1
DEPTH:	0-.5	-.17	.17-.33	.33-.5	1-1.5
DATE COLLECTED:	10-NOV-91	24-SEP-92	24-SEP-92	24-SEP-92	29-DEC-92
NORTH COORDINATE:	480050.648	480050.648	480050.648	480050.648	482252.15
EAST COORDINATE:	1383350.03	1383350.03	1383350.03	1383350.03	1380198.15
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	6.00 % MOISTURE		NV	20.60 %		NV	20.20 %		NV	20.10 %		NV	31.00 UG/KG		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	099227	099229	099233	111790	111791
TASK:	50.03.07	50.03.07	50.03.07	20.03.05	20.03.05
LAB:	IT-KNOX	IT-KNOX	IT-KNOX	ITAS	ITAS
WELL OR BORING NUMBER:	FT-2	FT-3	FT-4	IFP-SS-01	IFP-SS-02
DEPTH:	1-1.5	1-1.5	1-1.5	0-.5	0-.5
DATE COLLECTED:	14-DEC-92	16-DEC-92	17-DEC-92	16-APR-93	16-APR-93
NORTH COORDINATE:	482250.45	482252.52	482199.48	477700.23	477780.39
EAST COORDINATE:	1380837.79	1380983.13	1380897.59	1379288.15	1379109.01
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 UG/KG		NV	22.00 UG/KG		NV	23.00 UG/KG		NV	39.70 %		NV	13.33 %		NV

000511

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	111792	111793	111794	111795	111796
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	ITAS	ITAS	ITAS	ITAS	ITAS
WELL OR BORING NUMBER:	IFP-SS-03	IFP-SS-04	IFP-SS-05	IFP-SS-06	IFP-SS-07
DEPTH:	0-.5	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:	16-APR-93	16-APR-93	16-APR-93	16-APR-93	16-APR-93
NORTH COORDINATE:	477812.34	477839.06	477981.13	478059.99	478165.89
EAST COORDINATE:	1379045.82	1378957.87	1379030.85	1378926.62	1379023.03
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	5.70 % MOISTURE		NV	21.55 %		NV	20.70 %		NV	19.05 %		NV	20.63 %		NV

000512

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	114564	934018666	934018667	099155	061401
TASK:	20.03.05	RCRACLOS	RCRACLOS	50.03.07	04.04
LAB:	ITAS	TCT ST. LOUIS	TCT ST. LOUIS	IT	IT
WELL OR BORING NUMBER:	LSP-SB-01	NAT666	NAT667	P1P2	P1P45
DEPTH:	.5-1	0-.5	0-.5	2-3	0-.5
DATE COLLECTED:	05-MAY-93	08-SEP-93	08-SEP-93	12-JAN-93	16-MAY-91
NORTH COORDINATE:	480660.61	482095.98	482084.62	481183.82	481159
EAST COORDINATE:	1379549.95	1349648.09	1349020.06	1380571.96	1380017.6
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-UNK	NONE-UNK	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.30 %		NV							25.00 UG/KG		NV	18.00 %		NV
INORGANICS															
CHROMIUM				0.01 MG/L		UNV	0.01 MG/L		UNV						

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061406	061408	061413	061415	061420
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P45	P1P46	P1P46	P1P47	P1P47
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	481159	481161	481161	481163.1	481163.1
EAST COORDINATE:	1380017.6	1379942.6	1379942.6	1379867.6	1379867.6
QA TYPE:	NORMAL	EXCAVATED	NORMAL	EXCAVATED	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	12.00 %		NV	11.00 %		NV	17.00 %		NV	17.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061429	061434	061422	061427	061394
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P48	P1P48	P1P49	P1P49	P1P50
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	17-MAY-91	17-MAY-91	16-MAY-91	16-MAY-91	15-MAY-91
NORTH COORDINATE:	481258.9	481258.9	481261	481261	481263
EAST COORDINATE:	1380020.3	1380020.3	1379945.3	1379945.3	1379870.4
QA TYPE:	EXCAVATED	NORMAL	EXCAVATED	NORMAL	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	16.00 %		NV	14.00 %		NV	18.00 %		NV	14.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061399			061373			061378			061352			061357		
TASK:	04.04			04.04			04.04			04.04			04.04		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	P1P50			P1P51			P1P51			P1P52			P1P52		
DEPTH:	1.5-2			0-.5			1.5-2			0-.5			1.5-2		
DATE COLLECTED:	15-MAY-91			15-MAY-91			15-MAY-91			14-MAY-91			14-MAY-91		
NORTH COORDINATE:	481263			481358.9			481358.9			481360.9			481360.9		
EAST COORDINATE:	1379870.4			1380023			1380023			1379948.1			1379948.1		
QA TYPE:	NORMAL			NORMAL			NORMAL			EXCAVATED			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	21.00 %		NV	11.00 %		NV	15.00 %		NV	10.00 %		NV

000516

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061359	061364	061436	061441	061387
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P53	P1P53	P1P54	P1P54	P1P55
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	14-MAY-91	14-MAY-91	17-MAY-91	17-MAY-91	15-MAY-91
NORTH COORDINATE:	481363	481363	481458	481458	481460
EAST COORDINATE:	1379873.1	1379873.1	1380058	1380058	1379983
QA TYPE:	EXCAVATED	NORMAL	EXCAVATED	NORMAL	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	12.00 %		NV	14.00 %		NV	11.00 %		NV	18.00 %		NV

000517

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061392	061380	061385	061443	061448
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P55	P1P56	P1P56	P1P57	P1P57
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	15-MAY-91	15-MAY-91	15-MAY-91	17-MAY-91	17-MAY-91
NORTH COORDINATE:	481460	481462.1	481462.1	481558	481558
EAST COORDINATE:	1379983	1379908	1379908	1380060.7	1380060.7
QA TYPE:	NORMAL	EXCAVATED	NORMAL	EXCAVATED	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	13.00 %		NV	9.00 % MOISTURE		NV	13.00 %		NV	13.00 %		NV

000518

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061366			061371			061347			061350			061463		
TASK:	04.04			04.04			04.04			04.04			04.04		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	P1P58			P1P58			P1P59			P1P59			P1P60		
DEPTH:	0-.5			1.5-2			0-.5			0-.5			1.5-2		
DATE COLLECTED:	15-MAY-91			15-MAY-91			14-MAY-91			14-MAY-91			18-MAY-91		
NORTH COORDINATE:	481560			481560			481562			481562			481657.9		
EAST COORDINATE:	1379985.7			1379985.7			1379910.7			1379910.7			1380063.4		
QA TYPE:	EXCAVATED			NORMAL			EXCAVATED			EXCAVATED			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	9.00 % MOISTURE		NV	10.00 %		NV	10.00 %		NV	23.00 %		NV

000519

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061450			061455			061465			061470			061479		
TASK:	04.04			04.04			04.04			04.04			04.04		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	P1P61			P1P61			P1P62			P1P62			P1P63		
DEPTH:	0-.5			1.5-2			0-.5			1.5-2			0-.5		
DATE COLLECTED:	17-MAY-91			17-MAY-91			18-MAY-91			18-MAY-91			19-MAY-91		
NORTH COORDINATE:	481659.9			481659.9			481662			481662			481860.8		
EAST COORDINATE:	1379988.4			1379988.4			1379913.5			1379913.5			1380036.8		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	DL-NA			R-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	8.00 % MOISTURE		NV	8.00 % MOISTURE		NV	13.00 %		NV	10.00 %		NV	11.00 %		NV

000520

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061484	061472	061477	061504	061505
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P63	P1P64	P1P64	P1P65	P1P65
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	19-MAY-91	19-MAY-91	19-MAY-91	02-JUN-91	02-JUN-91
NORTH COORDINATE:	481860.8	481862.6	481862.6	481975.8	481975.8
EAST COORDINATE:	1380036.8	1379972.8	1379972.8	1380039.9	1380039.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	13.00 %		NV	4.00 % MOISTURE		NV	15.00 %		NV	16.00 %		NV

000521

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061506	061507	UST28278	UST28280	UST28281
TASK:	04.04	04.04	UST	UST	UST
LAB:	IT	IT	NET	NET	NET
WELL OR BORING NUMBER:	P1P66	P1P66	USSO-041890-1	USSO-041890-3	USSO-041890-4
DEPTH:	0-.5	1.5-2	-	-	-
DATE COLLECTED:	02-JUN-91	02-JUN-91	18-APR-90	18-APR-90	18-APR-90
NORTH COORDINATE:	481977.5	481977.5	479833	479833	479833
EAST COORDINATE:	1379976	1379976	1381595	1381595	1381595
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	7.00 % MOISTURE		NV	13.00 %		NV									
INORGANICS															
ARSENIC							0.01 MG/L		NV	0.01 MG/L		UNV	0.01 MG/L		UNV
BARIUM							0.62 MG/L		NV	1.47 MG/L		NV	1.59 MG/L		NV
CADMIUM							0.04 MG/L		UNV	0.04 MG/L		UNV	0.04 MG/L		UNV
CHROMIUM							0.10 MG/L		UNV	0.20 MG/L		UNV	12.90 MG/L		NV
LEAD							0.40 MG/L		UNV	0.40 MG/L		UNV	0.40 MG/L		UNV
MERCURY							0.00 MG/L		UNV	0.00 MG/L		UNV	0.00 MG/L		UNV
SELENIUM							0.01 MG/L		UNV	0.01 MG/L		UNV	0.01 MG/L		UNV
SILVER							0.06 MG/L		UNV	0.06 MG/L		UNV	0.06 MG/L		UNV

000522

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	UST28282	UST28283	UST28275	UST28276	UST28277
TASK:	UST	UST	UST	UST	UST
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	USSO-041890-5	USSO-041890-6	USTC-041890-1	USTC-041890-2	USTC-041890-3
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-APR-90	18-APR-90	18-APR-90	18-APR-90	18-APR-90
NORTH COORDINATE:	479833	479833	479833	479833	479833
EAST COORDINATE:	1381595	1381595	1381595	1381595	1381595
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-UNF	NONE-UNF	NONE-UNF

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TPH							26.00 MG/L		NV	220.00 MG/L		NV	160.00 MG/L		NV
INORGANICS															
ARSENIC	0.01 MG/L		NV	0.01 MG/L		UNV									
BARIUM	2.12 MG/L		NV	0.40 MG/L		UNV									
CADMIUM	0.04 MG/L		UNV	0.04 MG/L		UNV									
CHROMIUM	1.75 MG/L		NV	0.10 MG/L		UNV									
LEAD	0.40 MG/L		UNV	0.40 MG/L		UNV									
MERCURY	0.00 MG/L		UNV	0.00 MG/L		UNV									
SELENIUM	0.01 MG/L		UNV	0.01 MG/L		UNV									
SILVER	0.06 MG/L		UNV	0.06 MG/L		UNV									
VOLATILES															
BENZENE							60.00 UG/L		UNV	60.00 UG/L		UNV	60.00 UG/L		UNV
ETHYLBENZENE							60.00 UG/L		UNV	60.00 UG/L		UNV	60.00 UG/L		UNV
TOLUENE							60.00 UG/L		UNV	60.00 UG/L		UNV	60.00 UG/L		UNV
XYLENES, TOTAL							60.00 UG/L		UNV	60.00 UG/L		UNV	2510.00 UG/L		NV

000523

9204

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061002			061007			061065			061070			061072		
TASK:	04.01			04.01			04.01			04.01			04.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	WPA1			WPA1			WPA10			WPA10			WPA11		
DEPTH:	0-.5			1.5-2			0-.5			1.5-2			0-.5		
DATE COLLECTED:	18-APR-91			18-APR-91			22-APR-91			22-APR-91			21-APR-91		
NORTH COORDINATE:	482447			482447			481144.8			481144.8			481044.9		
EAST COORDINATE:	1377970.4			1377970.4			1378034.8			1378034.8			1378032.1		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	14.00 %		NV	11.00 %		NV	15.00 %		NV	14.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061077			061079			061084			061086			061091		
TASK:	04.01			04.01			04.01			04.01			04.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	WPA11			WPA12			WPA12			WPA13			WPA13		
DEPTH:	1.5-2			0-.5			1.5-2			0-.5			1.5-2		
DATE COLLECTED:	21-APR-91			21-APR-91			21-APR-91			21-APR-91			21-APR-91		
NORTH COORDINATE:	481044.9			481042.1			481042.1			481039.4			481039.4		
EAST COORDINATE:	1378032.1			1378132			1378132			1378232			1378232		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			DL-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	12.00 %		NV	21.00 %		NV	11.00 %		NV	12.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061093	061098	061100	061105	061112
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA14	WPA14	WPA15	WPA15	WPA16
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	1.5-2
DATE COLLECTED:	25-APR-91	25-APR-91	25-APR-91	25-APR-91	25-APR-91
NORTH COORDINATE:	481033.9	481033.9	481028.5	481028.5	481128.4
EAST COORDINATE:	1378431.9	1378431.9	1378631.8	1378631.8	1378634.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	17.00 %		NV	20.00 %		NV	21.00 %		NV	13.00 %		NV

000526

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061114	061119	061121	061515	061126
TASK:	04.01	04.01	04.01	04.04	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA17	WPA17	WPA18	WPA18	WPA18
DEPTH:	0-.5	1.5-2	0-.5	.5-1	1.5-2
DATE COLLECTED:	25-APR-91	25-APR-91	27-APR-91	25-JUL-91	27-APR-91
NORTH COORDINATE:	481125.7	481125.7	480836.8	480836.8	480836.8
EAST COORDINATE:	1378734.5	1378734.5	1378326.4	1378326.4	1378326.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	15.00 %		NV	8.00 % MOISTURE		NV	2.00 % MOISTURE		NV	6.00 % MOISTURE		NV

000527

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061512	061514	061128	061133	061009
TASK:	04.04	04.04	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA18	WPA18	WPA19	WPA19	WPA2
DEPTH:	1.5-2	1.3-1.8	0-.5	1.5-2	0-.5
DATE COLLECTED:	24-JUL-91	25-JUL-91	27-APR-91	27-APR-91	19-APR-91
NORTH COORDINATE:	480836.8	480836.8	480636.9	480636.9	482344.3
EAST COORDINATE:	1378326.4	1378326.4	1378321	1378321	1378067.6
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	4.00 % MOISTURE		NV	4.00 % MOISTURE		NV	8.00 % MOISTURE		NV	11.00 %		NV	8.00 % MOISTURE		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061014			061135			061140			061142			061147		
TASK:	04.01			04.01			04.01			04.01			04.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	WPA2			WPA20			WPA20			WPA21			WPA21		
DEPTH:	1.5-2			0-.5			1.5-2			0-.5			1.5-2		
DATE COLLECTED:	19-APR-91			26-APR-91			26-APR-91			26-APR-91			26-APR-91		
NORTH COORDINATE:	482344.3			480437			480437			480221.7			480221.7		
EAST COORDINATE:	1378067.6			1378315.5			1378315.5			1378315.9			1378315.9		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	19.00 %		NV	13.00 %		NV	13.00 %		NV	11.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061150	061310	061163	061016	061021
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA22	WPA23	WPA24	WPA3	WPA3
DEPTH:	0-.5	0-.5	0-.5	0-.5	1.5-2
DATE COLLECTED:	21-APR-91	27-APR-91	27-APR-91	19-APR-91	19-APR-91
NORTH COORDINATE:	480037.1	480240.1	480228.8	482244.3	482244.3
EAST COORDINATE:	1378304.6	1378407	1378609.9	1378064.4	1378064.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	8.00 % MOISTURE		NV	17.00 %		NV	10.00 %		NV	12.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061205			061210			061212			061217			061220		
TASK:	04.01			04.01			04.01			04.01			04.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	WPA30			WPA30			WPA31			WPA31			WPA32		
DEPTH:	0-.5			1.5-2			0-.5			1.5-2			0-.5		
DATE COLLECTED:	24-APR-91			24-APR-91			24-APR-91			24-APR-91			23-APR-91		
NORTH COORDINATE:	480423.3			480423.3			480473.9			480473.9			480520.5		
EAST COORDINATE:	1378815.3			1378815.3			1378750.2			1378750.2			1378918		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	30.00 %		NV	15.00 %		NV	16.00 %		NV	13.00 %		NV	18.00 %		NV

000531

5704

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061225	061233	061238	061240	061245
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA32	WPA34	WPA34	WPA35	WPA35
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	26-APR-91	25-APR-91	25-APR-91	25-APR-91	25-APR-91
NORTH COORDINATE:	480520.5	480603.4	480603.4	480725.9	480725.9
EAST COORDINATE:	1378918	1378836.7	1378836.7	1378723.5	1378723.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV	13.00 %		NV	18.00 %		NV	10.00 %		NV	13.00 %		NV

000532

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061247	061252	061254	061258	061260
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA36	WPA36	WPA37	WPA37	WPA38
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	23-APR-91	23-APR-91	23-APR-91	23-APR-91	23-APR-91
NORTH COORDINATE:	480695.4	480695.4	480828.6	480828.6	482108.8
EAST COORDINATE:	1378922.7	1378922.7	1378626.3	1378626.3	1379361.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	17.00 %		NV	14.00 %		NV	9.00 % MOISTURE		NV	17.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061266	061268	061273	061023	061028
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA38	WPA39	WPA39	WPA4	WPA4
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	23-APR-91	23-APR-91	23-APR-91	20-APR-91	20-APR-91
NORTH COORDINATE:	482108.8	482106.1	482106.1	482044.4	482044.4
EAST COORDINATE:	1379361.5	1379461.5	1379461.5	1378059.4	1378059.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	17.00 %		NV	19.00 %		NV	20.00 %		NV	14.00 %		NV

000534

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061275			061280			061282			061287			061289		
TASK:	04.01			04.01			04.01			04.01			04.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	WPA40			WPA40			WPA41			WPA41			WPA42		
DEPTH:	0-.5			1.5-2			0-.5			1.5-2			0-.5		
DATE COLLECTED:	22-APR-91			22-APR-91			22-APR-91			22-APR-91			22-APR-91		
NORTH COORDINATE:	482006.1			482006.1			481903.4			481903.4			481806.2		
EAST COORDINATE:	1379458.8			1379458.8			1379556			1379556			1379453.3		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	15.00 %		NV	14.00 %		NV	14.00 %		NV	19.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061294	061295	061301	061303	061308
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA42	WPA43	WPA43	WPA44	WPA44
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	22-APR-91	22-APR-91	22-APR-91	23-APR-91	23-APR-91
NORTH COORDINATE:	481806.2	481709	481709	481606.3	481606.3
EAST COORDINATE:	1379453.3	1379350.6	1379350.6	1379447.8	1379447.8
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	20.00 %		NV	10.00 %		NV	20.00 %		NV	8.00 % MOISTURE		NV

000536

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061030			061035			061037			061042			061044		
TASK:	04.01			04.01			04.01			04.01			04.01		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	WPA5			WPA5			WPA6			WPA6			WPA7		
DEPTH:	0-.5			1.5-2			0-.5			1.5-2			0-.5		
DATE COLLECTED:	20-APR-91			20-APR-91			20-APR-91			20-APR-91			22-APR-91		
NORTH COORDINATE:	481844.5			481844.5			481650.1			481650.1			481450.2		
EAST COORDINATE:	1378053.9			1378053.9			1377848.6			1377848.6			1377843.1		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.00 %		NV	23.00 %		NV	10.00 %		NV	16.00 %		NV	13.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	061049	061050	061056	061058	075505
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA7	WPA8	WPA8	WPA9	WPS-E-5
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	0-.5
DATE COLLECTED:	22-APR-91	22-APR-91	22-APR-91	21-APR-91	10-NOV-91
NORTH COORDINATE:	481450.2	481475.5	481475.5	481147.6	481119.49
EAST COORDINATE:	1377843.1	1377937.6	1377937.6	1377934.8	1378025.57
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	8.00 % MOISTURE		NV	13.00 %		NV	17.00 %		NV	9.00 % MOISTURE		NV

000538

FERNALD ANALYTICAL REPORT
SOILS - TCLP/EPTOX

SAMPLE NUMBER:	075506			075507			075508								
TASK:	04.01			04.01			04.01								
LAB:	IT			IT			IT								
WELL OR BORING NUMBER:	WPS-F-7			WPS-G-22			WPS-H-15								
DEPTH:	0-.5			0-.5			0-.5			-			-		
DATE COLLECTED:	10-NOV-91			10-NOV-91			10-NOV-91								
NORTH COORDINATE:	481123.96			481077.57			481130.62								
EAST COORDINATE:	1378033.69			1378081.8			1378091.99								
QA TYPE:	NORMAL			NORMAL			NORMAL								
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	7.00 % MOISTURE		NV	9.00 % MOISTURE		NV	6.00 % MOISTURE		NV						

Geotechnical & Miscellaneous Data

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	020102	020108	100600	051413	016595
TASK:	3.8	3.8	03.01.01	3.7	3.7
LAB:	UNKNOWN	UNKNOWN	IT	IT	IT
WELL OR BORING NUMBER:	035	036	1070	1148	1183
DEPTH:	1-2.5	1-2.5	0-.5	4.5-5	0-.5
DATE COLLECTED:	15-MAR-88	17-MAR-88	04-JAN-92	02-AUG-89	23-OCT-89
NORTH COORDINATE:	481600	481800	476940.09	480424.65	480704.01
EAST COORDINATE:	1381950	1381950	1382104.84	1381655.96	1380355.3
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV	16.00 %		NV	21.00 %		NV	20.00 %		NV	11.00 %		NV
% SOLIDS	79.60 % SOLIDS		NV				79.00 % SOLIDS		NV				89.20 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	016597	051755	051954	017276	017719
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1183	1184	1193	1213	1234
DEPTH:	.5-1	5-5.5	6-7.5	6.5-7	0-.5
DATE COLLECTED:	23-OCT-89	06-JUN-89	01-DEC-89	04-JUN-89	27-JUL-89
NORTH COORDINATE:	480704.01	480702.37	480634.42	480519.86	480207.9
EAST COORDINATE:	1380355.3	1380398.11	1380378.43	1380217.86	1380230.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	5.00 % MOISTURE		NV	23.00 %		NV	0.00 % MOISTURE		NV	0.00 % MOISTURE		NV
% SOLIDS	84.60 % SOLIDS		NV												

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	018069	018071	052753	052754	018289
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1250	1250	1252	1252	1260
DEPTH:	0-.5	.5-1	0-.5	.5-1	0-.5
DATE COLLECTED:	09-JAN-90	09-JAN-90	15-JUN-89	15-JUN-89	15-JUN-89
NORTH COORDINATE:	479809.04	479809.04	479805.02	479805.02	479755.59
EAST COORDINATE:	1379858.62	1379858.62	1379911.5	1379911.5	1379915.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	DL-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	16.00 %		NV	11.00 %		NV	17.00 %		NV	11.00 %		NV
% SOLIDS	86.80 % SOLIDS		NV	83.90 % SOLIDS		NV	89.10 % SOLIDS		NV	83.00 % SOLIDS		NV	89.30 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	018290	018421	018422	018883	018884
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1260	1266	1266	1287	1287
DEPTH:	.5-1	0-.5	.5-1	0-.5	.5-1
DATE COLLECTED:	15-JUN-89	13-JUN-89	13-JUN-89	17-JUL-89	17-JUL-89
NORTH COORDINATE:	479755.59	479713.63	479713.63	481634.92	481634.92
EAST COORDINATE:	1379915.71	1380213.49	1380213.49	1380992.27	1380992.27
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	R-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	5.00 % MOISTURE		NV	23.00 %		NV	10.00 %		NV	11.00 %		NV	12.00 %		NV
% SOLIDS	94.70 % SOLIDS		NV	77.10 % SOLIDS		NV	89.90 % SOLIDS		NV	89.00 % SOLIDS		NV	87.80 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	053473	053474	019039	019345	019346
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1288	1288	1294	1308	1308
DEPTH:	0-.5	.5-1	2-3	0-.5	.5-1
DATE COLLECTED:	18-JUN-89	18-JUN-89	25-JUL-89	04-DEC-89	04-DEC-89
NORTH COORDINATE:	481643.94	481643.94	481401.55	480996.29	480996.29
EAST COORDINATE:	1381188.45	1381188.45	1381678.97	1381154.48	1381154.48
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	13.00 %		NV	0.00 % MOISTURE		NV	7.00 % MOISTURE		NV	4.00 % MOISTURE		NV
% SOLIDS	85.50 % SOLIDS		NV	87.00 % SOLIDS		NV				92.70 % SOLIDS		NV	95.60 % SOLIDS		NV

000545

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	019525	054053	054054	054193	019763
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1316	1317	1317	1324	1327
DEPTH:	2-2.5	1-1.5	1.5-2	4.5-5	0-.5
DATE COLLECTED:	19-NOV-89	14-NOV-89	14-NOV-89	03-NOV-89	23-OCT-89
NORTH COORDINATE:	480963.42	480947.54	480947.54	480828.51	480751.73
EAST COORDINATE:	1380974.63	1381246.91	1381246.91	1381681.83	1381356.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	10.00 %		NV	10.00 %		NV	14.00 %		NV	7.00 % MOISTURE		NV
% SOLIDS	89.20 % SOLIDS		NV	90.20 % SOLIDS		NV	89.70 % SOLIDS		NV				92.60 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	019764	050159	050160	054615	054616
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1327	1345	1345	1346	1346
DEPTH:	.5-1	1-1.5	1.5-2	1-1.5	1.5-2
DATE COLLECTED:	23-OCT-89	29-AUG-89	29-AUG-89	07-JAN-90	07-JAN-90
NORTH COORDINATE:	480751.73	481240.48	481240.48	481245.67	481245.67
EAST COORDINATE:	1381356.86	1380144.5	1380144.5	1380178.9	1380178.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	15.00 %		NV	30.00 %		NV	10.00 %		NV	21.00 %		NV
% SOLIDS	85.60 % SOLIDS		NV	85.00 % SOLIDS		NV	70.30 % SOLIDS		NV	90.00 % SOLIDS		NV	79.00 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	050554	050555	054995	054996	055089
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1363	1363	1411	1411	1412
DEPTH:	0-.5	.5-1	9.5-10	10-10.5	5.5-6
DATE COLLECTED:	25-JUL-89	25-JUL-89	20-JUN-89	20-JUN-89	30-JUN-89
NORTH COORDINATE:	481611.99	481611.99	479800.96	479800.96	480702.37
EAST COORDINATE:	1381150.58	1381150.58	1379914.91	1379914.91	1380398.11
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	8.00 % MOISTURE		NV	18.00 %		NV	23.00 %		NV	4.00 % MOISTURE		NV
% SOLIDS	88.90 % SOLIDS		NV	91.80 % SOLIDS		NV	81.70 % SOLIDS		NV	76.70 % SOLIDS		NV	95.70 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	047032	055906	055919	055932	055945
TASK:	20.03.04	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1433	1456	1459	1462	1465
DEPTH:	-	3.75-3.75	5-5	4-4	3.5-3.8
DATE COLLECTED:	29-JUL-92	05-NOV-89	06-NOV-89	07-NOV-89	08-NOV-89
NORTH COORDINATE:	477991.53	477940	477905	477867	477709
EAST COORDINATE:	1379116.16	1379479	1379631	1379784	1379566
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				12.00 %		NV	8.00 % MOISTURE		NV	14.00 %		NV	17.00 %		NV
% SOLIDS				88.30 % SOLIDS		NV	92.00 % SOLIDS		NV	85.40 % SOLIDS		NV	82.30 % SOLIDS		NV
PH	8.10 SU		J												

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	055959	055972	055988	056022	056039
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1468	1471	1474	1481	1482
DEPTH:	3.75-4	5-5.25	9.9-10	15-15	14-14
DATE COLLECTED:	14-NOV-89	16-NOV-89	17-NOV-89	20-NOV-89	05-DEC-89
NORTH COORDINATE:	477633	477395	478370.67	480852.84	480432.95
EAST COORDINATE:	1379700	1379639	1379255.59	1378343.75	1379047.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	14.00 %		NV	15.00 %		NV	8.00 % MOISTURE		NV	17.00 %		NV
% SOLIDS	84.70 % SOLIDS		NV	85.90 % SOLIDS		NV	84.60 % SOLIDS		NV	91.90 % SOLIDS		NV	82.80 % SOLIDS		NV

000550

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056055	000809	051160	051161	054059
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1485	1502	1508	1509	1510
DEPTH:	15-15	-	2-2.5	2-2.5	2-2.5
DATE COLLECTED:	07-DEC-89	10-JUL-90	04-FEB-90	04-FEB-90	04-FEB-90
NORTH COORDINATE:	481920.13	480463.56	482565.57	482519.65	482519.62
EAST COORDINATE:	1379767.41	1380433.65	1380840.06	1380840.66	1380877.9
QA TYPE:	NORMAL	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV				20.00 %		NV	15.00 %		NV	20.00 %		NV
% SOLIDS	86.00 % SOLIDS		NV				80200.00 UG/KG		NV	85.40 % SOLIDS		NV	80.00 % SOLIDS		NV
IGNITABILITY				45.00 DEGREES C		-									
PH				8.02 SU		-									

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	054439	051679	053519	053782	052259
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1511	1512	1513	1514	1515
DEPTH:	2-2.5	2-2.5	2-2.5	2-2.5	2-2.5
DATE COLLECTED:	05-FEB-90	06-FEB-90	06-FEB-90	06-FEB-90	07-FEB-90
NORTH COORDINATE:	482563.57	482541.56	482549.47	482540.76	482532.1
EAST COORDINATE:	1380881.74	1380926.1	1380951.4	1380973.96	1380949.31
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV	23.00 %		NV	19.00 %		NV	20.00 %		NV	22.00 %		NV
% SOLIDS	80.30 % SOLIDS		NV	76.80 % SOLIDS		NV	80.20 % SOLIDS		NV	79.90 % SOLIDS		NV	78.00 % SOLIDS		NV

000552

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056337	056102	056104	056106	056109
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1563	1565	1565	1565	1565
DEPTH:	1-1.5	2-2.5	3-3.5	4-4.5	5.5-6
DATE COLLECTED:	29-NOV-90	14-AUG-90	14-AUG-90	14-AUG-90	14-AUG-90
NORTH COORDINATE:	480839.67	480814.02	480814.02	480814.02	480814.02
EAST COORDINATE:	1381720.59	1381680.72	1381680.72	1381680.72	1381680.72
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	12.00 %		NV	11.00 %		NV	12.00 %		NV	10.00 %		NV
% SOLIDS	89.30 % SOLIDS		NV												

000553

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056119	056129	056141	056143	056145
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1565	1565	1568	1568	1568
DEPTH:	10.5-11	15.5-16	1.5-2	2.5-3	3.5-4
DATE COLLECTED:	14-AUG-90	14-AUG-90	15-AUG-90	15-AUG-90	15-AUG-90
NORTH COORDINATE:	480814.02	480814.02	480784.16	480784.16	480784.16
EAST COORDINATE:	1381680.72	1381680.72	1381679.81	1381679.81	1381679.81
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	11.00 %		NV	13.00 %		NV	13.00 %		NV	11.00 %		NV

000554

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056149	056159	056169	056179	056181
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1568	1568	1568	1569	1569
DEPTH:	5.5-6	10.5-11	15.5-16	1.5-2	2.5-3
DATE COLLECTED:	15-AUG-90	15-AUG-90	15-AUG-90	21-AUG-90	21-AUG-90
NORTH COORDINATE:	480784.16	480784.16	480784.16	480785.94	480785.94
EAST COORDINATE:	1381679.81	1381679.81	1381679.81	1381721.18	1381721.18
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	11.00 %		NV	12.00 %		NV	24.00 %		NV	11.00 %		NV

000555

8704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056183			056187			056197			056207			056219		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1569			1569			1569			1569			1570		
DEPTH:	3.5-4			5.5-6			10.5-11			15.5-16			1.5-2		
DATE COLLECTED:	21-AUG-90			21-AUG-90			22-AUG-90			22-AUG-90			23-AUG-90		
NORTH COORDINATE:	480785.94			480785.94			480785.94			480785.94			480782.58		
EAST COORDINATE:	1381721.18			1381721.18			1381721.18			1381721.18			1381731.98		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	15.00 %		NV	13.00 %		NV	11.00 %		NV	12.00 %		NV

000556

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056221	056223	056227	056237	056247
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1570	1570	1570	1570	1570
DEPTH:	2.5-3	3.5-4	5.5-6	10.5-11	15.5-16
DATE COLLECTED:	23-AUG-90	23-AUG-90	23-AUG-90	23-AUG-90	23-AUG-90
NORTH COORDINATE:	480782.58	480782.58	480782.58	480782.58	480782.58
EAST COORDINATE:	1381731.98	1381731.98	1381731.98	1381731.98	1381731.98
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	11.00 %		NV	9.00 % MOISTURE		NV	12.00 %		NV	14.00 %		NV

000557

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056878	056881	056885	056905	056908
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1571	1571	1571	1573	1573
DEPTH:	.5-1	2-2.5	4-4.5	.5-1	2-2.5
DATE COLLECTED:	18-OCT-90	23-OCT-90	23-OCT-90	31-OCT-90	01-NOV-90
NORTH COORDINATE:	481677.51	481677.51	481677.51	481591.63	481591.63
EAST COORDINATE:	1380995.47	1380995.47	1380995.47	1380986.56	1380986.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV	13.00 %		NV	10.00 %		NV	19.00 %		NV	20.00 %		NV
% SOLIDS	79.60 % SOLIDS		NV	86.50 % SOLIDS		NV	89.50 % SOLIDS		NV	80.60 % SOLIDS		NV	79.70 % SOLIDS		NV

000558

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056971	056974	056977	056887	056890
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1574	1574	1574	1575	1575
DEPTH:	.5-1	2-2.5	3.5-4	.5-1	2-2.5
DATE COLLECTED:	04-NOV-90	04-NOV-90	04-NOV-90	23-OCT-90	24-OCT-90
NORTH COORDINATE:	481665.79	481665.79	481665.79	481611.48	481611.48
EAST COORDINATE:	1381163.33	1381163.33	1381163.33	1381201.6	1381201.6
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	18.00 %		NV	20.00 %		NV	20.00 %		NV	19.00 %		NV
% SOLIDS	87.20 % SOLIDS		NV	81.70 % SOLIDS		NV	80.00 % SOLIDS		NV	86.70 % SOLIDS		NV	80.20 % SOLIDS		NV

000559

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056894	056982	056985	056989	056932
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1575	1576	1576	1576	1577
DEPTH:	4-4.5	.5-1	2-2.5	4-4.5	.5-1
DATE COLLECTED:	24-OCT-90	04-NOV-90	04-NOV-90	04-NOV-90	06-NOV-90
NORTH COORDINATE:	481611.48	481558.31	481558.31	481558.31	481607.16
EAST COORDINATE:	1381201.6	1381149.98	1381149.98	1381149.98	1381052.08
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	11.00 %		NV	19.00 %		NV	12.00 %		NV	18.00 %		NV
% SOLIDS	86.70 % SOLIDS		NV	88.80 % SOLIDS		NV	80.20 % SOLIDS		NV	87.60 % SOLIDS		NV	81.40 % SOLIDS		NV

000560

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056935	056939	056941	056944	056948
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1577	1577	1578	1578	1578
DEPTH:	2-2.5	4-4.5	.5-1	2-2.5	4-4.5
DATE COLLECTED:	06-NOV-90	06-NOV-90	06-NOV-90	06-NOV-90	06-NOV-90
NORTH COORDINATE:	481607.16	481607.16	481676.05	481676.05	481676.05
EAST COORDINATE:	1381052.08	1381052.08	1381044.93	1381044.93	1381044.93
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	DL-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV	25.00 %		NV	13.00 %		NV	21.00 %		NV	18.00 %		NV
% SOLIDS	79.20 % SOLIDS		NV	74.20 % SOLIDS		NV	86.20 % SOLIDS		NV	78.40 % SOLIDS		NV	81.50 % SOLIDS		NV

000561

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056960	056963	056967	056484	056487
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1580	1580	1580	1581	1581
DEPTH:	.5-1	2-2.5	4-4.5	.5-1	2-2.5
DATE COLLECTED:	07-NOV-90	07-NOV-90	07-NOV-90	27-SEP-90	02-OCT-90
NORTH COORDINATE:	481676	481676	481676	481109.84	481109.84
EAST COORDINATE:	1381101.87	1381101.87	1381101.87	1380971.81	1380971.81
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	DL-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	1.00 % MOISTURE		NV	19.00 %		NV	13.00 %		NV	14.00 %		NV
% SOLIDS	85.60 % SOLIDS		NV	93.00 % SOLIDS		NV	84.40 % SOLIDS		NV	86.80 % SOLIDS		NV	85.80 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056491	056502	056506	056509	056513
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1581	1581	1582	1582	1582
DEPTH:	4-4.5	9.5-10	.5-1	2-2.5	4-4.5
DATE COLLECTED:	02-OCT-90	02-OCT-90	03-OCT-90	03-OCT-90	03-OCT-90
NORTH COORDINATE:	481109.84	481109.84	481107.89	481107.89	481107.89
EAST COORDINATE:	1380971.81	1380971.81	1381010.09	1381010.09	1381010.09
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	11.00 %		NV	7.00 % MOISTURE		NV	4.00 % MOISTURE		NV	11.00 %		NV
% SOLIDS	87.90 % SOLIDS		NV	88.60 % SOLIDS		NV	92.10 % SOLIDS		NV	95.80 % SOLIDS		NV	89.00 % SOLIDS		NV

000563

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056524	056551	056554	056558	056569
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1582	1583	1583	1583	1583
DEPTH:	9.5-10	.5-1	2-2.5	4-4.5	9.5-10
DATE COLLECTED:	03-OCT-90	27-SEP-90	02-OCT-90	02-OCT-90	02-OCT-90
NORTH COORDINATE:	481107.89	481108.71	481108.71	481108.71	481108.71
EAST COORDINATE:	1381010.09	1381049.62	1381049.62	1381049.62	1381049.62
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	R-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	8.00 % MOISTURE		NV	5.00 % MOISTURE		NV	6.00 % MOISTURE		NV	13.00 %		NV
% SOLIDS	87.50 % SOLIDS		NV	92.30 % SOLIDS		NV	94.60 % SOLIDS		NV	94.00 % SOLIDS		NV	87.30 % SOLIDS		NV

000564

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056573	056576	056580	056595	056598
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1584	1584	1584	1585	1585
DEPTH:	.5-1	2-2.5	4-4.5	.5-1	2-2.5
DATE COLLECTED:	24-SEP-90	24-SEP-90	24-SEP-90	25-SEP-90	25-SEP-90
NORTH COORDINATE:	481106.15	481106.15	481106.15	481104.43	481104.43
EAST COORDINATE:	1381080.47	1381080.47	1381080.47	1381113.55	1381113.55
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	DL-NA	NONE-NA	NONE-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV	8.00 % MOISTURE		NV	12.00 %		NV	16.00 %		NV	13.00 %		NV
% SOLIDS	78.40 % SOLIDS		NV	91.40 % SOLIDS		NV	87.80 % SOLIDS		NV	83.80 % SOLIDS		NV	86.90 % SOLIDS		NV

000585

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056602	056613	056617	056620	056624
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1585	1585	1586	1586	1586
DEPTH:	4-4.5	9.5-10	.5-1	2-2.5	4-4.5
DATE COLLECTED:	26-SEP-90	26-SEP-90	25-SEP-90	25-SEP-90	26-SEP-90
NORTH COORDINATE:	481104.43	481104.43	481105.28	481105.28	481105.28
EAST COORDINATE:	1381113.55	1381113.55	1381147.01	1381147.01	1381147.01
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	R-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	10.00 %		NV	18.00 %		NV	12.00 %		NV	12.00 %		NV
% SOLIDS	88.30 % SOLIDS		NV	90.10 % SOLIDS		NV	81.80 % SOLIDS		NV	87.90 % SOLIDS		NV	87.40 % SOLIDS		NV

000566

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056635	056417	056425	056436	056462
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1586	1588	1588	1588	1589
DEPTH:	9.5-10	0-.5	4-4.5	9.5-10	.5-1
DATE COLLECTED:	26-SEP-90	19-SEP-90	20-SEP-90	20-SEP-90	21-SEP-90
NORTH COORDINATE:	481105.28	481059.76	481059.76	481059.76	481057.96
EAST COORDINATE:	1381147.01	1381009.31	1381009.31	1381009.31	1381042.67
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	8.00 % MOISTURE		NV	12.00 %		NV	8.00 % MOISTURE		NV	13.00 %		NV
% SOLIDS	89.60 % SOLIDS		NV	91.80 % SOLIDS		NV	87.90 % SOLIDS		NV	91.30 % SOLIDS		NV	86.80 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056465	056440	056443	056447	056458
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1589	1590	1590	1590	1590
DEPTH:	2-2.5	.5-1	2-2.5	4-4.5	9.5-10
DATE COLLECTED:	21-SEP-90	20-SEP-90	20-SEP-90	20-SEP-90	20-SEP-90
NORTH COORDINATE:	481057.96	481056.64	481056.64	481056.64	481056.64
EAST COORDINATE:	1381042.67	1381075.87	1381075.87	1381075.87	1381075.87
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	8.00 % MOISTURE		NV	11.00 %		NV	10.00 %		NV	7.00 % MOISTURE		NV
% SOLIDS	89.90 % SOLIDS		NV	91.70 % SOLIDS		NV	88.80 % SOLIDS		NV	89.10 % SOLIDS		NV	92.10 % SOLIDS		NV

000568

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056529	056661	056664	056668	056683
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1591	1592	1592	1592	1593
DEPTH:	.5-1	.5-1	2-2.5	4-4.5	.5-1
DATE COLLECTED:	21-SEP-90	24-SEP-90	24-SEP-90	24-SEP-90	01-NOV-90
NORTH COORDINATE:	481080.76	481078.54	481078.54	481078.54	481005.94
EAST COORDINATE:	1381111.82	1381139.76	1381139.76	1381139.76	1380975.47
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	9.00 % MOISTURE		NV	11.00 %		NV	11.00 %		NV	9.00 % MOISTURE		NV
% SOLIDS	90.00 % SOLIDS		NV	90.80 % SOLIDS		NV	88.30 % SOLIDS		NV	88.10 % SOLIDS		NV	90.80 % SOLIDS		NV

000569

5204

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056686	056690	056701	056705	056708
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1593	1593	1593	1594	1594
DEPTH:	2-2.5	4-4.5	9.5-10	.5-1	2-2.5
DATE COLLECTED:	01-NOV-90	01-NOV-90	01-NOV-90	07-OCT-90	07-OCT-90
NORTH COORDINATE:	481005.94	481005.94	481005.94	481003.19	481003.19
EAST COORDINATE:	1380975.47	1380975.47	1380975.47	1381008.93	1381008.93
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	DL-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	9.00 % MOISTURE		NV	10.00 %		NV	13.00 %		NV	10.00 %		NV
% SOLIDS	88.20 % SOLIDS		NV	90.70 % SOLIDS		NV	89.40 % SOLIDS		NV	86.60 % SOLIDS		NV	89.60 % SOLIDS		NV

000570

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056712	056723	056730	056745	056815
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1594	1594	1595	1595	1599
DEPTH:	4-4.5	9.5-10	2-2.5	9.5-10	1.5-2
DATE COLLECTED:	07-OCT-90	11-OCT-90	07-OCT-90	11-OCT-90	18-OCT-90
NORTH COORDINATE:	481003.19	481003.19	481005.09	481005.09	480970.6
EAST COORDINATE:	1381008.93	1381008.93	1381041.7	1381041.7	1381033.7
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	DL-NA	DL-NA	DL-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	4.00 % MOISTURE		NV	11.00 %		NV	13.00 %		NV	14.00 %		NV	4.00 % MOISTURE		NV
% SOLIDS	95.20 % SOLIDS		NV	88.70 % SOLIDS		NV	86.80 % SOLIDS		NV	86.30 % SOLIDS		NV	95.60 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056820	056823	056830	056837	056840
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1599	1599	1599	1600	1600
DEPTH:	4-4.5	5.5-6	9-9.5	4.5-5	6-6.5
DATE COLLECTED:	23-OCT-90	23-OCT-90	23-OCT-90	24-OCT-90	24-OCT-90
NORTH COORDINATE:	480970.6	480970.6	480970.6	480968.57	480968.57
EAST COORDINATE:	1381033.7	1381033.7	1381033.7	1381080.16	1381080.16
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	11.00 %		NV	10.00 %		NV	11.00 %		NV	10.00 %		NV
% SOLIDS	88.60 % SOLIDS		NV	88.60 % SOLIDS		NV	89.50 % SOLIDS		NV	88.90 % SOLIDS		NV	89.60 % SOLIDS		NV

000572

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	056843	056847	052781	052784	052788
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1600	1600	1601	1601	1601
DEPTH:	7.5-8	9.5-10	.5-1	2-2.5	4-4.5
DATE COLLECTED:	25-OCT-90	25-OCT-90	13-SEP-90	13-SEP-90	13-SEP-90
NORTH COORDINATE:	480968.57	480968.57	480774.78	480774.78	480774.78
EAST COORDINATE:	1381080.16	1381080.16	1381358.96	1381358.96	1381358.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	11.00 %		NV	7.00 % MOISTURE		NV	13.00 %		NV	13.00 %		NV
% SOLIDS	86.60 % SOLIDS		NV	88.20 % SOLIDS		NV	93.00 % SOLIDS		NV	87.10 % SOLIDS		NV	87.30 % SOLIDS		NV

000573

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	018176	052775	052779	018170	018174
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1602	1602	1602	1603	1603
DEPTH:	.5-1	2-2.5	4-4.5	2-2.5	4-4.5
DATE COLLECTED:	11-SEP-90	11-SEP-90	11-SEP-90	10-SEP-90	10-SEP-90
NORTH COORDINATE:	480768.14	480768.14	480768.14	480777.57	480777.57
EAST COORDINATE:	1381301.1	1381301.1	1381301.1	1381249.59	1381249.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	R-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	6.00 % MOISTURE		NV	10.00 %		NV	10.00 %		NV	12.00 %		NV	12.00 %		NV
% SOLIDS	93.20 % SOLIDS		NV	89.20 % SOLIDS		NV	90.00 % SOLIDS		NV	87.70 % SOLIDS		NV	88.20 % SOLIDS		NV

000574

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	018158	018161	018165	052790	052793
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1604	1604	1604	1605	1605
DEPTH:	.5-1	2-2.5	4-4.5	.5-1	2-2.5
DATE COLLECTED:	09-SEP-90	09-SEP-90	09-SEP-90	18-SEP-90	18-SEP-90
NORTH COORDINATE:	480771.47	480771.47	480771.47	480767.45	480767.45
EAST COORDINATE:	1381199.06	1381199.06	1381199.06	1381393.37	1381393.37
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	12.00 %		NV	11.00 %		NV	10.00 %		NV	15.00 %		NV
% SOLIDS	89.60 % SOLIDS		NV	88.20 % SOLIDS		NV	89.40 % SOLIDS		NV	89.20 % SOLIDS		NV	84.90 % SOLIDS		NV

000575

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	018203	057232	057233	057276	057277
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1605	1607	1607	1608	1608
DEPTH:	4-4.5	4-4.5	4.5-5	4-4.5	4.5-5
DATE COLLECTED:	18-SEP-90	02-FEB-91	02-FEB-91	25-FEB-91	25-FEB-91
NORTH COORDINATE:	480767.45	480303.77	480303.77	480249.42	480249.42
EAST COORDINATE:	1381393.37	1381636.76	1381636.76	1381636.25	1381636.25
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	26.00 %		NV	24.00 %		NV	30.00 %		NV	30.00 %		NV
% SOLIDS	89.50 % SOLIDS		NV	74.30 % SOLIDS		NV	77.50 % SOLIDS		NV	70.00 % SOLIDS		NV	69.00 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	057320	057321	057366	057103	057104
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1609	1609	1610	1611	1611
DEPTH:	4-4.5	4.5-5	4.5-5	4-4.5	4.5-5
DATE COLLECTED:	22-JAN-91	22-JAN-91	19-JAN-91	12-DEC-90	12-DEC-90
NORTH COORDINATE:	480313.17	480313.17	480280.2	480423.16	480423.16
EAST COORDINATE:	1381676.09	1381676.09	1381673.17	1381733.29	1381733.29
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	R-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	4.00 % MOISTURE		NV	0.00 % MOISTURE		NV	2.00 % MOISTURE		NV	25.00 %		NV	25.00 %		NV
% SOLIDS	95.00 % SOLIDS		NV	100.00 % SOLIDS		NV	97.00 % SOLIDS		NV						

000577

5204

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	064030	064034	064039	064043	064003
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1616	1616	1616	1616	1617
DEPTH:	83-85.2	89.2-90.5	103-104.	106.-108	61-62.2
DATE COLLECTED:	26-JUN-91	26-JUN-91	28-JUN-91	28-JUN-91	04-MAY-91
NORTH COORDINATE:	480469.31	480469.31	480469.31	480469.31	480309.37
EAST COORDINATE:	1378315.91	1378315.91	1378315.91	1378315.91	1378393.37
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	10.90 %		NV	14.00 %		NV	16.00 %		NV	9.60 %		NV
% SOLIDS	88.00 % SOLIDS		NV				86.40 % SOLIDS		NV						
LIQUID LIMIT				29.00 NONE		NV				23.00 NONE		NV	15.00 NONE		NV
PLASTICITY INDEX				15.00 NONE		NV				10.00 NONE		NV	3.00 NONE		NV
SPECIFIC GRAVITY				2.77 NONE		NV				2.75 NONE		NV	2.70 NONE		NV
GRAIN SIZE DIAMETER, 0.0012 MM													4.50 % FINER		NV
GRAIN SIZE DIAMETER, 0.0027 MM										20.90 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0028 MM				14.20 % FINER		NV									
GRAIN SIZE DIAMETER, 0.0030 MM													6.20 % FINER		NV
GRAIN SIZE DIAMETER, 0.0038 MM										25.60 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0039 MM				17.10 % FINER		NV									
GRAIN SIZE DIAMETER, 0.0113 MM													12.90 % FINER		NV
GRAIN SIZE DIAMETER, 0.075 MM				31.30 % FINER		NV				70.50 % FINER		NV	26.60 % FINER		NV
GRAIN SIZE DIAMETER, 0.106 MM				33.00 % FINER		NV				72.70 % FINER		NV	28.50 % FINER		NV
GRAIN SIZE DIAMETER, 0.25 MM				39.30 % FINER		NV				78.80 % FINER		NV	41.10 % FINER		NV
GRAIN SIZE DIAMETER, 0.425 MM				45.70 % FINER		NV				82.20 % FINER		NV	48.70 % FINER		NV
GRAIN SIZE DIAMETER, 0.85 MM				55.90 % FINER		NV				85.80 % FINER		NV	58.30 % FINER		NV
GRAIN SIZE DIAMETER, 19 MM				100.00 % FINER		NV				100.00 % FINER		NV	92.10 % FINER		NV
GRAIN SIZE DIAMETER, 2 MM				70.70 % FINER		NV				90.00 % FINER		NV	70.00 % FINER		NV
GRAIN SIZE DIAMETER, 37.5 MM				100.00 % FINER		NV				100.00 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 4.75 MM				85.70 % FINER		NV				94.80 % FINER		NV	79.30 % FINER		NV
GRAIN SIZE DIAMETER, 75 MM				100.00 % FINER		NV				100.00 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 9.5 MM				96.50 % FINER		NV				98.10 % FINER		NV	85.90 % FINER		NV

000578

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	064102	064107	064112	064117	064123
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1618	1618	1618	1618	1618
DEPTH:	47.5-48.5	51.2-52.5	67.5-70	71.2-72.5	87.5-90
DATE COLLECTED:	29-JUL-91	30-JUL-91	30-JUL-91	31-JUL-91	01-AUG-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480307.07	480307.07
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378575.33	1378575.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	23.50 %		NV	22.00 %		NV	20.20 %		NV	17.00 %		NV
% SOLIDS	82.60 % SOLIDS		NV				77.30 % SOLIDS		NV				82.50 % SOLIDS		NV
LIQUID LIMIT				42.00 NONE		-				27.00 NONE		-			
PLASTICITY INDEX				24.00 NONE		-				11.00 NONE		-			
SPECIFIC GRAVITY				2.78 NONE		-				2.80 NONE		-			
GRAIN SIZE DIAMETER, 0.0027 MM										23.30 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0037 MM										27.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0051 MM										30.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0419 MM										75.00 % FINER		NV			
GRAIN SIZE DIAMETER, 0.075 MM				94.90 % FINER		NV				96.20 % FINER		NV			
GRAIN SIZE DIAMETER, 0.106 MM				96.50 % FINER		NV				97.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.25 MM				99.30 % FINER		NV				98.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.425 MM				99.70 % FINER		NV				98.80 % FINER		NV			
GRAIN SIZE DIAMETER, 0.85 MM				99.90 % FINER		NV				99.50 % FINER		NV			
GRAIN SIZE DIAMETER, 19 MM				100.00 % FINER		NV				100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 2 MM				100.00 % FINER		NV				99.90 % FINER		NV			
GRAIN SIZE DIAMETER, 37.5 MM				100.00 % FINER		NV				100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 4.75 MM				100.00 % FINER		NV				100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 75 MM				100.00 % FINER		NV				100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 9.5 MM				100.00 % FINER		NV				100.00 % FINER		NV			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	064127	064134	064138	064146	064150
TASK:	40.03.01	40.03.01	40.03.01	40.03.01	40.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1618	1618	1618	1618	1618
DEPTH:	91.2-92.5	105-107.	108.-110	125-127.	128.-130
DATE COLLECTED:	01-AUG-91	02-AUG-91	02-AUG-91	03-AUG-91	03-AUG-91
NORTH COORDINATE:	480307.07	480307.07	480307.07	480307.07	480307.07
EAST COORDINATE:	1378575.33	1378575.33	1378575.33	1378575.33	1378575.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.30 %		NV	18.00 %		NV	21.80 %		NV	19.00 %		NV	22.80 %		NV
% SOLIDS				82.10 % SOLIDS		NV				80.70 % SOLIDS		NV			
LIQUID LIMIT	24.00 NONE		-				26.00 NONE		-				25.00 NONE		NV
PLASTICITY INDEX	10.00 NONE		-				11.00 NONE		-				11.00 NONE		NV
SPECIFIC GRAVITY	2.80 NONE		-				2.77 NONE		-				2.76 NONE		NV
GRAIN SIZE DIAMETER, 0.00272 MM	40 % FINER		NV										24.80 % FINER		NV
GRAIN SIZE DIAMETER, 0.0037 MM													29.90 % FINER		NV
GRAIN SIZE DIAMETER, 0.00382 MM	60 % FINER		NV												
GRAIN SIZE DIAMETER, 0.00513 MM	90 % FINER		NV										34.00 % FINER		NV
GRAIN SIZE DIAMETER, 0.0213 MM							73.80 % FINER		NV						
GRAIN SIZE DIAMETER, 0.0301 MM							77.80 % FINER		NV				72.20 % FINER		NV
GRAIN SIZE DIAMETER, 0.075 MM	97.40 % FINER		NV				99.60 % FINER		UNV				97.90 % FINER		NV
GRAIN SIZE DIAMETER, 0.106 MM	98.30 % FINER		NV				99.80 % FINER		UNV				98.80 % FINER		NV
GRAIN SIZE DIAMETER, 0.25 MM	99.40 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 0.425 MM	99.70 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 0.85 MM	99.90 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 19 MM	100.00 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 2 MM	100.00 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 37.5 MM	100.00 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 4.75 MM	100.00 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 75 MM	100.00 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV
GRAIN SIZE DIAMETER, 9.5 MM	100.00 % FINER		NV				100.00 % FINER		UNV				100.00 % FINER		NV

000580

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	064067	064079	064085	099461	099462
TASK:	40.03.01	40.03.01	40.03.01	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1619	1619	1619	1620	1620
DEPTH:	57.5-60	81.2-82.5	103.-105	3-4	4-5
DATE COLLECTED:	20-JUL-91	23-JUL-91	25-JUL-91	15-MAY-91	15-MAY-91
NORTH COORDINATE:	480412.98	480412.98	480412.98	480402.83	480402.83
EAST COORDINATE:	1378593.22	1378593.22	1378593.22	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	28.30 %		NV	12.50 %		NV	22.40 %		NV	17.00 %		NV
% SOLIDS	83.70 % SOLIDS		NV												
LIQUID LIMIT				22.00 NONE		-	17.00 NONE		-	32.00 NONE		NV			
PLASTICITY INDEX				7.00 NONE		-	5.00 NONE		-	14.00 NONE		NV			
SPECIFIC GRAVITY				2.85 NONE		-	2.75 NONE		-	2.70 NONE		NV			
GRAIN SIZE DIAMETER, 0.0012 MM							7.20 % FINER		NV	15.70 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0028 MM				15.70 % FINER		NV				22.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0029 MM							10.30 % FINER		NV						
GRAIN SIZE DIAMETER, 0.0039 MM				17.70 % FINER		NV				26.80 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0058 MM							14.40 % FINER		NV						
GRAIN SIZE DIAMETER, 0.0083 MM							18.50 % FINER		NV						
GRAIN SIZE DIAMETER, 0.0301 MM							30.80 % FINER		NV						
GRAIN SIZE DIAMETER, 0.0419 MM							33.90 % FINER		NV						
GRAIN SIZE DIAMETER, 0.075 MM				91.90 % FINER		NV	41.80 % FINER		NV	81.80 % FINER		NV			
GRAIN SIZE DIAMETER, 0.106 MM				96.30 % FINER		NV	45.80 % FINER		NV	84.10 % FINER		NV			
GRAIN SIZE DIAMETER, 0.25 MM				99.80 % FINER		NV	58.80 % FINER		NV	90.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.425 MM				99.90 % FINER		NV	66.10 % FINER		NV	93.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.85 MM				100.00 % FINER		NV	73.60 % FINER		NV	95.50 % FINER		NV			
GRAIN SIZE DIAMETER, 19 MM				100.00 % FINER		NV	100.00 % FINER		NV	100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 2 MM				100.00 % FINER		NV	82.40 % FINER		NV	97.60 % FINER		NV			
GRAIN SIZE DIAMETER, 37.5 MM				100.00 % FINER		NV	100.00 % FINER		NV	100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 4.75 MM				100.00 % FINER		NV	90.60 % FINER		NV	99.30 % FINER		NV			
GRAIN SIZE DIAMETER, 75 MM				100.00 % FINER		NV	100.00 % FINER		NV	100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 9.5 MM				100.00 % FINER		NV	99.50 % FINER		NV	99.80 % FINER		NV			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099468	099469	099483	099484	099489
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1620	1620	1620	1620	1620
DEPTH:	-5	-5	15-16	16-17	-16
DATE COLLECTED:	15-MAY-91	15-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480402.83
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378440.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV				18.00 %		NV	22.30 %		NV	18.00 %		NV
% SOLIDS				82.40 % SOLIDS		NV									
LIQUID LIMIT										29.00 NONE		NV			
PLASTICITY INDEX										15.00 NONE		NV			
SPECIFIC GRAVITY										2.73 NONE		NV			
GRAIN SIZE DIAMETER, 0.0012 MM										15.80 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0028 MM										20.00 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0039 MM										23.10 % FINER		NV			
GRAIN SIZE DIAMETER, 0.075 MM										64.40 % FINER		NV			
GRAIN SIZE DIAMETER, 0.106 MM										66.80 % FINER		NV			
GRAIN SIZE DIAMETER, 0.25 MM										74.90 % FINER		NV			
GRAIN SIZE DIAMETER, 0.425 MM										80.70 % FINER		NV			
GRAIN SIZE DIAMETER, 0.85 MM										86.70 % FINER		NV			
GRAIN SIZE DIAMETER, 19 MM										100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 2 MM										93.30 % FINER		NV			
GRAIN SIZE DIAMETER, 37.5 MM										100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 4.75 MM										98.20 % FINER		NV			
GRAIN SIZE DIAMETER, 75 MM										100.00 % FINER		NV			
GRAIN SIZE DIAMETER, 9.5 MM										100.00 % FINER		NV			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099490	099501	099514	099517	099530
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1620	1620	1620	1620	1621
DEPTH:	-16	22-23	-21	-21	2-3
DATE COLLECTED:	16-MAY-91	17-MAY-91	17-MAY-91	17-MAY-91	21-MAY-91
NORTH COORDINATE:	480402.83	480402.83	480402.83	480402.83	480517.8
EAST COORDINATE:	1378440.71	1378440.71	1378440.71	1378440.71	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				22.50 %		NV				18.00 %		NV	24.10 %		NV
% SOLIDS	81.70 % SOLIDS		NV				81.30 % SOLIDS		NV						
LIQUID LIMIT				37.00 NONE		NV							31.00 NONE		NV
PLASTICITY INDEX				19.00 NONE		NV							12.00 NONE		NV
SPECIFIC GRAVITY				2.68 NONE		NV							2.69 NONE		NV
GRAIN SIZE DIAMETER, 0.0012 MM				21.50 % FINER		NV							13.00 % FINER		NV
GRAIN SIZE DIAMETER, 0.0027 MM				28.30 % FINER		NV									
GRAIN SIZE DIAMETER, 0.0028 MM													19.40 % FINER		NV
GRAIN SIZE DIAMETER, 0.0038 MM				32.80 % FINER		NV									
GRAIN SIZE DIAMETER, 0.0039 MM													23.80 % FINER		NV
GRAIN SIZE DIAMETER, 0.0052 MM				37.40 % FINER		NV									
GRAIN SIZE DIAMETER, 0.075 MM				86.60 % FINER		NV							78.50 % FINER		NV
GRAIN SIZE DIAMETER, 0.106 MM				88.40 % FINER		NV							80.60 % FINER		NV
GRAIN SIZE DIAMETER, 0.25 MM				93.20 % FINER		NV							86.40 % FINER		NV
GRAIN SIZE DIAMETER, 0.425 MM				95.50 % FINER		NV							89.60 % FINER		NV
GRAIN SIZE DIAMETER, 0.85 MM				97.20 % FINER		NV							92.60 % FINER		NV
GRAIN SIZE DIAMETER, 19 MM				100.00 % FINER		NV							100.00 % FINER		NV
GRAIN SIZE DIAMETER, 2 MM				98.20 % FINER		NV							95.60 % FINER		NV
GRAIN SIZE DIAMETER, 37.5 MM				100.00 % FINER		NV							100.00 % FINER		NV
GRAIN SIZE DIAMETER, 4.75 MM				99.20 % FINER		NV							98.80 % FINER		NV
GRAIN SIZE DIAMETER, 75 MM				100.00 % FINER		NV							100.00 % FINER		NV
GRAIN SIZE DIAMETER, 9.5 MM				99.80 % FINER		NV							100.00 % FINER		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099533	099541	099542	099558	099559
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	5-6	-6	-6	-6	-6
DATE COLLECTED:	21-MAY-91	21-MAY-91	21-MAY-91	22-MAY-91	22-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	17.00 %		NV				19.00 %		NV			
% SOLIDS							82.10 % SOLIDS		NV				88.80 % SOLIDS		NV

000584

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099579	099580	099548	099550	099572
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1621	1621	1621	1621
DEPTH:	-6	-6	13-14	15-16	25-26
DATE COLLECTED:	23-MAY-91	23-MAY-91	22-MAY-91	22-MAY-91	23-MAY-91
NORTH COORDINATE:	480517.8	480517.8	480517.8	480517.8	480517.8
EAST COORDINATE:	1378442.96	1378442.96	1378442.96	1378442.96	1378442.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV				18.00 %		NV	16.00 %		NV	20.00 %		NV
% SOLIDS				80.10 % SOLIDS		NV									
LIQUID LIMIT							23.00 NONE		NV						
PLASTICITY INDEX							9.00 NONE		NV						
SPECIFIC GRAVITY							2.74 NONE		NV						
GRAIN SIZE DIAMETER, 0.0012 MM							14.60 % FINER		NV						
GRAIN SIZE DIAMETER, 0.0028 MM							17.10 % FINER		NV						
GRAIN SIZE DIAMETER, 0.0058 MM							24.40 % FINER		NV						
GRAIN SIZE DIAMETER, 0.075 MM							72.20 % FINER		NV						
GRAIN SIZE DIAMETER, 0.106 MM							75.30 % FINER		NV						
GRAIN SIZE DIAMETER, 0.25 MM							83.10 % FINER		NV						
GRAIN SIZE DIAMETER, 0.425 MM							86.80 % FINER		NV						
GRAIN SIZE DIAMETER, 0.85 MM							90.40 % FINER		NV						
GRAIN SIZE DIAMETER, 19 MM							100.00 % FINER		NV						
GRAIN SIZE DIAMETER, 2 MM							95.20 % FINER		NV						
GRAIN SIZE DIAMETER, 37.5 MM							100.00 % FINER		NV						
GRAIN SIZE DIAMETER, 4.75 MM							97.90 % FINER		NV						
GRAIN SIZE DIAMETER, 75 MM							100.00 % FINER		NV						
GRAIN SIZE DIAMETER, 9.5 MM							99.30 % FINER		NV						

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099573	099588	099590	099593	099595
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1621	1622	1622	1622	1622
DEPTH:	26-27	0-1	2-3	0-10	0-10
DATE COLLECTED:	22-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91	29-MAY-91
NORTH COORDINATE:	480517.8	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378442.96	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV	17.00 %		NV	24.80 %		NV	17.00 %		NV			
% SOLIDS													82.60 % SOLIDS		NV
LIQUID LIMIT	34.00 NONE		NV				33.00 NONE		NV						
PLASTICITY INDEX	17.00 NONE		NV				16.00 NONE		NV						
SPECIFIC GRAVITY	2.75 NONE		NV				2.69 NONE		NV						
GRAIN SIZE DIAMETER, 0.0012 MM							17.60 % FINER		NV						
GRAIN SIZE DIAMETER, 0.00272MM	60 % FINER		NV												
GRAIN SIZE DIAMETER, 0.0028 MM							24.20 % FINER		NV						
GRAIN SIZE DIAMETER, 0.00372MM	90 % FINER		NV												
GRAIN SIZE DIAMETER, 0.0039 MM							28.60 % FINER		NV						
GRAIN SIZE DIAMETER, 0.00513MM	20 % FINER		NV												
GRAIN SIZE DIAMETER, 0.075 MM	7.60 % FINER		NV				84.60 % FINER		NV						
GRAIN SIZE DIAMETER, 0.106 MM	9.50 % FINER		NV				86.40 % FINER		NV						
GRAIN SIZE DIAMETER, 0.25 MM	5.90 % FINER		NV				91.40 % FINER		NV						
GRAIN SIZE DIAMETER, 0.425 MM	8.20 % FINER		NV				93.70 % FINER		NV						
GRAIN SIZE DIAMETER, 0.85 MM	5.50 % FINER		NV				95.50 % FINER		NV						
GRAIN SIZE DIAMETER, 19 MM	100.00 % FINER		NV				100.00 % FINER		NV						
GRAIN SIZE DIAMETER, 2 MM	98.20 % FINER		NV				97.40 % FINER		NV						
GRAIN SIZE DIAMETER, 37.5 MM	100.00 % FINER		NV				100.00 % FINER		NV						
GRAIN SIZE DIAMETER, 4.75 MM	9.50 % FINER		NV				98.90 % FINER		NV						
GRAIN SIZE DIAMETER, 75 MM	100.00 % FINER		NV				100.00 % FINER		NV						
GRAIN SIZE DIAMETER, 9.5 MM	100.00 % FINER		NV				100.00 % FINER		NV						

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099602	099603	099608	099609	099617
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1622	1622	1622	1622	1622
DEPTH:	15-16	16-17	10-20	10-20	23-24
DATE COLLECTED:	30-MAY-91	30-MAY-91	30-MAY-91	30-MAY-91	30-MAY-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480401.61	480401.61
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378528.95	1378528.95
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	12.10 %		NV	14.00 %		NV				23.40 %		NV
% SOLIDS										90.20 % SOLIDS		NV			
LIQUID LIMIT				22.00 NONE		NV							33.00 NONE		NV
PLASTICITY INDEX				9.00 NONE		NV							19.00 NONE		NV
SPECIFIC GRAVITY				2.75 NONE		NV							2.72 NONE		NV
GRAIN SIZE DIAMETER, 0.0012 MM				6.50 % FINER		NV									
GRAIN SIZE DIAMETER, 0.0027 MM													26.10 % FINER		NV
GRAIN SIZE DIAMETER, 0.0028 MM				10.50 % FINER		NV									
GRAIN SIZE DIAMETER, 0.0038 MM													29.50 % FINER		NV
GRAIN SIZE DIAMETER, 0.0039 MM				13.00 % FINER		NV									
GRAIN SIZE DIAMETER, 0.075 MM				39.60 % FINER		NV							79.70 % FINER		NV
GRAIN SIZE DIAMETER, 0.106 MM				41.80 % FINER		NV							84.30 % FINER		NV
GRAIN SIZE DIAMETER, 0.25 MM				49.60 % FINER		NV							94.70 % FINER		NV
GRAIN SIZE DIAMETER, 0.425 MM				55.40 % FINER		NV							96.70 % FINER		NV
GRAIN SIZE DIAMETER, 0.85 MM				62.30 % FINER		NV							98.00 % FINER		NV
GRAIN SIZE DIAMETER, 19 MM				96.30 % FINER		NV							100.00 % FINER		NV
GRAIN SIZE DIAMETER, 2 MM				73.60 % FINER		NV							99.20 % FINER		NV
GRAIN SIZE DIAMETER, 37.5 MM				100.00 % FINER		NV							100.00 % FINER		NV
GRAIN SIZE DIAMETER, 4.75 MM				83.30 % FINER		NV							99.90 % FINER		NV
GRAIN SIZE DIAMETER, 75 MM				100.00 % FINER		NV							100.00 % FINER		NV
GRAIN SIZE DIAMETER, 9.5 MM				91.20 % FINER		NV							100.00 % FINER		NV

000587

5204

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099619	099625	099626	099634	099653
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1622	1622	1622	1623	1623
DEPTH:	25-26	20-30	20-30	-6	-15
DATE COLLECTED:	31-MAY-91	31-MAY-91	31-MAY-91	03-JUN-91	04-JUN-91
NORTH COORDINATE:	480401.61	480401.61	480401.61	480515.1	480515.1
EAST COORDINATE:	1378528.95	1378528.95	1378528.95	1378532.07	1378532.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	18.00 %		NV				16.80 %		NV	26.80 %		NV
% SOLIDS							81.80 % SOLIDS		NV						
LIQUID LIMIT										30.00 NONE		NV	34.00 NONE		NV
PLASTICITY INDEX										15.00 NONE		NV	14.00 NONE		NV
SPECIFIC GRAVITY										2.78 NONE		NV	2.68 NONE		NV
GRAIN SIZE DIAMETER, 0.0012 MM													12.60 % FINER		NV
GRAIN SIZE DIAMETER, 0.0028 MM										17.80 % FINER		NV	20.00 % FINER		NV
GRAIN SIZE DIAMETER, 0.0038 MM										23.00 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0039 MM													24.20 % FINER		NV
GRAIN SIZE DIAMETER, 0.075 MM										59.10 % FINER		NV	76.70 % FINER		NV
GRAIN SIZE DIAMETER, 0.106 MM										61.40 % FINER		NV	79.50 % FINER		NV
GRAIN SIZE DIAMETER, 0.25 MM										68.60 % FINER		NV	87.90 % FINER		NV
GRAIN SIZE DIAMETER, 0.425 MM										73.20 % FINER		NV	92.20 % FINER		NV
GRAIN SIZE DIAMETER, 0.85 MM										77.90 % FINER		NV	95.30 % FINER		NV
GRAIN SIZE DIAMETER, 19 MM										95.60 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 2 MM										83.70 % FINER		NV	97.60 % FINER		NV
GRAIN SIZE DIAMETER, 37.5 MM										100.00 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 4.75 MM										88.10 % FINER		NV	99.40 % FINER		NV
GRAIN SIZE DIAMETER, 75 MM										100.00 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 9.5 MM										92.30 % FINER		NV	100.00 % FINER		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099654	099660	099661	099669	099676
TASK:	40.03.02	40.03.02	40.03.02	40.03.02	40.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1623	1623	1623	1623	1623
DEPTH:	-16	-16	-16	-24	-24
DATE COLLECTED:	04-JUN-91	04-JUN-91	04-JUN-91	05-JUN-91	05-JUN-91
NORTH COORDINATE:	480515.1	480515.1	480515.1	480515.1	480515.1
EAST COORDINATE:	1378532.07	1378532.07	1378532.07	1378532.07	1378532.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	17.00 %		NV				17.00 %		NV	17.00 %		NV
% SOLIDS							82.80 % SOLIDS		NV						

000589

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099677	057000	057002	057006	057008
TASK:	40.03.02	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1623	1668	1669	1671	1672
DEPTH:	-24	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:	05-JUN-91	04-DEC-90	04-DEC-90	04-DEC-90	04-DEC-90
NORTH COORDINATE:	480515.1	482660.83	482657.08	482611.28	482590.12
EAST COORDINATE:	1378532.07	1380751.18	1380738.52	1380736.91	1380737.23
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	R-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							12.00 %		NV	19.00 %		NV	39.00 %		NV
% SOLIDS	82.50 % SOLIDS		NV	89.60 % SOLIDS		NV	87.90 % SOLIDS		NV	80.30 % SOLIDS		NV	61.00 % SOLIDS		NV

000590

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	057010	057493	057497	057508	057518
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1673	1674	1674	1674	1674
DEPTH:	0-.5	4-4.5	6-6.5	11.5-12	16.5-17
DATE COLLECTED:	04-DEC-90	16-DEC-90	16-DEC-90	17-DEC-90	18-DEC-90
NORTH COORDINATE:	482584.41	479899.84	479899.84	479899.84	479899.84
EAST COORDINATE:	1380757.21	1379930.97	1379930.97	1379930.97	1379930.97
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 UG/KG		NV	11.00 %		NV	18.00 %		NV	12.00 %		NV	11.00 %		NV
% SOLIDS	82500.00 UG/KG		NV	88.50 % SOLIDS		NV	81.60 % SOLIDS		NV	87.00 % SOLIDS		NV	87.00 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	057532	057535	057539	057550	057560
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1676	1676	1676	1676	1676
DEPTH:	.5-1	2-2.5	4-4.5	9.5-10	14.5-15
DATE COLLECTED:	08-MAR-91	08-MAR-91	09-MAR-91	09-MAR-91	10-MAR-91
NORTH COORDINATE:	481187.51	481187.51	481187.51	481187.51	481187.51
EAST COORDINATE:	1380979.41	1380979.41	1380979.41	1380979.41	1380979.41
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	R-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	9.00 % MOISTURE		NV	19.00 %		NV	9.00 % MOISTURE		NV	10.00 %		NV	9.00 % MOISTURE		NV
% SOLIDS	90.00 % SOLIDS		NV	81.00 % SOLIDS		NV	90.00 % SOLIDS		NV	90.00 % SOLIDS		NV	90.00 % SOLIDS		NV

000592

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	100422	067116	067118	067096	067097
TASK:	03.01.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1679	1708	1708	1708	1708
DEPTH:	0-.5	-	-	7.5-9	9-10.5
DATE COLLECTED:	27-JAN-92	17-JUN-91	17-JUN-91	14-JUN-91	15-JUN-91
NORTH COORDINATE:	483924.53	477710.64	477710.64	477710.64	477710.64
EAST COORDINATE:	1378264.61	1379166.88	1379166.88	1379166.88	1379166.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV							22.00 %		NV	22.10 %		-
% SOLIDS	77.50 % SOLIDS		NV							78.40 % SOLIDS		NV			
IGNITABILITY							110.00 DEGREES		U						
LIQUID LIMIT										0.00 NONE		-	0.00 NONE		NV
PH				8.79 SU		-	7.27 SU		-						
PLASTICITY INDEX										0.00 NONE		NV	0.00 NONE		NV
SPECIFIC GRAVITY										2.26 NONE		NV	2.31 NONE		-
GRAIN SIZE DIAMETER, 0.0050 MM										3.30 % FINER		-	3.30 % FINER		NV
GRAIN SIZE DIAMETER, 0.0069 MM										6.50 % FINER		-	6.50 % FINER		NV
GRAIN SIZE DIAMETER, 0.075 MM										33.70 % FINER		-	33.70 % FINER		NV
GRAIN SIZE DIAMETER, 0.106 MM										38.60 % FINER		-	38.60 % FINER		NV
GRAIN SIZE DIAMETER, 0.25 MM										54.60 % FINER		-	54.60 % FINER		NV
GRAIN SIZE DIAMETER, 0.425 MM										63.50 % FINER		-	63.50 % FINER		NV
GRAIN SIZE DIAMETER, 0.85 MM										73.00 % FINER		-	73.00 % FINER		NV
GRAIN SIZE DIAMETER, 19 MM										100.00 % FINER		-	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 2 MM										82.00 % FINER		-	74.70 % FINER		NV
GRAIN SIZE DIAMETER, 37.5 MM										100.00 % FINER		-	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 4.75 MM										89.60 % FINER		-	53.40 % FINER		NV
GRAIN SIZE DIAMETER, 75 MM										100.00 % FINER		-	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 9.5 MM										95.00 % FINER		-	92.30 % FINER		NV

000593

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067098	067119	067102	067112	067064
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1708	1708	1708	1708	1709
DEPTH:	10.5-12	9-12	16.5-18	31.5-33	7.5-9
DATE COLLECTED:	15-JUN-91	17-JUN-91	16-JUN-91	16-JUN-91	06-JUN-91
NORTH COORDINATE:	477710.64	477710.64	477710.64	477710.64	477814.23
EAST COORDINATE:	1379166.88	1379166.88	1379166.88	1379166.88	1378969.43
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.10 %		NV	30.30 %		NV	23.00 %		NV	19.00 %		NV	24.00 %		NV
% SOLIDS							71.70 % SOLIDS		NV	80.60 % SOLIDS		NV	76.10 % SOLIDS		NV
LIQUID LIMIT	0.00 NONE		NV	0.00 NONE		-									
PLASTICITY INDEX	0.00 NONE		NV	0.00 NONE		-									
SPECIFIC GRAVITY	2.31 NONE		NV	2.23 NONE		-									
GRAIN SIZE DIAMETER, 0.00142MM	0 % FINER		NV												
GRAIN SIZE DIAMETER, 0.0050 MM				4.30 % FINER		NV									
GRAIN SIZE DIAMETER, 0.0069 MM				7.50 % FINER		NV									
GRAIN SIZE DIAMETER, 0.075 MM	7.80 % FINER		NV	36.20 % FINER		NV									
GRAIN SIZE DIAMETER, 0.106 MM	8.80 % FINER		NV	40.50 % FINER		NV									
GRAIN SIZE DIAMETER, 0.25 MM	4.60 % FINER		NV	53.80 % FINER		NV									
GRAIN SIZE DIAMETER, 0.425 MM	4.40 % FINER		NV	62.60 % FINER		NV									
GRAIN SIZE DIAMETER, 0.85 MM	3.70 % FINER		NV	72.90 % FINER		NV									
GRAIN SIZE DIAMETER, 19 MM	100.00 % FINER		NV	100.00 % FINER		NV									
GRAIN SIZE DIAMETER, 2 MM	74.70 % FINER		NV	84.80 % FINER		NV									
GRAIN SIZE DIAMETER, 37.5 MM	00.00 % FINER		NV	100.00 % FINER		NV									
GRAIN SIZE DIAMETER, 4.75 MM	4.50 % FINER		NV	94.20 % FINER		NV									
GRAIN SIZE DIAMETER, 75 MM	100.00 % FINER		NV	100.00 % FINER		NV									
GRAIN SIZE DIAMETER, 9.5 MM	92.30 % FINER		NV	98.30 % FINER		NV									

000594

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067071	067050	067029	067032	067047
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1709	1710	1710	1710	1710
DEPTH:	13.5-15	-	4.5-5	9-10.5	28.5-30
DATE COLLECTED:	06-JUN-91	01-JUN-91	31-MAY-91	31-MAY-91	01-JUN-91
NORTH COORDINATE:	477814.23	477931.49	477931.49	477931.49	477931.49
EAST COORDINATE:	1378969.43	1378993.33	1378993.33	1378993.33	1378993.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	NONE-NA	R-NA	R-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV				28.00 %		NV	25.00 %		NV	11.00 %		NV
% SOLIDS	81.40 % SOLIDS		NV				71.10 % SOLIDS		NV	74.30 % SOLIDS		NV	88.60 % SOLIDS		NV
PH				8.58 SU		-									

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067012	067015	067020	061320	061325
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1711	1711	1711	1712	1713
DEPTH:	4.5-6	9-10.5	18-19.5	1.5-2	1.5-2
DATE COLLECTED:	29-MAY-91	29-MAY-91	29-MAY-91	04-MAY-91	04-MAY-91
NORTH COORDINATE:	478126.52	478126.52	478126.52	477418.76	477342.63
EAST COORDINATE:	1378968.88	1378968.88	1378968.88	1379588.15	1379411.61
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	23.00 %		NV	30.00 %		NV	28.00 %		NV						
% SOLIDS	76.20 % SOLIDS		NV	70.00 % SOLIDS		NV	71.60 % SOLIDS		NV						
IGNITABILITY										110.00 DEGREES		U	110.00 DEGREES		U
PH										8.08 SU		-	8.02 SU		-

000596

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061330	061335	067281	067282	067302
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1714	1715	1718	1718	1719
DEPTH:	1.5-2	1.5-2	-	-	-
DATE COLLECTED:	04-MAY-91	04-MAY-91	01-AUG-91	01-AUG-91	08-AUG-91
NORTH COORDINATE:	477954.45	477901.68	482144.49	482144.49	482215.57
EAST COORDINATE:	1379280.94	1379517.33	1379619.44	1379619.44	1379699.18
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
IGNITABILITY	110.00 DEGREES		U	110.00 DEGREES		U							110.00 DEGREES		U
PH	8.19 SU		-	8.47 SU		-	7.80 SU		NV	7.74 SU		NV	7.50 SU		-

000597

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067287	067295	067300	067317	067307
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1719	1719	1719	1720	1720
DEPTH:	3-4.5	15-16.5	18-19.5	-	3-4.5
DATE COLLECTED:	07-AUG-91	08-AUG-91	08-AUG-91	10-AUG-91	10-AUG-91
NORTH COORDINATE:	482215.57	482215.57	482215.57	482215.72	482215.72
EAST COORDINATE:	1379699.18	1379699.18	1379699.18	1379783.27	1379783.27
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	7.00 % MOISTURE		NV	21.00 %		NV	10.00 %		NV				17.00 %		NV
% SOLIDS	93.20 % SOLIDS		NV	79.60 % SOLIDS		NV	89.90 % SOLIDS		NV				84.00 % SOLIDS		NV
PH										7.85 SU		-			

000598

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067311	067312	067244	067246	067234
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1720	1720	1721	1721	1721
DEPTH:	7.5-9	9-10.5	-	-	9-10.5
DATE COLLECTED:	10-AUG-91	10-AUG-91	28-JUL-91	28-JUL-91	26-JUL-91
NORTH COORDINATE:	482215.72	482215.72	482136.4	482136.4	482136.4
EAST COORDINATE:	1379783.27	1379783.27	1379785.34	1379785.34	1379785.34
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	13.00 %		NV									
% SOLIDS	82.30 % SOLIDS		NV	85.90 % SOLIDS		NV							77.50 % SOLIDS		NV
IGNITABILITY							110.00 DEGREES		U						
PH							7.91 SU		-	8.19 SU		-			

000599

5204

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067237	067262	067263	067250	067259
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1721	1722	1722	1722	1722
DEPTH:	13.5-15	-	-	1.5-3	14-16.5
DATE COLLECTED:	27-JUL-91	30-JUL-91	30-JUL-91	29-JUL-91	30-JUL-91
NORTH COORDINATE:	482136.4	482114.81	482114.81	482114.81	482114.81
EAST COORDINATE:	1379785.34	1379739.45	1379739.45	1379739.45	1379739.45
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV							9.00 % MOISTURE		NV	21.00 %		NV
% SOLIDS	77.50 % SOLIDS		NV							90.20 % SOLIDS		NV	78.10 % SOLIDS		NV
IGNITABILITY							78.00 DEGREES C		-						
PH				7.29 SU		-	8.80 SU		-						

000600

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067185	067187	067167	067173	067184
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1723	1723	1723	1723	1723
DEPTH:	-	-	4.5-6	13.5-15	29-30.5
DATE COLLECTED:	12-JUL-91	12-JUL-91	11-JUL-91	11-JUL-91	12-JUL-91
NORTH COORDINATE:	477243.17	477243.17	477243.17	477243.17	477243.17
EAST COORDINATE:	1379955.88	1379955.88	1379955.88	1379955.88	1379955.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							26.00 %		NV	23.00 %		NV	14.00 %		NV
% SOLIDS							73.90 % SOLIDS		NV	76.70 % SOLIDS		NV	85.20 % SOLIDS		NV
IGNITABILITY				110.00 DEGREES		U									
PH	7.85 SU		-	7.21 SU		-									

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067222	067223	067193	067199	067220
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1724	1724	1724	1724	1724
DEPTH:	-	-	4.5-6	12-14.5	12-14.5
DATE COLLECTED:	16-JUL-91	16-JUL-91	13-JUL-91	14-JUL-91	14-JUL-91
NORTH COORDINATE:	477239.7	477239.7	477239.7	477239.7	477239.7
EAST COORDINATE:	1379830.96	1379830.96	1379830.96	1379830.96	1379830.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	R-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE							17.00 %		NV	24.90 %		NV	29.80 %		NV
% SOLIDS							82.10 % SOLIDS		NV						
IGNITABILITY				64.00 DEGREES C		-									
LIQUID LIMIT										0.00 NONE		-	0.00 NONE		-
PH	7.52 SU		-	6.74 SU		-									
PLASTICITY INDEX										0.00 NONE		-	0.00 NONE		-
SPECIFIC GRAVITY										2.25 NONE		-	2.23 NONE		-
GRAIN SIZE DIAMETER, 0.0014 MM										0.00 % FINER		NV			
GRAIN SIZE DIAMETER, 0.0069 MM													9.90 % FINER		NV
GRAIN SIZE DIAMETER, 0.075 MM										28.80 % FINER		NV	41.80 % FINER		NV
GRAIN SIZE DIAMETER, 0.106 MM										32.70 % FINER		NV	46.00 % FINER		NV
GRAIN SIZE DIAMETER, 0.25 MM										45.30 % FINER		NV	58.30 % FINER		NV
GRAIN SIZE DIAMETER, 0.425 MM										53.50 % FINER		NV	65.20 % FINER		NV
GRAIN SIZE DIAMETER, 0.85 MM										64.10 % FINER		NV	73.50 % FINER		NV
GRAIN SIZE DIAMETER, 19 MM										100.00 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 2 MM										77.90 % FINER		NV	84.20 % FINER		NV
GRAIN SIZE DIAMETER, 37.5 MM										100.00 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 4.75 MM										87.90 % FINER		NV	93.30 % FINER		NV
GRAIN SIZE DIAMETER, 75 MM										100.00 % FINER		NV	100.00 % FINER		NV
GRAIN SIZE DIAMETER, 9.5 MM										92.60 % FINER		NV	99.50 % FINER		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067201	067218	067158	067159	067149
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1724	1724	1726	1726	1726
DEPTH:	16-17.5	41.5-43	-	-	9-10.5
DATE COLLECTED:	14-JUL-91	16-JUL-91	01-JUL-91	01-JUL-91	01-JUL-91
NORTH COORDINATE:	477239.7	477239.7	477317.49	477317.49	477317.49
EAST COORDINATE:	1379830.96	1379830.96	1380039.59	1380039.59	1380039.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	26.00 %		NV	16.00 %		NV							32.00 %		NV
% SOLIDS	73.70 % SOLIDS		NV	83.20 % SOLIDS		NV							67.60 % SOLIDS		NV
IGNITABILITY							110.00 DEGREES		U						
PH							7.12 SU		-	7.76 SU		J			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067155	101409	100865	101385	100841
TASK:	20.03.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1726	1729	1730	1732	1734
DEPTH:	18-19.5	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:	01-JUL-91	13-JAN-92	09-JAN-92	08-JAN-92	08-JAN-92
NORTH COORDINATE:	477317.49	483300	483300	483300	483300
EAST COORDINATE:	1380039.59	1378500	1379000	1379500	1380000
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	24.00 %		NV	22.00 %		NV	19.00 %		NV	21.00 %		NV
% SOLIDS	81.10 % SOLIDS		NV	76.00 % SOLIDS		NV	77.30 % SOLIDS		NV	80.90 % SOLIDS		NV	78.90 % SOLIDS		NV

000604

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	101372	100820	101358	100782	101334
TASK:	03.01.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1735	1736	1737	1738	1739
DEPTH:	0-.5	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:	07-JAN-92	05-JAN-92	06-JAN-92	02-JAN-92	02-JAN-92
NORTH COORDINATE:	483300	483334	483306	483539	482400
EAST COORDINATE:	1380500	1381000	1381957	1382635	1383000
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	DL-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	26.00 %		NV	19.00 %		NV	24.00 %		NV	19.00 %		NV	19.00 %		NV
% SOLIDS	73.60 % SOLIDS		NV	80.50 % SOLIDS		NV	75.60 % SOLIDS		NV	80.50 % SOLIDS		NV	80.60 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	100753	101310	100715	100701	101251
TASK:	03.01.01	03.01.01	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1740	1741	1742	1744	1745
DEPTH:	0-.5	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:	21-DEC-91	20-DEC-91	18-DEC-91	17-DEC-91	16-DEC-91
NORTH COORDINATE:	481800	480700	480213	478500	478500
EAST COORDINATE:	1383000	1383000	1383000	1383000	1382000
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	18.00 %		NV	20.00 %		NV	21.00 %		NV	18.00 %		NV
% SOLIDS	82.10 % SOLIDS		NV	79.90 % SOLIDS		NV	79.60 % SOLIDS		NV	78.20 % SOLIDS		NV	81.70 % SOLIDS		NV
PH													5.79 SU		-

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	100687	101244	100651	057451	057452
TASK:	03.01.01	03.01.01	03.01.01	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1746	1747	1748	1778	1778
DEPTH:	0-.5	0-.5	0-.5	4-4.5	4.5-5
DATE COLLECTED:	16-DEC-91	12-DEC-91	09-DEC-91	05-FEB-91	05-FEB-91
NORTH COORDINATE:	478000	477600	477300	480305.19	480305.19
EAST COORDINATE:	1382500	1382500	1382500	1381672.31	1381672.31
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	18.00 %		NV	20.00 %		NV	9.00 % MOISTURE		NV	9.00 % MOISTURE		NV
% SOLIDS	81.50 % SOLIDS		NV	81.40 % SOLIDS		NV	79.50 % SOLIDS		NV	90.00 % SOLIDS		NV	90.00 % SOLIDS		NV
PH	4.99 SU		-	5.63 SU		-									

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	099684	099685	099686	067123	067125
TASK:	40.03.02	40.03.02	40.03.02	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1790	1790	1790	1791	1791
DEPTH:	-5	-5	-5	-	-
DATE COLLECTED:	17-JUN-91	17-JUN-91	17-JUN-91	25-JUN-91	25-JUN-91
NORTH COORDINATE:	480513.75	480513.75	480513.75	477812.99	477812.99
EAST COORDINATE:	1378532.49	1378532.49	1378532.49	1378970.18	1378970.18
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	11.00 %		NV									
% SOLIDS							88.10 % SOLIDS		NV						
IGNITABILITY													110.00 DEGREES		U
PH										7.38 SU		-	7.39 SU		-

000608

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067122	067342	067343	067346	067350
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1791	1792	1792	1792	1792
DEPTH:	28.5-30	0-1.5	1.5-3	6-7.5	12-13.5
DATE COLLECTED:	25-JUN-91	21-AUG-91	21-AUG-91	21-AUG-91	21-AUG-91
NORTH COORDINATE:	477812.99	477280.15	477280.15	477280.15	477280.15
EAST COORDINATE:	1378970.18	1379372.54	1379372.54	1379372.54	1379372.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	R-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	0.00 % MOISTURE		NV	11.00 %		NV	7.00 % MOISTURE		NV	15.00 %		NV
% SOLIDS	82.00 % SOLIDS		NV				89.20 % SOLIDS		NV	92.90 % SOLIDS		NV	85.00 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067353	067356	067333	067324	067328
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1792	1792	1793	1794	1794
DEPTH:	16.5-18	21.5-23	3-4.5	0-1	2-2.5
DATE COLLECTED:	22-AUG-91	22-AUG-91	15-AUG-91	13-AUG-91	13-AUG-91
NORTH COORDINATE:	477280.15	477280.15	477464.98	477954.24	477954.24
EAST COORDINATE:	1379372.54	1379372.54	1379446.76	1379281.59	1379281.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	18.00 %		NV	12.00 %		NV	19.00 %		NV	12.00 %		NV
% SOLIDS	84.80 % SOLIDS		NV	81.40 % SOLIDS		NV	88.10 % SOLIDS		NV	81.20 % SOLIDS		NV	91.40 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067367	067370	039001	039009	039010
TASK:	20.03.01	20.03.01	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1795	1795	1796	1796	1796
DEPTH:	0-1	3-4	0-.5	5-7	9-11
DATE COLLECTED:	23-AUG-91	23-AUG-91	21-SEP-91	22-SEP-91	22-SEP-91
NORTH COORDINATE:	477941.43	477941.43	480294.65	480294.65	480294.65
EAST COORDINATE:	1379648.49	1379648.49	1380415.59	1380415.59	1380415.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	12.00 %		NV	10.00 %		NV	17.30 %		-	18.10 %		-
% SOLIDS	86.70 % SOLIDS		NV	87.20 % SOLIDS		NV	89.50 % SOLIDS		NV						
COMPRESSIVE STRENGTH										72.90 PSI		-	63.80 PSI		-
LIQUID LIMIT										38.00 NONE		-	31.00 NONE		-
MAJOR PRINCIPAL STRESS										152.80 PSI		-	143.80 PSI		-
MINOR PRINCIPAL STRESS										80.00 PSI		-	80.00 PSI		-
ORGANIC CONTENT										2.20 %		-	2.30 %		-
PLASTICITY INDEX										20.00 NONE		-	13.00 NONE		-
STRAIN AT FAILURE										9.40 PSI		-			
GRAIN SIZE DIAMETER, 0.0012 MM										27.10 % FINER		-	18.20 % FINER		-
GRAIN SIZE DIAMETER, 0.0027 MM										34.60 % FINER		-			
GRAIN SIZE DIAMETER, 0.0028 MM													24.30 % FINER		-
GRAIN SIZE DIAMETER, 0.0037 MM										38.40 % FINER		-	27.10 % FINER		-
GRAIN SIZE DIAMETER, 0.0050 MM										42.90 % FINER		-	31.50 % FINER		-
GRAIN SIZE DIAMETER, 0.0067MM										47.40 % FINER		-	34.80 % FINER		-
GRAIN SIZE DIAMETER, 0.0090 MM										53.10 % FINER		-	39.30 % FINER		-
GRAIN SIZE DIAMETER, 0.075 MM										84.10 % FINER		-	67.10 % FINER		-
GRAIN SIZE DIAMETER, 0.106 MM										85.10 % FINER		-	67.40 % FINER		-
GRAIN SIZE DIAMETER, 0.25 MM										87.90 % FINER		-	67.90 % FINER		-
GRAIN SIZE DIAMETER, 0.425 MM										90.10 % FINER		-	68.20 % FINER		-
GRAIN SIZE DIAMETER, 0.85 MM										92.00 % FINER		-	68.60 % FINER		-
GRAIN SIZE DIAMETER, 19 MM										98.40 % FINER		-	84.70 % FINER		-
GRAIN SIZE DIAMETER, 2 MM										94.70 % FINER		-	68.90 % FINER		-
GRAIN SIZE DIAMETER, 37.5 MM										100.00 % FINER		-	84.70 % FINER		-
GRAIN SIZE DIAMETER, 4.75 MM										96.40 % FINER		-	69.00 % FINER		-

SAMPLE NUMBER:	067367			067370			039001			039009			039010		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
GRAIN SIZE DIAMETER, 75 MM										100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 9.5 MM										97.30 % FINER		-	69.20 % FINER		-

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	039011	039083	039088	039089	039090
TASK:	04.08	04.08	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1796	1797	1797	1797	1797
DEPTH:	13-15	0-.5	5-8	9-12	13-16
DATE COLLECTED:	22-SEP-91	22-OCT-91	23-OCT-91	23-OCT-91	23-OCT-91
NORTH COORDINATE:	480294.65	480209.16	480209.16	480209.16	480209.16
EAST COORDINATE:	1380415.59	1380460.71	1380460.71	1380460.71	1380460.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.80 %		-	8.00 % MOISTURE		NV	18.50 %		-	22.60 %		-	21.80 %		-
% SOLIDS				82.80 % SOLIDS		NV									
COMPRESSIVE STRENGTH	10.70 PSI		-												
LIQUID LIMIT	15.00 NONE		-				28.00 NONE		-	20.00 NONE		-			
MAJOR PRINCIPAL STRESS	90.70 PSI		-												
MINOR PRINCIPAL STRESS	80.00 PSI		-												
ORGANIC CONTENT	1.70 %		-												
PLASTICITY INDEX							16.00 NONE		-	10.00 NONE		-			
SPECIFIC GRAVITY							2.77 NONE		-	2.75 NONE		-	2.76 NONE		-
GRAIN SIZE DIAMETER, 0.0013 MM							20.40 % FINER		-	16.60 % FINER		-			
GRAIN SIZE DIAMETER, 0.00148 MM	80 % FINER		-										8.10 % FINER		-
GRAIN SIZE DIAMETER, 0.0028 MM							24.90 % FINER		-						
GRAIN SIZE DIAMETER, 0.0030 MM										21.80 % FINER		-			
GRAIN SIZE DIAMETER, 0.0032 MM													9.30 % FINER		-
GRAIN SIZE DIAMETER, 0.00331 MM	40 % FINER		-												
GRAIN SIZE DIAMETER, 0.0042 MM							30.60 % FINER		-						
GRAIN SIZE DIAMETER, 0.0043 MM										26.90 % FINER		-			
GRAIN SIZE DIAMETER, 0.00461 MM	20 % FINER		-										11.60 % FINER		-
GRAIN SIZE DIAMETER, 0.0058 MM							34.00 % FINER		-						
GRAIN SIZE DIAMETER, 0.0060 MM										30.70 % FINER		-			
GRAIN SIZE DIAMETER, 0.0064 MM													14.00 % FINER		-
GRAIN SIZE DIAMETER, 0.00651 MM	80 % FINER		-												
GRAIN SIZE DIAMETER, 0.0078 MM							38.50 % FINER		-						
GRAIN SIZE DIAMETER, 0.0083 MM										35.80 % FINER		-			
GRAIN SIZE DIAMETER, 0.00901 MM	40 % FINER		-										16.30 % FINER		-

SAMPLE NUMBER:	039011			039083			039088			039089			039090		
LAB:	IT												IT		
SUFFIX/FILTERFLAG:	NONE-NA			-			-			-			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
GRAIN SIZE DIAMETER, 0.0110 MM							44.20 % FINER		-						
GRAIN SIZE DIAMETER, 0.0113 MM										43.50 % FINER		-			
GRAIN SIZE DIAMETER, 0.0125 MM													19.80 % FINER		-
GRAIN SIZE DIAMETER, 0.01261 M 40 % FINER			-												
GRAIN SIZE DIAMETER, 0.0182 MM							52.10 % FINER		-						
GRAIN SIZE DIAMETER, 0.0187 MM										53.70 % FINER		-			
GRAIN SIZE DIAMETER, 0.02082 M 90 % FINER			-												
GRAIN SIZE DIAMETER, 0.0213 MM													23.30 % FINER		-
GRAIN SIZE DIAMETER, 0.0260 MM										56.30 % FINER		-			
GRAIN SIZE DIAMETER, 0.0275 MM							58.90 % FINER		-						
GRAIN SIZE DIAMETER, 0.0313 M .30 % FINER			-												
GRAIN SIZE DIAMETER, 0.0330 MM													27.90 % FINER		-
GRAIN SIZE DIAMETER, 0.0370 MM							65.70 % FINER		-						
GRAIN SIZE DIAMETER, 0.0389 MM										66.50 % FINER		-			
GRAIN SIZE DIAMETER, 0.0414 M .50 % FINER			-												
GRAIN SIZE DIAMETER, 0.0461 MM													30.20 % FINER		-
GRAIN SIZE DIAMETER, 0.0502 MM							70.20 % FINER		-						
GRAIN SIZE DIAMETER, 0.0523 MM										74.20 % FINER		-			
GRAIN SIZE DIAMETER, 0.0545 M .70 % FINER			-												
GRAIN SIZE DIAMETER, 0.0629 MM													37.20 % FINER		-
GRAIN SIZE DIAMETER, 0.075 M .40 % FINER			-				70.90 % FINER		-	78.70 % FINER		-	46.70 % FINER		-
GRAIN SIZE DIAMETER, 0.106 M .00 % FINER			-				73.90 % FINER		-	86.10 % FINER		-	56.50 % FINER		-
GRAIN SIZE DIAMETER, 0.25 M 7.70 % FINER			-				81.20 % FINER		-	97.60 % FINER		-	97.70 % FINER		-
GRAIN SIZE DIAMETER, 0.425 M .70 % FINER			-				85.00 % FINER		-	98.80 % FINER		-	99.50 % FINER		-
GRAIN SIZE DIAMETER, 0.85 M 9.80 % FINER			-				89.40 % FINER		-	99.50 % FINER		-	99.80 % FINER		-
GRAIN SIZE DIAMETER, 19 MM 100.00 % FINER			-				100.00 % FINER		-	100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 2 MM 99.90 % FINER			-				94.50 % FINER		-	99.80 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 37.5 M 00.00 % FINER			-				100.00 % FINER		-	100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 4.75 M 9.90 % FINER			-				97.80 % FINER		-	100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 75 MM 100.00 % FINER			-				100.00 % FINER		-	100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 9.5 MM 100.00 % FINER			-				100.00 % FINER		-	100.00 % FINER		-	100.00 % FINER		-

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	039091	039060	039069	039070	039071
TASK:	04.08	04.08	04.08	04.08	04.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1797	1802	1802	1802	1802
DEPTH:	17-20	0-.5	5-8	9-12	13-16
DATE COLLECTED:	23-OCT-91	15-OCT-91	16-OCT-91	16-OCT-91	16-OCT-91
NORTH COORDINATE:	480209.16	480194.47	480194.47	480194.47	480194.47
EAST COORDINATE:	1380460.71	1380368.08	1380368.08	1380368.08	1380368.08
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	29.70 %		-	12.00 %		NV	14.10 %		NV	20.40 %		NV	16.20 %		NV
% SOLIDS				87.30 % SOLIDS		NV									
COMPRESSIVE STRENGTH							13.70 PSI		-				33.40 PSI		-
LIQUID LIMIT	24.00 NONE		-				24.00 NONE		-	20.00 NONE		-	26.00 NONE		-
MAJOR PRINCIPAL STRESS							93.70 PSI		-				113.40 PSI		-
MINOR PRINCIPAL STRESS							80.00 PSI		-				80.00 PSI		-
ORGANIC CONTENT							1.20 %		-	1.80 %		-	1.60 %		-
PLASTICITY INDEX	3.00 NONE		-				9.00 NONE		-	6.00 NONE		-	10.00 NONE		-
SPECIFIC GRAVITY	2.62 NONE		-												
STRAIN AT FAILURE							5.40 PSI		-						
GRAIN SIZE DIAMETER, 0.0012 MM							20.50 % FINER		-	24.50 % FINER		-	22.70 % FINER		-
GRAIN SIZE DIAMETER, 0.00141 MM	10 % FINER		-												
GRAIN SIZE DIAMETER, 0.0028 MM										33.20 % FINER		-	32.10 % FINER		-
GRAIN SIZE DIAMETER, 0.0029 MM							30.40 % FINER		-						
GRAIN SIZE DIAMETER, 0.00332 MM	10 % FINER		-												
GRAIN SIZE DIAMETER, 0.0038 MM										38.70 % FINER		-	36.80 % FINER		-
GRAIN SIZE DIAMETER, 0.0039 MM							34.20 % FINER		-						
GRAIN SIZE DIAMETER, 0.00462 MM	90 % FINER		-												
GRAIN SIZE DIAMETER, 0.0051 MM										43.50 % FINER		-	42.30 % FINER		-
GRAIN SIZE DIAMETER, 0.0052 MM							39.50 % FINER		-						
GRAIN SIZE DIAMETER, 0.00642 MM	60 % FINER		-												
GRAIN SIZE DIAMETER, 0.0068 MM										49.00 % FINER		-	48.60 % FINER		-
GRAIN SIZE DIAMETER, 0.0069 MM							45.60 % FINER		-						
GRAIN SIZE DIAMETER, 0.00883 MM	70 % FINER		-												
GRAIN SIZE DIAMETER, 0.0090 MM										54.60 % FINER		-	54.10 % FINER		-

000615

57204

SAMPLE NUMBER:	039091			039060			039069			039070			039071		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
GRAIN SIZE DIAMETER, 0.0091 MM							50.90 % FINER		-						
GRAIN SIZE DIAMETER, 0.012130MM90 % FINER			-												
GRAIN SIZE DIAMETER, 0.01975MM50 % FINER			-												
GRAIN SIZE DIAMETER, 0.03015MM80 % FINER			-												
GRAIN SIZE DIAMETER, 0.041960MM30 % FINER			-												
GRAIN SIZE DIAMETER, 0.075 MM.10 % FINER			-				89.90 % FINER		-	97.30 % FINER		-	96.20 % FINER		-
GRAIN SIZE DIAMETER, 0.106 MM.60 % FINER			-				91.10 % FINER		-	97.80 % FINER		-	97.30 % FINER		-
GRAIN SIZE DIAMETER, 0.25 MM2.60 % FINER			-				93.90 % FINER		-	98.50 % FINER		-	98.40 % FINER		-
GRAIN SIZE DIAMETER, 0.425 MM.80 % FINER			-				95.50 % FINER		-	98.90 % FINER		-	98.80 % FINER		-
GRAIN SIZE DIAMETER, 0.85 MM6.80 % FINER			-				96.90 % FINER		-	99.50 % FINER		-	99.20 % FINER		-
GRAIN SIZE DIAMETER, 19 MM 100.00 % FINER			-				100.00 % FINER		-	100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 2 MM 98.50 % FINER			-				98.60 % FINER		-	99.90 % FINER		-	99.60 % FINER		-
GRAIN SIZE DIAMETER, 37.5 MM00.00 % FINER			-				100.00 % FINER		-	100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 4.75 MM9.70 % FINER			-				99.50 % FINER		-	100.00 % FINER		-	99.80 % FINER		-
GRAIN SIZE DIAMETER, 75 MM 100.00 % FINER			-				100.00 % FINER		-	100.00 % FINER		-	100.00 % FINER		-
GRAIN SIZE DIAMETER, 9.5 MM100.00 % FINER			-				99.50 % FINER		-	100.00 % FINER		-	100.00 % FINER		-

000616

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067394	067396	067397	067402	067401
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	20.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1808	1808	1808	1808	1808
DEPTH:	3-4.5	7.5-9	9-10.5	0-12.7	15-16.5
DATE COLLECTED:	27-AUG-91	27-AUG-91	27-AUG-91	27-AUG-91	27-AUG-91
NORTH COORDINATE:	482142.91	482142.91	482142.91	482142.91	482142.91
EAST COORDINATE:	1379622.56	1379622.56	1379622.56	1379622.56	1379622.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	R-NA	R-NA	NONE-NA	NONE-NA	R-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	9.00 % MOISTURE		NV	19.00 %		NV							12.00 %		NV
PH							7.28 SU		-	7.22 SU		-			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067503	067505	067507	067506	098397
TASK:	20.03.01	20.03.01	20.03.01	20.03.01	50.03.07
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1820	1820	1820	1820	1836
DEPTH:	1.5-3	6-7.5	0-9.5	9.5-12	-
DATE COLLECTED:	16-OCT-91	16-OCT-91	16-OCT-91	16-OCT-91	09-JUL-92
NORTH COORDINATE:	477414.33	477414.33	477414.33	477414.33	481090.87
EAST COORDINATE:	1379888.2	1379888.2	1379888.2	1379888.2	1378734.69
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	DL-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.00 %		NV	21.00 %		NV				19.00 %		NV			
% SOLIDS	77.90 % SOLIDS		NV	78.60 % SOLIDS		NV				80.80 % SOLIDS		NV			
IGNITABILITY							110.00 DEGREES		U						
PH							6.89 SU		-				8.31 SU		J

000618

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	098372	098356	098358	098440	098406
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1836	1837	1837	1838	1838
DEPTH:	3-4	3-4	6-7	-	2.5-3.5
DATE COLLECTED:	06-JUL-92	01-JUL-92	01-JUL-92	13-JUL-92	08-JUL-92
NORTH COORDINATE:	481090.87	480839.19	480839.19	481173	481173
EAST COORDINATE:	1378734.69	1378727.1	1378727.1	1378540.7	1378540.7
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	11.00 %		NV	11.00 %		NV				12.00 %		NV
PH										8.21 SU		-			

000619

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	098411	098318	098323	098462	098458
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT-KNOX	IT
WELL OR BORING NUMBER:	1838	1839	1839	1840	1840
DEPTH:	5-6	2-3	5-6	-	10.5-11.5
DATE COLLECTED:	09-JUL-92	24-JUN-92	24-JUN-92	09-AUG-92	08-AUG-92
NORTH COORDINATE:	481173	480433.9	480433.9	479964.9	479964.9
EAST COORDINATE:	1378540.7	1379149.98	1379149.98	1380658.84	1380658.84
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	NORMAL
QC OF:				098463	
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	14.00 %		NV	15.00 %		NV				19.00 %		NV
PH										7.86 SU		-			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	098461	098301	098305	098284	098508
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	IT-KNOX
WELL OR BORING NUMBER:	1840	1841	1841	1842	1842
DEPTH:	13.5-14.5	9.5-10.5	11.5-12.5	8-9	10.5-11.5
DATE COLLECTED:	08-AUG-92	17-JUN-92	19-JUN-92	16-JUN-92	09-DEC-92
NORTH COORDINATE:	479964.9	479953.19	479953.19	479927.25	479927.25
EAST COORDINATE:	1380658.84	1381086.76	1381086.76	1381972.92	1381972.92
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	15.00 %		NV	15.00 %		NV	14.00 %		NV	12.00 UG/KG		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	098248	098252	067706	067711	067604
TASK:	50.03.07	50.03.07	20.03.02	20.03.02	20.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1843	1843	1846	1846	1849
DEPTH:	8.5-9.5	10.5-11.5	6-7.5	13.5-15	6-7.5
DATE COLLECTED:	10-JUN-92	10-JUN-92	22-FEB-92	22-FEB-92	22-FEB-92
NORTH COORDINATE:	479905.6	479905.6	477221.45	477221.45	477806.91
EAST COORDINATE:	1382522.39	1382522.39	1379953.49	1379953.49	1378975.19
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	R-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	11.00 %		NV	21.00 %		NV	21.00 %		NV	28.00 %		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067609	067627	067632	067636	067714
TASK:	20.03.02	20.03.02	20.03.02	20.03.02	20.03.02
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1849	1850	1850	1850	1888
DEPTH:	13.5-15	6-7.5	13.5-15	0-15	0-1.5
DATE COLLECTED:	22-FEB-92	23-FEB-92	23-FEB-92	23-FEB-92	23-FEB-92
NORTH COORDINATE:	477806.91	478126.2	478126.2	478126.2	482124.84
EAST COORDINATE:	1378975.19	1378962.62	1378962.62	1378962.62	1379761.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	17.00 %		NV	17.00 %		NV				12.00 %		NV
IGNITABILITY										110.00 DEGREES		-			
PH										6.75 SU		-			

000823

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	067717	067740	112559	112563	112536
TASK:	20.03.02	20.03.02	20.03.05	20.03.05	20.03.05
LAB:	IT	IT	ITAS	ITAS	ITAS
WELL OR BORING NUMBER:	1888	1889	1969	1969	1971
DEPTH:	5-6	15.5-17.5	4.5-6	9-10.5	4.5-6.5
DATE COLLECTED:	23-FEB-92	25-FEB-92	15-APR-93	15-APR-93	15-APR-93
NORTH COORDINATE:	482124.84	482121.36	477633.01	477633.01	477709.01
EAST COORDINATE:	1379761.91	1379765.86	1379700.05	1379700.05	1379566.04
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	10.00 %		NV	19.88 %		NV	20.37 %		NV	20.47 %		NV
% SOLIDS				89.40 % SOLIDS		NV									

000634

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	112593	056914	056917	112584	112588
TASK:	20.03.05	3.7	3.7	20.03.05	20.03.05
LAB:	ITAS	IT	IT	ITAS	ITAS
WELL OR BORING NUMBER:	1971	1974	1974	1978	1978
DEPTH:	9.5-11	.5-1	2-2.5	9.5-11	13.5-15
DATE COLLECTED:	15-APR-93	24-OCT-90	25-OCT-90	16-APR-93	16-APR-93
NORTH COORDINATE:	477709.01	481667.79	481667.79	477395.02	477395.02
EAST COORDINATE:	1379566.04	1381163.33	1381163.33	1379639.05	1379639.05
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.08 %		NV	13.00 %		NV	18.00 %		NV	25.00 %		NV	11.18 %		NV
% SOLIDS				79.70 % SOLIDS		NV	81.80 % SOLIDS		NV						

000625

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	111484	111486	111487	111480	111482
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	ITAS	ITAS	ITAS	ITAS	ITAS
WELL OR BORING NUMBER:	1982	1982	1982	1983	1983
DEPTH:	0-2.5	0-2.5	7.5-10	17.5-20	17.5-20
DATE COLLECTED:	06-MAY-93	06-MAY-93	06-MAY-93	05-MAY-93	05-MAY-93
NORTH COORDINATE:	482223.3	482223.3	482223.3	482173.32	482173.32
EAST COORDINATE:	1379595.2	1379595.2	1379595.2	1379593.72	1379593.72
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.20 %		NV	18.15 %		NV	11.81 %		NV	9.11 % MOISTURE		NV	9.45 % MOISTURE		NV

000626

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	116252	116257	010170	055411	055453
TASK:	20.03.05	20.03.05	3.2	3.7	3.7
LAB:	ITAS	ITAS	IT	IT	IT
WELL OR BORING NUMBER:	1997	1997	2094	21191	21192
DEPTH:	34-35.5	38-39	16-16	-	-
DATE COLLECTED:	07-MAY-93	07-MAY-93	17-JUN-88	19-MAY-90	20-MAY-90
NORTH COORDINATE:	477871.13	477871.13	470832.49	477071.1	477022.52
EAST COORDINATE:	1378960.5	1378960.5	1380701.68	1379636.54	1379642.08
QA TYPE:	NORMAL	NORMAL	NORMAL	DRILL CUTTINGS	DRILL CUTTINGS
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.04 %		NV	9.62 % MOISTURE		NV	3.86 % MOISTURE		NV						
COMBUSTION (BTU)										110.00 DEGREES		U			
PH										8.78 SU		-	8.41 SU		J

000627

5204

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	055494	104450	100371	100577	100318
TASK:	3.7	50.03.12	03.01.01	03.01.01	03.01.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	21193	2166	2728	2731	2733
DEPTH:	-	-	0-.5	0-.5	0-.5
DATE COLLECTED:	22-MAY-90	19-OCT-92	19-MAR-92	09-JAN-92	24-JAN-92
NORTH COORDINATE:	476976.12	476523.77	483301.63	484155	477070.67
EAST COORDINATE:	1379619.39	1381106.59	1377960.59	1382895	1383161.03
QA TYPE:	DRILL CUTTINGS	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE				36.00 %		NV	23.00 %		NV	21.00 %		NV	19.00 %		NV
% SOLIDS							77.10 % SOLIDS		NV	78.30 % SOLIDS		NV	83.80 % SOLIDS		NV
PH	8.45 SU		-												

000628

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	070261	033427	038131	103604	103606
TASK:	04.22	3.2	50.03.08	04.20	04.20
LAB:	IT	IT	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	3019	3397	3402	ASI-17	ASI-17
DEPTH:	-	133.-135.	116.-118.	0-.17	.17-.33
DATE COLLECTED:	06-AUG-92	22-SEP-91	17-MAR-92	28-SEP-92	28-SEP-92
NORTH COORDINATE:	481675.11	478276.43	478196.71	479864.6	479864.6
EAST COORDINATE:	1379097.62	1381003.53	1378786.49	1383043	1383043
QA TYPE:	DRILL CUTTINGS	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE										24.80 %		NV	24.20 %		NV
COMPRESSIVE STRENGTH				75.06 PSI		NV									
MAJOR PRINCIPAL STRESS				165.06 PSI		NV									
MINOR PRINCIPAL STRESS				90.00 PSI		NV									
PERMEABILITY				0.00 CM/S		NV									
PH	8.26 SU		-												
STRAIN AT FAILURE				10.35 PSI		NV									
GRAIN SIZE DIAMETER, 0.0013 MM							12.00 % FINER		-						
GRAIN SIZE DIAMETER, 0.0032 MM							21.00 % FINER		-						
GRAIN SIZE DIAMETER, 0.0083 MM							37.60 % FINER		-						
GRAIN SIZE DIAMETER, 0.075 MM							77.90 % FINER		-						
GRAIN SIZE DIAMETER, 0.106 MM							82.00 % FINER		-						
GRAIN SIZE DIAMETER, 0.25 MM							88.80 % FINER		-						
GRAIN SIZE DIAMETER, 0.425 MM							94.20 % FINER		-						
GRAIN SIZE DIAMETER, 0.85 MM							97.00 % FINER		-						
GRAIN SIZE DIAMETER, 19 MM							100.00 % FINER		-						
GRAIN SIZE DIAMETER, 2 MM							97.60 % FINER		-						
GRAIN SIZE DIAMETER, 37.5 MM							100.00 % FINER		-						
GRAIN SIZE DIAMETER, 4.75 MM							99.20 % FINER		-						
GRAIN SIZE DIAMETER, 75 MM							100.00 % FINER		-						
GRAIN SIZE DIAMETER, 9.5 MM							100.00 % FINER		-						

000629

52704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	103608			103610			103612			103614			103620		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	ASI-17			ASI-17			ASI-17			ASI-17			ASI-18		
DEPTH:	.33-.5			.5-1			1-1.5			1.5-2			0-.17		
DATE COLLECTED:	28-SEP-92			28-SEP-92			28-SEP-92			28-SEP-92			28-SEP-92		
NORTH COORDINATE:	479864.6			479864.6			479864.6			479864.6			479934.5		
EAST COORDINATE:	1383043			1383043			1383043			1383043			1383074.8		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.80 %		NV	18.80 %		NV	15.30 %		NV	17.00 %		NV	23.10 %		NV

000630

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	103622			103624			103626			103628			103630		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	ASI-18			ASI-18			ASI-18			ASI-18			ASI-18		
DEPTH:	.17-.33			.33-.5			.5-1			1-1.5			1.5-2		
DATE COLLECTED:	28-SEP-92			28-SEP-92			28-SEP-92			28-SEP-92			28-SEP-92		
NORTH COORDINATE:	479934.5			479934.5			479934.5			479934.5			479934.5		
EAST COORDINATE:	1383074.8			1383074.8			1383074.8			1383074.8			1383074.8		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	22.30 %		NV	21.80 %		NV	19.00 %		NV	16.00 %		NV	20.00 %		NV

000631

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	103517	103518	103520	103522	103524
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	ASI-2	ASI-2	ASI-2	ASI-2	ASI-2
DEPTH:	0-.17	.17-.33	.33-.5	.5-1	1-1.5
DATE COLLECTED:	21-SEP-92	21-SEP-92	21-SEP-92	21-SEP-92	21-SEP-92
NORTH COORDINATE:	480287.794	480287.794	480287.794	480287.794	480287.794
EAST COORDINATE:	1383058.99	1383058.99	1383058.99	1383058.99	1383058.99
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	29.30 %		NV	20.10 %		NV	17.70 %		NV	17.40 %		NV	20.50 %		NV

000632

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	103550	103548	103552	103554	103556
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	ASI-3	ASI-4	ASI-4	ASI-4	ASI-4
DEPTH:	.17-.33	0-.17	.33-.5	.5-1	1-1.5
DATE COLLECTED:	22-SEP-92	22-SEP-92	22-SEP-92	22-SEP-92	22-SEP-92
NORTH COORDINATE:	480112.1	480123	480123	480123	480123
EAST COORDINATE:	1382908.9	1382850.4	1382850.4	1382850.4	1382850.4
QA TYPE:	EXCAVATED	NORMAL	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	23.70 %		NV	29.80 %		NV	20.90 %		NV	21.10 %		NV	22.60 %		NV

000633

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	103558	103560	103562	103564	103566
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	ASI-5	ASI-5	ASI-5	ASI-5	ASI-5
DEPTH:	0-.17	.17-.33	.33-.5	.5-1	1-1.5
DATE COLLECTED:	22-SEP-92	22-SEP-92	22-SEP-92	22-SEP-92	22-SEP-92
NORTH COORDINATE:	480137.6	480137.6	480137.6	480137.6	480137.6
EAST COORDINATE:	1382772.6	1382772.6	1382772.6	1382772.6	1382772.6
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	46.10 %		NV	33.30 %		NV	27.80 %		NV	22.40 %		NV	21.90 %		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	103569	103571	103573	103575	103579
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	ASI-6	ASI-6	ASI-6	ASI-6	ASI-7
DEPTH:	0-.17	.17-.33	.33-.5	.5-1	0-.17
DATE COLLECTED:	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92
NORTH COORDINATE:	480055.2	480055.2	480055.2	480055.2	480018.5
EAST COORDINATE:	1382898.2	1382898.2	1382898.2	1382898.2	1382904.7
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	29.60 %		NV	22.30 %		NV	18.90 %		NV	17.40 %		NV	32.10 %		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	103581	103583	103585	103587	104001
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	ASI-7	ASI-7	ASI-7	ASI-7	C-1
DEPTH:	.17-.33	.33-.5	.5-1	1-1.5	0-.17
DATE COLLECTED:	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92
NORTH COORDINATE:	480018.5	480018.5	480018.5	480018.5	480711.945
EAST COORDINATE:	1382904.7	1382904.7	1382904.7	1382904.7	1383438.53
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	28.60 %		NV	26.90 %		NV	18.90 %		NV	21.00 %		NV	24.30 %		NV

000636

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104003	104005	104055	104057	104059
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	C-1	C-1	C-10	C-10	C-10
DEPTH:	.17-.33	.33-.5	-.17	.17-.33	.33-.5
DATE COLLECTED:	23-SEP-92	23-SEP-92	24-SEP-92	24-SEP-92	24-SEP-92
NORTH COORDINATE:	480711.945	480711.945	480488.064	480488.064	480488.064
EAST COORDINATE:	1383438.53	1383438.53	1383437.88	1383437.88	1383437.88
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	25.50 %		NV	25.10 %		NV	30.70 %		NV	27.40 %		NV	20.60 %		NV

000637

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104007	104009	104011	104013	104015
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	C-2	C-2	C-2	C-3	C-3
DEPTH:	0-.17	.17-.33	.33-.5	0-.17	.17-.33
DATE COLLECTED:	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92
NORTH COORDINATE:	480662.719	480662.719	480662.719	480612.987	480612.987
EAST COORDINATE:	1383352.33	1383352.33	1383352.33	1383437.86	1383437.86
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	28.50 %		NV	25.50 %		NV	23.70 %		NV	25.40 %		NV	24.90 %		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104017	104019	104021	104023	104025
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	C-3	C-4	C-4	C-4	C-5
DEPTH:	.33-.5	0-.17	.17-.33	.33-.5	0-.17
DATE COLLECTED:	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92	23-SEP-92
NORTH COORDINATE:	480612.987	480587.748	480587.748	480587.748	480563.195
EAST COORDINATE:	1383437.86	1383287.36	1383287.36	1383287.36	1383362.93
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	25.60 %		NV	29.30 %		NV	24.10 %		NV	21.90 %		NV	28.50 %		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104027			104029			104031			104033			104035		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	C-5			C-5			C-6			C-6			C-6		
DEPTH:	.17-.33			.33-.5			0-.17			.17-.33			.33-.5		
DATE COLLECTED:	23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92		
NORTH COORDINATE:	480563.195			480563.195			480512.45			480512.45			480512.45		
EAST COORDINATE:	1383362.93			1383362.93			1383312.55			1383312.55			1383312.55		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	24.30 %		NV	22.70 %		NV	22.90 %		NV	22.40 %		NV	20.70 %		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	075503			104037			104039			104041			104043		
TASK:	04.01			04.20			04.20			04.20			04.20		
LAB:	IT			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	C-7			C-7			C-7			C-7			C-8		
DEPTH:	0-.5			0-.17			.17-.33			.33-.5			0-.17		
DATE COLLECTED:	10-NOV-91			23-SEP-92			23-SEP-92			23-SEP-92			23-SEP-92		
NORTH COORDINATE:	480512.877			480512.877			480512.877			480512.877			480512.884		
EAST COORDINATE:	1383337.95			1383337.95			1383337.95			1383337.95			1383462.74		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	9.00 % MOISTURE		NV	23.50 %		NV	22.30 %		NV	20.10 %		NV	24.50 %		NV
% SOLIDS	90.00 % SOLIDS		NV												

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104045			104047			104049			104051			104053		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	C-8			C-8			C-9			C-9			C-9		
DEPTH:	.17-.33			.33-.5			-.17			.17-.33			.33-.5		
DATE COLLECTED:	23-SEP-92			23-SEP-92			24-SEP-92			24-SEP-92			24-SEP-92		
NORTH COORDINATE:	480512.884			480512.884			480487.471			480487.471			480487.471		
EAST COORDINATE:	1383462.74			1383462.74			1383312.91			1383312.91			1383312.91		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	23.20 %		NV	23.50 %		NV	30.40 %		NV	27.10 %		NV	23.70 %		NV

000642

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104101			104103			104105			104107			104109		
TASK:	04.20			04.20			04.20			04.20			04.20		
LAB:	DATACHEM			DATACHEM			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	D-1			D-1			D-1			D-2			D-2		
DEPTH:	-.17			.17-.33			.33-.5			0-.17			.17-.33		
DATE COLLECTED:	24-SEP-92			24-SEP-92			24-SEP-92			24-SEP-92			24-SEP-92		
NORTH COORDINATE:	480201.248			480201.248			480201.248			480199.942			480199.942		
EAST COORDINATE:	1383302.83			1383302.83			1383302.83			1383352.53			1383352.53		
QA TYPE:	EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED			EXCAVATED		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-NA			NONE-NA			NONE-NA			NONE-NA			NONE-NA		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	26.30 %		NV	24.00 %		NV	20.60 %		NV	26.10 %		NV	23.90 %		NV

000643

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104111	104113	104115	104117	104119
TASK:	04.20	04.20	04.20	04.20	04.20
LAB:	DATACHEM	DATACHEM	DATACHEM	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	D-2	D-3	D-3	D-3	D-4
DEPTH:	.33-.5	-.17	.17-.33	.33-.5	-.17
DATE COLLECTED:	24-SEP-92	24-SEP-92	24-SEP-92	24-SEP-92	24-SEP-92
NORTH COORDINATE:	480199.942	480151.351	480151.351	480151.351	480101.451
EAST COORDINATE:	1383352.53	1383352.93	1383352.93	1383352.93	1383351.43
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.10 %		NV	21.40 %		NV	18.30 %		NV	18.00 %		NV	21.60 %		NV

000644

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104121	104123	075504	104125	104127
TASK:	04.20	04.20	04.01	04.20	04.20
LAB:	DATACHEM	DATACHEM	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	D-4	D-4	D-5	D-5	D-5
DEPTH:	.17-.33	.33-.5	0-.5	-.17	.17-.33
DATE COLLECTED:	24-SEP-92	24-SEP-92	10-NOV-91	24-SEP-92	24-SEP-92
NORTH COORDINATE:	480101.451	480101.451	480050.648	480050.648	480050.648
EAST COORDINATE:	1383351.43	1383351.43	1383350.03	1383350.03	1383350.03
QA TYPE:	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.30 %		NV	20.70 %		NV	6.00 % MOISTURE		NV	20.60 %		NV	20.20 %		NV
% SOLIDS							93.60 % SOLIDS		NV						

000645

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	104129	099236	099227	099229	099233
TASK:	04.20	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	DATACHEM	IT-KNOX	IT-KNOX	IT-KNOX	IT-KNOX
WELL OR BORING NUMBER:	D-5	FT-1	FT-2	FT-3	FT-4
DEPTH:	.33-.5	1-1.5	1-1.5	1-1.5	1-1.5
DATE COLLECTED:	24-SEP-92	29-DEC-92	14-DEC-92	16-DEC-92	17-DEC-92
NORTH COORDINATE:	480050.648	482252.15	482250.45	482252.52	482199.48
EAST COORDINATE:	1383350.03	1380198.15	1380837.79	1380983.13	1380897.59
QA TYPE:	EXCAVATED	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.10 %		NV	31.00 UG/KG		NV	22.00 UG/KG		NV	22.00 UG/KG		NV	23.00 UG/KG		NV
% SOLIDS				69000.00 UG/KG		NV	78300.00 UG/KG		NV	78200.00 UG/KG		NV	77100.00 UG/KG		NV

000646

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	111790	111791	111792	111793	111794
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	ITAS	ITAS	ITAS	ITAS	ITAS
WELL OR BORING NUMBER:	IFP-SS-01	IFP-SS-02	IFP-SS-03	IFP-SS-04	IFP-SS-05
DEPTH:	0-.5	0-.5	0-.5	0-.5	0-.5
DATE COLLECTED:	16-APR-93	16-APR-93	16-APR-93	16-APR-93	16-APR-93
NORTH COORDINATE:	477700.23	477780.39	477812.34	477839.06	477981.13
EAST COORDINATE:	1379288.15	1379109.01	1379045.82	1378957.87	1379030.85
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	39.70 %		NV	13.33 %		NV	5.70 % MOISTURE		NV	21.55 %		NV	20.70 %		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	111795	111796	114564	099154	099155
TASK:	20.03.05	20.03.05	20.03.05	50.03.07	50.03.07
LAB:	ITAS	ITAS	ITAS	IT	IT
WELL OR BORING NUMBER:	IFP-SS-06	IFP-SS-07	LSP-SB-01	P1P2	P1P2
DEPTH:	0-.5	0-.5	.5-1	0-1	2-3
DATE COLLECTED:	16-APR-93	16-APR-93	05-MAY-93	12-JAN-93	12-JAN-93
NORTH COORDINATE:	478059.99	478165.89	480660.61	481183.82	481183.82
EAST COORDINATE:	1378926.62	1379023.03	1379549.95	1380571.96	1380571.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.05 %		NV	20.63 %		NV	16.30 %		NV				25.00 UG/KG		NV
% SOLIDS										88900.00 UG/KG		NV			

000648

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061401	061406	061408	061413	061415
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P45	P1P45	P1P46	P1P46	P1P47
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	481159	481159	481161	481161	481163.1
EAST COORDINATE:	1380017.6	1380017.6	1379942.6	1379942.6	1379867.6
QA TYPE:	EXCAVATED	NORMAL	EXCAVATED	NORMAL	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	16.00 %		NV	12.00 %		NV	11.00 %		NV	17.00 %		NV
% SOLIDS	81.60 % SOLIDS		NV				88.20 % SOLIDS		NV				82.60 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061420	061429	061434	061422	061427
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P47	P1P48	P1P48	P1P49	P1P49
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	16-MAY-91	17-MAY-91	17-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	481163.1	481258.9	481258.9	481261	481261
EAST COORDINATE:	1379867.6	1380020.3	1380020.3	1379945.3	1379945.3
QA TYPE:	NORMAL	EXCAVATED	NORMAL	EXCAVATED	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	15.00 %		NV	16.00 %		NV	14.00 %		NV	18.00 %		NV
% SOLIDS				85.40 % SOLIDS		NV				85.80 % SOLIDS		NV			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061420	061429	061434	061422	061427
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P47	P1P48	P1P48	P1P49	P1P49
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	16-MAY-91	17-MAY-91	17-MAY-91	16-MAY-91	16-MAY-91
NORTH COORDINATE:	481163.1	481258.9	481258.9	481261	481261
EAST COORDINATE:	1379867.6	1380020.3	1380020.3	1379945.3	1379945.3
QA TYPE:	NORMAL	EXCAVATED	NORMAL	EXCAVATED	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	15.00 %		NV	16.00 %		NV	14.00 %		NV	18.00 %		NV
% SOLIDS				85.40 % SOLIDS		NV				85.80 % SOLIDS		NV			

000654

8704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061394	061399	061373	061378	061352
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P50	P1P50	P1P51	P1P51	P1P52
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	15-MAY-91	15-MAY-91	15-MAY-91	15-MAY-91	14-MAY-91
NORTH COORDINATE:	481263	481263	481358.9	481358.9	481360.9
EAST COORDINATE:	1379870.4	1379870.4	1380023	1380023	1379948.1
QA TYPE:	EXCAVATED	NORMAL	NORMAL	NORMAL	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	16.00 %		NV	21.00 %		NV	11.00 %		NV	15.00 %		NV
% SOLIDS	86.20 % SOLIDS		NV				78.90 % SOLIDS		NV				84.80 % SOLIDS		NV

000652

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061387	061392	061380	061385	061443
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P55	P1P55	P1P56	P1P56	P1P57
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	15-MAY-91	15-MAY-91	15-MAY-91	15-MAY-91	17-MAY-91
NORTH COORDINATE:	481460	481460	481462.1	481462.1	481558
EAST COORDINATE:	1379983	1379983	1379908	1379908	1380060.7
QA TYPE:	EXCAVATED	NORMAL	EXCAVATED	NORMAL	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	18.00 %		NV	16.00 %		NV	13.00 %		NV	9.00 % MOISTURE		NV	13.00 %		NV
% SOLIDS	82.10 % SOLIDS		NV				87.40 % SOLIDS		NV				87.40 % SOLIDS		NV

000653

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061448	061366	061371	061347	061350
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P57	P1P58	P1P58	P1P59	P1P59
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	0-.5
DATE COLLECTED:	17-MAY-91	15-MAY-91	15-MAY-91	14-MAY-91	14-MAY-91
NORTH COORDINATE:	481558	481560	481560	481562	481562
EAST COORDINATE:	1380060.7	1379985.7	1379985.7	1379910.7	1379910.7
QA TYPE:	NORMAL	EXCAVATED	NORMAL	EXCAVATED	EXCAVATED
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	10.00 %		NV	9.00 % MOISTURE		NV	10.00 %		NV	10.00 %		NV
% SOLIDS				90.00 % SOLIDS		NV				89.80 % SOLIDS		NV			

000654

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061463	061450	061455	061465	061470
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P60	P1P61	P1P61	P1P62	P1P62
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	18-MAY-91	17-MAY-91	17-MAY-91	18-MAY-91	18-MAY-91
NORTH COORDINATE:	481657.9	481659.9	481659.9	481662	481662
EAST COORDINATE:	1380063.4	1379988.4	1379988.4	1379913.5	1379913.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	R-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	23.00 %		NV	8.00 % MOISTURE		NV	8.00 % MOISTURE		NV	13.00 %		NV	10.00 %		NV
% SOLIDS				92.10 % SOLIDS		NV				87.00 % SOLIDS		NV			

000655

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061479	061484	061472	061477	061504
TASK:	04.04	04.04	04.04	04.04	04.04
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	P1P63	P1P63	P1P64	P1P64	P1P65
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	19-MAY-91	19-MAY-91	19-MAY-91	19-MAY-91	02-JUN-91
NORTH COORDINATE:	481860.8	481860.8	481862.6	481862.6	481975.8
EAST COORDINATE:	1380036.8	1380036.8	1379972.8	1379972.8	1380039.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	DL-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	16.00 %		NV	13.00 %		NV	4.00 % MOISTURE		NV	15.00 %		NV
% SOLIDS	88.70 % SOLIDS		NV				87.10 % SOLIDS		NV				85.00 % SOLIDS		NV

000656

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061505	061506	061507	UST60605	UST60607
TASK:	04.04	04.04	04.04	UST	UST
LAB:	IT	IT	IT	NET	NET
WELL OR BORING NUMBER:	P1P65	P1P66	P1P66	US3-1 (EM-2119)	US3-4 (EM-2121)
DEPTH:	1.5-2	0-.5	1.5-2	15-0	4-0
DATE COLLECTED:	02-JUN-91	02-JUN-91	02-JUN-91	29-NOV-90	29-NOV-90
NORTH COORDINATE:	481975.8	481977.5	481977.5	481097	481107
EAST COORDINATE:	1380039.9	1379976	1379976	1381331	1381331
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	7.00 % MOISTURE		NV	13.00 %		NV						
% SOLIDS				92.60 % SOLIDS		NV									
TPH										1270.00 MG/KG		NV	2160.00 MG/KG		NV

000657

8704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	UST60606	UST62584	UST62585	UST62586	UST28256
TASK:	UST	UST	UST	UST	UST
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	US3-5 (EM-2120)	US6-2 (EM-2178)	US6-3 (EM-2179)	US6-4 (EM-2180)	USSO-041890-1
DEPTH:	2-0	10-0	4-0	1-0	-
DATE COLLECTED:	29-NOV-90	14-DEC-90	14-DEC-90	14-DEC-90	18-APR-90
NORTH COORDINATE:	481107	480992	480990	480988	479833
EAST COORDINATE:	1381336	1381140	1381145	1381136	1381595
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TPH	23600.00 MG/KG		NV	10.00 MG/KG		UNV	10.00 MG/KG		UNV	10.00 MG/KG		UNV	2600.00 MG/KG		NV

000658

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	UST28257	UST28258	UST28259	UST28260	UST28261
TASK:	UST	UST	UST	UST	UST
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	USSO-041890-2	USSO-041890-3	USSO-041890-4	USSO-041890-5	USSO-041890-6
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-APR-90	18-APR-90	18-APR-90	18-APR-90	18-APR-90
NORTH COORDINATE:	479833	479833	479833	479833	479833
EAST COORDINATE:	1381595	1381595	1381595	1381595	1381595
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TPH	190.00 MG/KG		NV	250.00 MG/KG		NV	1100.00 MG/KG		NV	350.00 MG/KG		NV	140.00 MG/KG		NV

000659

570.4

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	UST28262	UST28263	UST61671	UST61672	UST61673
TASK:	UST	UST	UST	UST	UST
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	USSO-041990-1	USSO-041990-2	UST-10-1	UST-10-2	UST-10-5
DEPTH:	-	-	10-10.5	10-10.5	10-10.5
DATE COLLECTED:	18-APR-90	18-APR-90	07-DEC-90	07-DEC-90	07-DEC-90
NORTH COORDINATE:	479833	479833	479923.319	479905.737	479896.258
EAST COORDINATE:	1381595	1381595	1381522.07	1381520.90	1381504.76
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TPH	3300.00 MG/KG		NV	760.00 MG/KG		NV	61.00 MG/KG		NV	10.00 MG/KG		UNV	10.00 MG/KG		UNV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	UST62582	UST62581	UST62583	UST62578	UST62579
TASK:	UST	UST	UST	UST	UST
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	UST-11-1	UST-12-1	UST-12-2	UST-13-3	UST-13-4
DEPTH:	10-10.5	10-10.5	10-10.5	2-2.5	1.5-2
DATE COLLECTED:	13-DEC-90	13-DEC-90	13-DEC-90	13-DEC-90	13-DEC-90
NORTH COORDINATE:	480825.410	480832.489	480832.678	480792.039	480771.127
EAST COORDINATE:	1380353.76	1380353.82	1380369.52	1380393.56	1380393.65
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TPH	1410.00 MG/KG		NV	374.00 MG/KG		NV	1810.00 MG/KG		NV	85.00 MG/KG		NV	979.00 MG/KG		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	UST62580	UST62572	UST62573	UST62574	UST62575
TASK:	UST	UST	UST	UST	UST
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	UST-13-6	UST-8-1	UST-8-2	UST-8-4	UST-9-1
DEPTH:	4-4.5	10-10.5	10-10.5	4-4.5	10-10.5
DATE COLLECTED:	13-DEC-90	13-DEC-90	13-DEC-90	13-DEC-90	13-DEC-90
NORTH COORDINATE:	480770.784	479932.500	479947.434	479940.167	479913.125
EAST COORDINATE:	1380398.60	1381473.26	1381473.27	1381475.42	1381474.93
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TPH	588.00 MG/KG		NV	285.00 MG/KG		NV	287.00 MG/KG		NV	56.00 MG/KG		NV	656.00 MG/KG		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	UST62576	UST62577	UST28275	UST28276	UST28277
TASK:	UST	UST	UST	UST	UST
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	UST-9-2	UST-A-1	USTC-041890-1	USTC-041890-2	USTC-041890-3
DEPTH:	10-10.5	2-2.5	-	-	-
DATE COLLECTED:	13-DEC-90	13-DEC-90	18-APR-90	18-APR-90	18-APR-90
NORTH COORDINATE:	479904.603	479925.484	479833	479833	479833
EAST COORDINATE:	1381472.72	1381487.32	1381595	1381595	1381595
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-UNF	NONE-UNF	NONE-UNF

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
TPH	519.00 MG/KG		NV	19.00 MG/KG		NV	26.00 MG/L		NV	220.00 MG/L		NV	160.00 MG/L		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061002	061007	061065	061070	061072
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA1	WPA1	WPA10	WPA10	WPA11
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	18-APR-91	18-APR-91	22-APR-91	22-APR-91	21-APR-91
NORTH COORDINATE:	482447	482447	481144.8	481144.8	481044.9
EAST COORDINATE:	1377970.4	1377970.4	1378034.8	1378034.8	1378032.1
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	19.00 %		NV	14.00 %		NV	11.00 %		NV	15.00 %		NV	14.00 %		NV
% SOLIDS	80.60 % SOLIDS		NV				88.70 % SOLIDS		NV				86.40 % SOLIDS		NV

000664

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061077	061079	061084	061086	061091
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA11	WPA12	WPA12	WPA13	WPA13
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	21-APR-91	21-APR-91	21-APR-91	21-APR-91	21-APR-91
NORTH COORDINATE:	481044.9	481042.1	481042.1	481039.4	481039.4
EAST COORDINATE:	1378032.1	1378132	1378132	1378232	1378232
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	DL-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	14.00 %		NV	12.00 %		NV	21.00 %		NV	11.00 %		NV	12.00 %		NV
% SOLIDS				87.70 % SOLIDS		NV				89.40 % SOLIDS		NV			

000685

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061093	061098	061100	061105	061112
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA14	WPA14	WPA15	WPA15	WPA16
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	1.5-2
DATE COLLECTED:	25-APR-91	25-APR-91	25-APR-91	25-APR-91	25-APR-91
NORTH COORDINATE:	481033.9	481033.9	481028.5	481028.5	481128.4
EAST COORDINATE:	1378431.9	1378431.9	1378631.8	1378631.8	1378634.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	11.00 %		NV	17.00 %		NV	20.00 %		NV	21.00 %		NV	13.00 %		NV
% SOLIDS	89.40 % SOLIDS		NV				79.60 % SOLIDS		NV						

000666

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061114	061119	061121	061515	061126
TASK:	04.01	04.01	04.01	04.04	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA17	WPA17	WPA18	WPA18	WPA18
DEPTH:	0-.5	1.5-2	0-.5	.5-1	1.5-2
DATE COLLECTED:	25-APR-91	25-APR-91	27-APR-91	25-JUL-91	27-APR-91
NORTH COORDINATE:	481125.7	481125.7	480836.8	480836.8	480836.8
EAST COORDINATE:	1378734.5	1378734.5	1378326.4	1378326.4	1378326.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	10.00 %		NV	15.00 %		NV	8.00 % MOISTURE		NV	2.00 % MOISTURE		NV	6.00 % MOISTURE		NV
% SOLIDS	89.60 % SOLIDS		NV				92.40 % SOLIDS		NV						

000667

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061512	061514	061128	061133	061009
TASK:	04.04	04.04	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA18	WPA18	WPA19	WPA19	WPA2
DEPTH:	1.5-2	1.3-1.8	0-.5	1.5-2	0-.5
DATE COLLECTED:	24-JUL-91	25-JUL-91	27-APR-91	27-APR-91	19-APR-91
NORTH COORDINATE:	480836.8	480836.8	480636.9	480636.9	482344.3
EAST COORDINATE:	1378326.4	1378326.4	1378321	1378321	1378067.6
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	4.00 % MOISTURE		NV	4.00 % MOISTURE		NV	8.00 % MOISTURE		NV	11.00 %		NV	8.00 % MOISTURE		NV
% SOLIDS							89.40 % SOLIDS		NV				91.50 % SOLIDS		NV

000668

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061014	061135	061140	061142	061147
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA2	WPA20	WPA20	WPA21	WPA21
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	19-APR-91	26-APR-91	26-APR-91	26-APR-91	26-APR-91
NORTH COORDINATE:	482344.3	480437	480437	480221.7	480221.7
EAST COORDINATE:	1378067.6	1378315.5	1378315.5	1378315.9	1378315.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	12.00 %		NV	19.00 %		NV	13.00 %		NV	13.00 %		NV	11.00 %		NV
% SOLIDS				80.90 % SOLIDS		NV				87.00 % SOLIDS		NV			

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061150	061310	061163	061016	061021
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA22	WPA23	WPA24	WPA3	WPA3
DEPTH:	0-.5	0-.5	0-.5	0-.5	1.5-2
DATE COLLECTED:	21-APR-91	27-APR-91	27-APR-91	19-APR-91	19-APR-91
NORTH COORDINATE:	480037.1	480240.1	480228.8	482244.3	482244.3
EAST COORDINATE:	1378304.6	1378407	1378609.9	1378064.4	1378064.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	8.00 % MOISTURE		NV	17.00 %		NV	10.00 %		NV	12.00 %		NV
% SOLIDS	85.30 % SOLIDS		NV	82.10 % SOLIDS		NV	83.30 % SOLIDS		NV	89.80 % SOLIDS		NV			

000670

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061205	061210	061212	061217	061220
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA30	WPA30	WPA31	WPA31	WPA32
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	24-APR-91	24-APR-91	24-APR-91	24-APR-91	23-APR-91
NORTH COORDINATE:	480423.3	480423.3	480473.9	480473.9	480520.5
EAST COORDINATE:	1378815.3	1378815.3	1378750.2	1378750.2	1378918
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	30.00 %		NV	15.00 %		NV	16.00 %		NV	13.00 %		NV	18.00 %		NV
% SOLIDS	70.00 % SOLIDS		NV				83.60 % SOLIDS		NV				81.80 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061225	061233	061238	061240	061245
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA32	WPA34	WPA34	WPA35	WPA35
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	26-APR-91	25-APR-91	25-APR-91	25-APR-91	25-APR-91
NORTH COORDINATE:	480520.5	480603.4	480603.4	480725.9	480725.9
EAST COORDINATE:	1378918	1378836.7	1378836.7	1378723.5	1378723.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	20.00 %		NV	13.00 %		NV	18.00 %		NV	10.00 %		NV	13.00 %		NV
% SOLIDS				87.40 % SOLIDS		NV				89.60 % SOLIDS		NV			

000672

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061247	061252	061254	061258	061260
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA36	WPA36	WPA37	WPA37	WPA38
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	23-APR-91	23-APR-91	23-APR-91	23-APR-91	23-APR-91
NORTH COORDINATE:	480695.4	480695.4	480828.6	480828.6	482108.8
EAST COORDINATE:	1378922.7	1378922.7	1378626.3	1378626.3	1379361.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	DL-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	17.00 %		NV	17.00 %		NV	14.00 %		NV	9.00 % MOISTURE		NV	17.00 %		NV
% SOLIDS	82.60 % SOLIDS		NV				86.50 % SOLIDS		NV				82.70 % SOLIDS		NV

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061266	061268	061273	061023	061028
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA38	WPA39	WPA39	WPA4	WPA4
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	23-APR-91	23-APR-91	23-APR-91	20-APR-91	20-APR-91
NORTH COORDINATE:	482108.8	482106.1	482106.1	482044.4	482044.4
EAST COORDINATE:	1379361.5	1379461.5	1379461.5	1378059.4	1378059.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	13.00 %		NV	17.00 %		NV	19.00 %		NV	20.00 %		NV	14.00 %		NV
% SOLIDS				82.80 % SOLIDS		NV				80.50 % SOLIDS		NV			

000674

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061275	061280	061282	061287	061289
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA40	WPA40	WPA41	WPA41	WPA42
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	22-APR-91	22-APR-91	22-APR-91	22-APR-91	22-APR-91
NORTH COORDINATE:	482006.1	482006.1	481903.4	481903.4	481806.2
EAST COORDINATE:	1379458.8	1379458.8	1379556	1379556	1379453.3
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	16.00 %		NV	15.00 %		NV	14.00 %		NV	14.00 %		NV	19.00 %		NV
% SOLIDS	84.30 % SOLIDS		NV				85.50 % SOLIDS		NV				81.30 % SOLIDS		NV

000675

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061294	061295	061301	061303	061308
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA42	WPA43	WPA43	WPA44	WPA44
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	1.5-2
DATE COLLECTED:	22-APR-91	22-APR-91	22-APR-91	23-APR-91	23-APR-91
NORTH COORDINATE:	481806.2	481709	481709	481606.3	481606.3
EAST COORDINATE:	1379453.3	1379350.6	1379350.6	1379447.8	1379447.8
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	20.00 %		NV	10.00 %		NV	20.00 %		NV	8.00 % MOISTURE		NV
% SOLIDS				80.40 % SOLIDS		NV				79.90 % SOLIDS		NV			

000376

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061030	061035	061037	061042	061044
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA5	WPA5	WPA6	WPA6	WPA7
DEPTH:	0-.5	1.5-2	0-.5	1.5-2	0-.5
DATE COLLECTED:	20-APR-91	20-APR-91	20-APR-91	20-APR-91	22-APR-91
NORTH COORDINATE:	481844.5	481844.5	481650.1	481650.1	481450.2
EAST COORDINATE:	1378053.9	1378053.9	1377848.6	1377848.6	1377843.1
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	21.00 %		NV	23.00 %		NV	10.00 %		NV	16.00 %		NV	13.00 %		NV
% SOLIDS	78.60 % SOLIDS		NV				89.80 % SOLIDS		NV				86.60 % SOLIDS		NV

000677

5704

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	061049	061050	061056	061058	075505
TASK:	04.01	04.01	04.01	04.01	04.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	WPA7	WPA8	WPA8	WPA9	WPS-E-5
DEPTH:	1.5-2	0-.5	1.5-2	0-.5	0-.5
DATE COLLECTED:	22-APR-91	22-APR-91	22-APR-91	21-APR-91	10-NOV-91
NORTH COORDINATE:	481450.2	481475.5	481475.5	481147.6	481119.49
EAST COORDINATE:	1377843.1	1377937.6	1377937.6	1377934.8	1378025.57
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	NONE-NA	NONE-NA

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	15.00 %		NV	8.00 % MOISTURE		NV	13.00 %		NV	17.00 %		NV	9.00 % MOISTURE		NV
% SOLIDS				79.10 % SOLIDS		NV				82.70 % SOLIDS		NV	91.50 % SOLIDS		NV

C00578

FERNALD ANALYTICAL REPORT
SOILS - GEOTECHNICAL AND MISC. DATA

SAMPLE NUMBER:	075506	075507	075508		
TASK:	04.01	04.01	04.01		
LAB:	IT	IT	IT		
WELL OR BORING NUMBER:	WPS-F-7	WPS-G-22	WPS-H-15		
DEPTH:	0-.5	0-.5	0-.5	-	-
DATE COLLECTED:	10-NOV-91	10-NOV-91	10-NOV-91		
NORTH COORDINATE:	481123.96	481077.57	481130.62		
EAST COORDINATE:	1378033.69	1378081.8	1378091.99		
QA TYPE:	NORMAL	NORMAL	NORMAL		
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-NA	NONE-NA	-	-

	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
% MOISTURE	7.00 % MOISTURE		NV	9.00 % MOISTURE		NV	6.00 % MOISTURE		NV						
% SOLIDS	93.30 % SOLIDS		NV	90.80 % SOLIDS		NV	92.40 % SOLIDS		NV						

5704

I.1 Type 1 Wells

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003215			003418			003725			003925			066816		
TASK:		3.2.4			3.2.4			3.2.4			3.2.4			9.27		
LAB:		IT			IT/RSL			IT			IT			IT		
WELL OR BORING NUMBER:		1008			1008			1008			1008			1008		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		20-MAY-88			09-AUG-88			20-NOV-88			05-FEB-89			05-JAN-90		
NORTH COORDINATE:		480660.43			480660.43			480660.43			480660.43			480660.43		
EAST COORDINATE:		1378925.89			1378925.89			1378925.89			1378925.89			1378925.89		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1000		U	0.3000		U	0.2600		J	0.1000		U			
CHLORIDE	MG/L	3.9000		-	8.0000		-	0.5000		-	8.0000		-			
FLUORIDE	MG/L	0.9000		-	1.2000		-	0.8800		-	0.7800		J			
NITRATE	MG/L	0.1000		-	0.2300		J	0.1000		U	0.1000		UJ			
PHENOLS	MG/L	0.0100		-	0.0500		U	0.0100		U	0.0100		UJ			
PHOSPHORUS	MG/L	0.1300		-				0.1470		-	0.0300		J			
SULFATE	MG/L	17.0000		-	28.0000		J	150.0000		-	19.6000		-			
TOTAL KJELDAHL NITROGEN	MG/L				15.0000		U	0.6000		J	0.1970		J			
TOTAL ORGANIC HALIDES	MG/L							0.0500		U	0.0500		U			
TOTAL ORGANIC NITROGEN	MG/L	0.3000		-	0.3000		U	0.3400		J	0.1970		J			
INORGANICS																
ALUMINUM	MG/L				0.2000		U									
ANTIMONY	MG/L				0.0600		U									
ARSENIC	MG/L	0.2000		U	0.0100		U	0.0020		UJ	0.0030		-			
BARIUM	MG/L	0.3180		-	0.3000		-	0.3340		-	0.3730		-			
BERYLLIUM	MG/L				0.0050		U									
CADMIUM	MG/L	0.0160		-	0.0050		U	0.0040		-	0.0080		-			
CALCIUM	MG/L	83.5000		-	89.0000		-	84.5000		-	89.8000		-			
CHROMIUM	MG/L	0.0200		U	0.0100		U	0.0200		U	0.0260		-			
COBALT	MG/L				0.0500		U									
COPPER	MG/L	0.0100		U	0.0300		U	0.0100		U	0.0150		-			
IRON	MG/L	0.0600		-	0.1000		U	0.4130		-	0.0430		-			
LEAD	MG/L	0.0500		U	0.0050		U	0.0080		J	0.0020		UJ			
MAGNESIUM	MG/L	35.8000		-	37.0000		-	35.8000		-	40.0000		-			
MANGANESE	MG/L	0.2780		-	0.2500		-	0.2610		-	0.1960		-			
MERCURY	MG/L	0.0002		U	0.0003		U	0.0002		U	0.0025		-			
MOLYBDENUM	MG/L	0.0200		-	0.0500		U	0.0430		-	0.0200		U			
NICKEL	MG/L	0.0200		U	0.0400		U	0.0200		U	0.0200		U			

000680

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003215			003418			003725			003925			066816		
LAB:		IT			IT/RSL			IT			IT					
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L	1.0200		-	5.0000		U	1.0100		-	0.9810		J			
SELENIUM	MG/L	0.2000		U	0.0050		U	0.0020		UJ	0.0020		UJ			
SILVER	MG/L	0.0100		U	0.0100		U	0.0005		U	0.0005		U			
SODIUM	MG/L	8.9600		-	12.0000		-	9.5800		-	9.3700		-			
THALLIUM	MG/L				0.5000		U									
VANADIUM	MG/L				0.0500		U									
ZINC	MG/L				0.0400		-									
RADIONUCLIDES																
URANIUM-238	PCI/L	3.6000	.5	R	5.6000	.9	-	2.4000	.7	J	1.9000	.5	-	4.4900	.93	-
URANIUM, TOTAL	UG/L	14.00003		J	13.0000	2	-	6.0000	1	J	6.0000	1	-	14.6000	1.6	J
URANIUM-234	PCI/L	2.7000	.4	R	4.5000	.7	-	1.0000		UJ	1.2000	.4	-	3.8600	.84	R
THORIUM-230	PCI/L	1.0000		R	1.3000	.5	J	1.0000		UJ	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		U	1.0000	.4	UJ	1.0000		UJ	1.0000		U			
URANIUM-235/236	PCI/L	1.0000		R	1.0000		U	1.0000		UJ	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		R	1.3000	.5	J	1.0000		UJ	1.0000		U			
THORIUM, TOTAL	UG/L				12.0000	4	J	4.0000		U	3.0000		U			
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		UJ	3.0000		UJ			
THORIUM-228	PCI/L	1.0000		R	1.4000	.5	J	1.0000		UJ	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	1.0000		UJ	1.0000		U			
PLUTONIUM-239/240	PCI/L	1.0000		R	1.0000		U	1.0000		UJ	1.0000		UJ			
PLUTONIUM-238	PCI/L	1.0000		R	1.0000		U	1.0000		UJ	1.0000		UJ			
STRONTIUM-90	PCI/L	5.0000		UJ	5.0000		U	5.0000		UJ	5.0000		U			
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		UJ	30.0000		UJ	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R	150.0000		R			
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R	20.0000		R			
SEMIVOLATILES																
PHENOL	MG/L				50.0000		-									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_1	EMGW_SYSGEN_2	EMGW_SYSGEN_3	GW930119-1	GW930413-9
TASK:	GWMON	GWMON	GWMON	RCRA	50.03.23
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	1008	1008	1008	1008	1008
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-APR-90	13-AUG-90	24-OCT-90	19-JAN-93	13-APR-93
NORTH COORDINATE:	480660.43	480660.43	480660.43	480660.43	480660.43
EAST COORDINATE:	1378925.89	1378925.89	1378925.89	1378925.89	1378925.89
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							323.0000		NV	319.0000		NV	312.0000		-
ALLYL CHLORIDE	UG/L										5.0000		UNV			
AMMONIA	MG/L							0.0900		NV	0.0500		NV	0.0200		UR
BICARBONATE ALKALINITY	MG/L										390.0000		NV	412.0000		-
CARBONATE ALKALINITY	MG/L										3.0000		UNV	3.0000		U
CHLORIDE	MG/L	9.0000		NV	11.0000		NV	10.0000		NV	18.0000		NV	18.0000		-
FLUORIDE	MG/L				1.0200		NV	0.7900		NV	0.7700		NV	0.7300		-
NITRATE	MG/L										0.1500		NV			
NITRATE, AS NITROGEN	MG/L	0.1800		NV	0.0200		UNV									
NITRATE/NITRITE	MG/L							0.1200		NV				0.0900		-
NITRITE, AS NITROGEN	MG/L										0.0200		UNV			
PH	STD							7.3500		NV	7.4100		NV	7.4200		-
PHENOLS	MG/L				0.0050		UNV	0.0050		NV	0.0050		UNV	0.0100		U
PHOSPHORUS	MG/L							0.7800		NV	0.1000		UNV	0.1000		UR
SPECIFIC CONDUCTIVITY	UMHOS/CM							627.0000		NV	747.0000		NV	664.0000		-
SULFATE	MG/L	24.0000		NV	42.0000		NV	36.0000		NV	35.0000		NV	32.0000		-
TOTAL DISSOLVED SOLIDS	MG/L							432.0000		NV	395.0000		NV	391.0000		-
TOTAL KJELDAHL NITROGEN	MG/L													0.7200		-
TOTAL ORGANIC CARBON	MG/L	1.0000		NV	4.0000		NV	7.0000		NV	2.0000		NV	10.0000		J
TOTAL ORGANIC HALIDES	MG/L										0.0100		UNV			
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0440		NV				0.0100		U
TOTAL ORGANIC NITROGEN	MG/L													0.7200		-
TOTAL SOLIDS	MG/L										419.0000		NV	418.0000		-
INORGANICS																
ALUMINUM	MG/L				9.4500		NV				0.2000		UNV	0.1380		U
ANTIMONY	MG/L				0.0250		UNV				0.0200		UNV	0.0450		U
ARSENIC	MG/L				0.0090		NV				0.0050		UNV	0.0020		U
BARIUM	MG/L				0.2210		NV				0.5000		NV	0.4370		-

000682

5704

SAMPLE NUMBER:		EMGW_SYSGEN_1			EMGW_SYSGEN_2			EMGW_SYSGEN_3			GW930119-1			GW930413-9		
LAB:					NET						NET			NET		
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
BERYLLIUM	MG/L				0.0100		UNV				0.0050		UNV	0.0010		U
CADMIUM	MG/L				0.0010		UNV				0.0010		UNV	0.0030		U
CALCIUM	MG/L				109.0000		NV				89.0000		NV	85.6000		-
CHROMIUM	MG/L				0.0050		UNV				0.0059		NV	0.0050		U
COBALT	MG/L				0.0250		UNV				0.0050		UNV	0.0080		U
COPPER	MG/L				0.0250		UNV				0.0200		UNV	0.0070		U
CYANIDE	MG/L							0.0050		UNV	0.0050		UNV	0.0100		UJ
IRON	MG/L				0.0500		UNV				0.1000		UNV	0.2770		U
LEAD	MG/L				0.0060		NV				0.0030		UNV	0.0014		UJ
MAGNESIUM	MG/L				33.2000		NV				39.0000		NV	35.7000		-
MANGANESE	MG/L				0.2950		NV				0.0180		NV	0.0177		-
MERCURY	MG/L				0.0002		UNV				0.0002		UNV	0.0002		U
MOLYBDENUM	MG/L				0.0250		UNV				0.0120		NV			
NICKEL	MG/L				0.0050		UNV				0.0100		UNV	0.0200		U
POTASSIUM	MG/L				1.1400		NV				1.1000		NV	1.0800		-
SELENIUM	MG/L				0.0025		UNV				0.0050		UNV	0.0010		UJ
SILVER	MG/L				0.0010		UNV				0.0010		UNV	0.0070		U
SODIUM	MG/L				29.6000		NV				10.0000		NV	9.4500		-
THALLIUM	MG/L				0.0100		UNV				0.0100		UNV	0.0020		U
VANADIUM	MG/L				0.0500		UNV				0.0500		UNV	0.0030		U
ZINC	MG/L				0.0270		NV				0.0200		UNV	0.0050		U
MISC																
1,2,3-TRICHLOROPROPANE	UG/L										5.0000		UNV			
1,2-DIBROMO-3-CHLOROPROPANE	UG/L										2.0000		UNV			
1,2-DIBROMOETHANE	UG/L										2.0000		UNV			
2-CHLORO-1,3-BUTADIENE	UG/L										5.0000		UNV			
ACROLEIN	UG/L										50.0000		UNV			
ACROLEIN	UG/L										50.0000		UNV			
ACRYLONITRILE	UG/L										50.0000		UNV			
DICHLORODIFLUOROMETHANE	UG/L										10.0000		UNV			
ETHYL CYANIDE	UG/L										20.0000		UNV			
ETHYL METHACRYLATE	UG/L										5.0000		UNV			
IODOMETHANE	UG/L										5.0000		UNV			
METHACRYLONITRILE	UG/L										5.0000		UNV			
METHYL METHACRYLATE	UG/L										5.0000		UNV			
PENTACHLOROETHANE	UG/L										5.0000		UNV			
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV				1.0000		UNV	1.0000		UNV			
TRANS-1,4-DICHLORO-2-BUTENE	UG/L										20.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.8000		NV	12.8000		NV	3.3300		NV				0.9000	.3	J
URANIUM, TOTAL	UG/L	7.1700		NV	31.1000		NV	7.3400		NV	1.2000		NV	2.1000	.1	J

000583

SAMPLE NUMBER:		EMGW_SYSGEN_1			EMGW_SYSGEN_2			EMGW_SYSGEN_3			GW930119-1			GW930413-9		
LAB:		IT			IT			IT			CORE			CORE		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L	1.8900		NV	12.5000		NV	2.7700		NV				0.8000	.2	J
THORIUM-230	PCI/L	0.9650		NV	0.5700		UNV	1.0000		NV	0.5000	.2	NV	0.2000	.2	UJ
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000	.4	UNV	1.6000	.3	J
URANIUM-235/236	PCI/L	0.4100		UNV	1.7700		NV	0.2000		UNV				0.2000	.2	UJ
THORIUM-232	PCI/L	0.8270		NV	0.5700		UNV	0.5450		NV	0.6000	.2	NV	0.2000	.1	UJ
THORIUM, TOTAL	UG/L	7.4600		NV	5.2000		UNV	4.9200		NV	5.1000		NV	0.9120	.1	NV
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV	3.0000		UNV	3.0000	1.2	UNV	3.0000	.9	U
THORIUM-228	PCI/L	1.1700		NV	0.8090		NV	1.6600		NV	0.4000	.2	NV	0.2000	.1	UJ
TECHNETIUM-99	PCI/L													15.0000	7.9	U
GROSS ALPHA	PCI/L	42.9000	0.0196	NV				25.6000		NV	1.1000	1.5	NV	3.6000	1.9	UNV
GROSS BETA	PCI/L	72.9000	0.0223	NV				32.4000		NV	4.1000	1.8	NV	3.0000	1.8	UNV
URANIUM-235	PCI/L	0.0670		NV												
URANIUM-236	PCI/L	0.0100		NV												
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L	1.0000		UNV												
1,4-DICHLOROBENZENE	UG/L	1.0000		UNV												
2-CHLOROETHYLVINYL ETHER	UG/L	60.0000		UNV				10.0000		UNV	10.0000		UNV			
CUMENE	UG/L										1.0000		UNV			
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L										1.0000		UNV			
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	1.0000		UNV				10.0000		U
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
2-BUTANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ
2-HEXANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
ACETONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U
CARBON DISULFIDE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
CHLOROETHANE	UG/L							1.0000		UNV	10.0000		UNV	10.0000		U
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U

000689

6704

SAMPLE NUMBER:		EMGW_SYSGEN_1			EMGW_SYSGEN_2			EMGW_SYSGEN_3			GW930119-1			GW930413-9		
LAB:		NET			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U
STYRENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRICHLOROFLUOROMETHANE	UG/L	1.0000		UNV							1.0000		UNV			
VINYL ACETATE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV			
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U
XYLENES, TOTAL	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ

000685

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003169			003446			003716			003915			066817		
TASK:		3.2.4			3.2.4			3.2.4			3.2.4			9.27		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1010			1010			1010			1010			1010		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		09-MAY-88			08-AUG-88			04-DEC-88			13-MAR-89			06-JAN-90		
NORTH COORDINATE:		481452.64			481452.64			481452.64			481452.64			481452.64		
EAST COORDINATE:		1379690.67			1379690.67			1379690.67			1379690.67			1379690.67		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1000		UJ	0.1000		U	0.1000		U	0.3000		U			
CHLORIDE	MG/L	7.9000		-	26.0000		NV	2.0000		R	20.0000		U			
FLUORIDE	MG/L	0.4000		-	2.3000		NV	0.4800		-	0.3000		-			
NITRATE	MG/L	0.1000		U	5.0000		UJ	0.1000		U	0.0200		R			
PHENOLS	MG/L	0.0400		-	0.0100		U	0.0100		U	0.0100		-			
PHOSPHATE	MG/L				5.6000		-									
PHOSPHORUS	MG/L	0.3700		-				0.5590		-	0.0500		-			
SULFATE	MG/L	142.0000		-	110.0000		NV	105.0000		-	79.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L							0.9230		-	0.3000		U			
TOTAL ORGANIC HALIDES	MG/L				0.0500		R	0.0500		U	0.0500		U			
TOTAL ORGANIC NITROGEN	MG/L	0.1000		U	0.3000		-	0.9230		-	0.0000		-			
INORGANICS																
ALUMINUM	MG/L	0.0272		-												
ANTIMONY	MG/L	0.0467		U												
ARSENIC	MG/L	0.0020		-	0.0100		R	0.0200		R	0.0030		UJ			
BARIUM	MG/L	0.0799		-	0.2000		R	0.0870		-	0.0560		J			
BERYLLIUM	MG/L	0.0024		U												
CADMIUM	MG/L	0.0007		U	0.0050		R	0.0020		U	0.0050		UJ			
CALCIUM	MG/L	155.0000		-	150.0000		R	158.0000		-	150.0000		J			
CHROMIUM	MG/L	0.0017		U	0.0100		R	0.0200		U	0.0300		J			
COBALT	MG/L	0.0052		U												
COPPER	MG/L	0.0067		U	0.0300		R	0.0100		-	0.0100		J			
CYANIDE	MG/L	0.0100		UNV												
IRON	MG/L	0.1060		-	0.2000		R	4.8900		J	1.3000		J			
LEAD	MG/L	0.0021		U	0.0050		R	0.0230		J						
MAGNESIUM	MG/L	43.1000		-	42.0000		R	45.9000		-	42.0000		J			
MANGANESE	MG/L	0.3500		-	0.1300		R	0.1810		-	0.0910		J			
MERCURY	MG/L	0.0002		UNV	0.0002		R	0.0002		U	0.0002		UJ			

SAMPLE NUMBER:		003169		003446		003716		003915		066817	
LAB:		IT		IT		IT		IT			
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
INORGANICS											
MOLYBDENUM	MG/L	0.0333	U	0.0500	R	0.0200	UJ	0.0200	J		
NICKEL	MG/L	0.0188	-	0.0400	R	0.0200	U	0.0300	UJ		
POTASSIUM	MG/L	1.1700	-	5.0000	R	3.4100	-	1.0000	J		
SELENIUM	MG/L	0.0018	U	0.0050	R	0.0040	R	0.0050	UJ		
SILVER	MG/L	0.0043	U	0.0100	R	0.0200	U	0.0100	UJ		
SODIUM	MG/L	12.2000	-	14.0000	R	14.6000	-	16.0000	J		
THALLIUM	MG/L	0.0041	UJ								
VANADIUM	MG/L	0.0034	U								
ZINC	MG/L	0.0125	-								
ORGANOPHOSPHORUS											
AZINPHOSMETHYL	UG/L	5.0000	UJ								
DEMETON	UG/L	1.0000	UJ								
DIAZINON	UG/L	0.5000	UJ								
DISULFOTON	UG/L	0.5000	UJ								
ETHION	UG/L	0.5000	UJ								
MALATHION	UG/L	1.0000	UJ								
METHYL PARATHION	UG/L	1.0000	UJ								
PARATHION	UG/L	0.5000	UJ								
PESTICIDES											
4,4'-DDD	UG/L	1.0000	UJ								
4,4'-DDE	UG/L	1.0000	UJ								
4,4'-DDT	UG/L	1.0000	UJ								
ALDRIN	UG/L	0.0500	UJ								
ALPHA-BHC	UG/L	0.0500	UJ								
ALPHA-CHLORDANE	UG/L	1.0000	UJ								
AROCLOR-1016	UG/L	0.5000	UJ								
AROCLOR-1221	UG/L	0.5000	UJ								
AROCLOR-1232	UG/L	0.5000	UJ								
AROCLOR-1242	UG/L	0.5000	UJ								
AROCLOR-1248	UG/L	0.5000	UJ								
AROCLOR-1254	UG/L	1.0000	UJ								
AROCLOR-1260	UG/L	1.0000	UJ								
BETA-BHC	UG/L	0.0500	UJ								
DELTA-BHC	UG/L	0.0500	UJ								
DIELDRIN	UG/L	1.0000	UJ								
ENDOSULFAN II	UG/L	1.0000	UJ								
ENDOSULFAN SULFATE	UG/L	0.5000	UJ								
ENDOSULFAN-I	UG/L	0.0500	UJ								
ENDRIN	UG/L	1.0000	UJ								
ENDRIN KETONE	UG/L	0.5000	UJ								
GAMMA-BHC (LINDANE)	UG/L	0.0500	UJ								

489000

SAMPLE NUMBER:		003169			003446			003716			003915			066817		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
GAMMA-CHLORDANE	UG/L	0.5000		UJ												
HEPTACHLOR	UG/L	0.0500		UJ												
HEPTACHLOR EPOXIDE	UG/L	0.0500		UJ												
METHOXYCHLOR	UG/L	0.5000		UJ												
TOXAPHENE	UG/L	0.5000		UJ												
RADIONUCLIDES																
URANIUM-238	PCI/L	1.4000	.5	-	2.0000	.4	J	3.3000	.8	J	1.0000		U	1.0000		U
URANIUM, TOTAL	UG/L	5.0000	1	-	4.0000	1	-	10.0000	2	-	2.0000	1	-	1.1200	.13	J
URANIUM-234	PCI/L	1.9000	.6	-	2.0000	.4	J	3.4000	.8	J	1.0000		U	1.0000		R
THORIUM-230	PCI/L	1.0000		U	1.2000	.5	J	1.0000		UJ	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		U	2.3000	.6	R	1.0000		U	1.0000		U			
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		UJ	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		U	1.7000	.5	J	1.0000		UJ	1.0000		U			
THORIUM, TOTAL	UG/L				16.0000	5	J	5.0000		UJ	4.0000		U			
RADIUM-228	PCI/L	3.0000		R	3.0000		U	3.0000		U	3.0000		R			
THORIUM-228	PCI/L	1.0000		U	2.3000	.6	J	1.0000		UJ	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		UJ			
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U	1.0000		UJ	1.0000		U			
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		UJ	1.0000		U			
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		UJ	5.0000		U			
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		UJ	30.0000		U	30.0000		UJ	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R	150.0000		R			
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R	20.0000		R			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		UJ												
1,2-DICHLOROBENZENE	UG/L	10.0000		UJ												
1,3-DICHLOROBENZENE	UG/L	10.0000		UJ												
1,4-DICHLOROBENZENE	UG/L	10.0000		UJ												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		UJ												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		UJ												
2,4-DICHLOROPHENOL	UG/L	10.0000		UJ												
2,4-DIMETHYLPHENOL	UG/L	10.0000		UJ												
2,4-DINITROPHENOL	UG/L	50.0000		UJ												
2,4-DINITROTOLUENE	UG/L	10.0000		UJ												
2,6-DINITROTOLUENE	UG/L	10.0000		UJ												
2-CHLORONAPHTHALENE	UG/L	10.0000		UJ												
2-CHLOROPHENOL	UG/L	10.0000		UJ												
2-METHYLNAPHTHALENE	UG/L	10.0000		UJ												
2-METHYLPHENOL	UG/L	10.0000		UJ												
2-NITROANILINE	UG/L	50.0000		UJ												
2-NITROPHENOL	UG/L	10.0000		UJ												

000688

5704

SAMPLE NUMBER:		003169		003446			003716			003915			066817		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ												
3-NITROANILINE	UG/L	50.0000		UJ												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		UJ												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		UJ												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		UJ												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		UJ												
4-METHYLPHENOL	UG/L	10.0000		UJ												
4-NITROANILINE	UG/L	50.0000		UJ												
4-NITROPHENOL	UG/L	50.0000		UJ												
ACENAPHTHENE	UG/L	10.0000		UJ												
ACENAPHTHYLENE	UG/L	10.0000		UJ												
ANTHRACENE	UG/L	10.0000		UJ												
BENZO(A)ANTHRACENE	UG/L	10.0000		UJ												
BENZO(A)PYRENE	UG/L	10.0000		UJ												
BENZO(B)FLUORANTHENE	UG/L	10.0000		UJ												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		UJ												
BENZO(K)FLUORANTHENE	UG/L	10.0000		UJ												
BENZOIC ACID	UG/L	50.0000		UJ												
BENZYL ALCOHOL	UG/L	10.0000		UJ												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		UJ												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		UJ												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UJ												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		UJ												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		UJ												
CHRYSENE	UG/L	10.0000		UJ												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		UJ												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		UJ												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ												
DIBENZOFURAN	UG/L	10.0000		UJ												
DIETHYL PHTHALATE	UG/L	10.0000		UJ												
DIMETHYL PHTHALATE	UG/L	10.0000		UJ												
FLUORANTHENE	UG/L	10.0000		UJ												
FLUORENE	UG/L	10.0000		UJ												
HEXACHLOROBENZENE	UG/L	10.0000		UJ												
HEXACHLOROBUTADIENE	UG/L	10.0000		UJ												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		UJ												
HEXACHLOROETHANE	UG/L	10.0000		UJ												
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		UJ												
ISOPHORONE	UG/L	10.0000		UJ												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		UJ												
N-NITROSODIPHENYLAMINE	UG/L	10.0000		UJ												
NAPHTHALENE	UG/L	10.0000		UJ												
NITROBENZENE	UG/L	10.0000		UJ												
P-CHLOROANILINE	UG/L	10.0000		UJ												
PENTACHLOROPHENOL	UG/L	50.0000		UJ												

SAMPLE NUMBER:		003169		003446			003716			003915			066817		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PHENANTHRENE	UG/L	10.0000	UJ												
PHENOL	MG/L	10.0000	UJ												
PYRENE	UG/L	10.0000	UJ												
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L	5.0000	UJ												
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	UJ												
1,1,2-TRICHLOROETHANE	UG/L	5.0000	UJ												
1,1-DICHLOROETHANE	UG/L	5.0000	UJ												
1,1-DICHLOROETHENE	UG/L	5.0000	UJ												
1,2-DICHLOROETHANE	UG/L	5.0000	UJ												
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000	UJ												
1,2-DICHLOROPROPANE	UG/L	5.0000	UJ												
2-BUTANONE	UG/L	10.0000	UJ												
2-HEXANONE	UG/L	10.0000	UJ												
4-METHYL-2-PENTANONE	UG/L	10.0000	UJ												
ACETONE	UG/L	10.0000	UJ												
BENZENE	UG/L	5.0000	UJ												
BROMODICHLOROMETHANE	UG/L	5.0000	UJ												
BROMOFORM	UG/L	5.0000	UJ												
BROMOMETHANE	UG/L	10.0000	UJ												
CARBON DISULFIDE	UG/L	5.0000	UJ												
CARBON TETRACHLORIDE	UG/L	5.0000	UJ												
CHLOROBENZENE	UG/L	5.0000	UJ												
CHLOROETHANE	UG/L	10.0000	UJ												
CHLOROFORM	UG/L	5.0000	UJ												
CHLOROMETHANE	UG/L	10.0000	UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	UJ												
DIBROMOCHLOROMETHANE	UG/L	5.0000	UJ												
ETHYLBENZENE	UG/L	5.0000	UJ												
METHYLENE CHLORIDE	UG/L	5.0000	UJ												
STYRENE	UG/L	5.0000	UJ												
TETRACHLOROETHENE	UG/L	5.0000	UJ												
TOLUENE	UG/L	5.0000	UJ												
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	UJ												
TRICHLOROETHENE	UG/L	5.0000	UJ												
VINYL ACETATE	UG/L	10.0000	UJ												
VINYL CHLORIDE	UG/L	10.0000	UJ												
XYLENES, TOTAL	UG/L	5.0000	UJ												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120225			120225F			120227			120227F			120228		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		DATACHEM			DATACHEM			FERMCO			FERMCO			CORE		
WELL OR BORING NUMBER:		1010			1010			1010			1010			1010		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		16-JUN-93			16-JUN-93			16-JUN-93			16-JUN-93			16-JUN-93		
NORTH COORDINATE:		481452.64			481452.64			481452.64			481452.64			481452.64		
EAST COORDINATE:		1379690.67			1379690.67			1379690.67			1379690.67			1379690.67		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	430.0000		-												
AMMONIA	MG/L	0.1000		-												
CHLORIDE	MG/L	18.0000		-												
FLUORIDE	MG/L	0.4000		-												
NITRATE	MG/L	0.0500		U												
PHENOLS	MG/L	0.0020		U												
PHOSPHORUS	MG/L	0.0800		-												
SULFATE	MG/L	85.0000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	2.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0100		U												
INORGANICS																
ALUMINUM	MG/L	0.2320		-	0.0600		U									
ANTIMONY	MG/L	0.0157		U	0.0157		U									
ARSENIC	MG/L	0.0023		-	0.0020		U									
BARIUM	MG/L	0.0555		-	0.0531		-									
BERYLLIUM	MG/L	0.0007		U	0.0007		U									
CADMIUM	MG/L	0.0012		U	0.0012		U									
CALCIUM	MG/L	146.0000		-	144.0000		-									
CHROMIUM	MG/L	0.0066		U	0.0092		U									
COBALT	MG/L	0.0055		U	0.0034		U									
COPPER	MG/L	0.0028		U	0.0024		U									
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L	3.9500		-	2.8800		-									
LEAD	MG/L	0.0010		U	0.0010		U									
MAGNESIUM	MG/L	44.6000		-	43.9000		-									
MANGANESE	MG/L	0.0763		-	0.0686		-									
MERCURY	MG/L	0.0002		U	0.0002		U									

000691

SAMPLE NUMBER:		120225			120225F			120227			120227F			120228		
LAB:		DATACHEM			DATACHEM											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L	0.0127		U	0.0097		U									
POTASSIUM	MG/L	1.3000		U	1.3000		U									
SELENIUM	MG/L	0.0010		UJ	0.0010		UJ									
SILVER	MG/L	0.0029		UJ	0.0029		UJ									
SODIUM	MG/L	11.7000		-	11.5000		-									
THALLIUM	MG/L	0.0010		U	0.0010		U									
VANADIUM	MG/L	0.0029		U	0.0029		U									
ZINC	MG/L	0.0040		U	0.0101		U									
RADIONUCLIDES																
URANIUM-238	PCI/L													0.3000	.2	J
URANIUM, TOTAL	UG/L							0.7000		NV	0.6000		NV	0.4000	.1	-
URANIUM-234	PCI/L													0.4000	.2	J
THORIUM-230	PCI/L													0.4000	.3	J
RADIUM-226	PCI/L													2.0000	.5	J
URANIUM-235/236	PCI/L													0.2000	.5	UJ
THORIUM-232	PCI/L													0.2000	.3	UJ
RADIUM-228	PCI/L													3.0000	1.1	U
THORIUM-228	PCI/L													0.2000	.7	UJ
TECHNETIUM-99	PCI/L													15.0000	5.7	UJ
GROSS ALPHA	PCI/L													4.9000	2.8	UNV
GROSS BETA	PCI/L													3.7000	3.7	UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		U												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		U												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												

000692

5704

SAMPLE NUMBER:		120225		120225F			120227			120227F			120228		
LAB:		DATACHEM													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120228F			EMGW_SYSGEN_10			EMGW_SYSGEN_6			EMGW_SYSGEN_7			EMGW_SYSGEN_8		
TASK:		50.03.23			GWMON			GWMON			GWMON			GWMON		
LAB:		CORE			NET			NET			NET			NET		
WELL OR BORING NUMBER:		1010			1010			1010			1010			1010		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		16-JUN-93			20-DEC-90			18-MAY-90			27-JUN-90			09-AUG-90		
NORTH COORDINATE:		481452.64			481452.64			481452.64			481452.64			481452.64		
EAST COORDINATE:		1379690.67			1379690.67			1379690.67			1379690.67			1379690.67		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				415.0000		NV									
AMMONIA	MG/L				0.1200		NV									
CHLORIDE	MG/L				18.0000		NV	20.0000		NV	19.0000		NV	19.0000		NV
FLUORIDE	MG/L				0.3100		NV							0.2700		NV
NITRATE, AS NITROGEN	MG/L							0.0200		NV	0.0200		UNV	0.0200		UNV
NITRATE/NITRITE	MG/L				0.0200		UNV									
PH	STD				7.0700		NV									
PHENOLS	MG/L				0.0050		UNV							0.0050		UNV
PHOSPHORUS	MG/L				0.1400		NV									
SPECIFIC CONDUCTIVITY	UMHOS/CM				961.0000		NV									
SULFATE	MG/L				78.0000		NV	108.0000		NV	103.0000		NV	85.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L				630.0000		NV									
TOTAL ORGANIC CARBON	MG/L				6.0000		NV	14.0000		NV	3.0000		NV	5.0000		NV
TOTAL ORGANIC HALOGENS	MG/L				0.0100		UNV	0.0280		NV	0.0210		NV	0.0490		NV
INORGANICS																
ALUMINUM	MG/L													0.5000		UNV
ANTIMONY	MG/L													0.0250		UNV
ARSENIC	MG/L													0.0030		NV
BARIUM	MG/L													0.2000		UNV
BERYLLIUM	MG/L													0.0100		UNV
CADMIUM	MG/L													0.0010		UNV
CALCIUM	MG/L													136.0000		NV
CHROMIUM	MG/L													0.0050		UNV
COBALT	MG/L													0.0250		UNV
COPPER	MG/L													0.0250		UNV
CYANIDE	MG/L				0.0050		UNV									
IRON	MG/L													5.0100		NV
LEAD	MG/L													0.0050		UNV

SAMPLE NUMBER:		120228F			EMGW_SYSGEN_10			EMGW_SYSGEN_6			EMGW_SYSGEN_7			EMGW_SYSGEN_8		
LAB:														NET		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L													46.4000		NV
MANGANESE	MG/L													0.0920		NV
MERCURY	MG/L													0.0002		UNV
MOLYBDENUM	MG/L													0.0250		UNV
NICKEL	MG/L													0.0050		UNV
POTASSIUM	MG/L													1.6800		NV
SELENIUM	MG/L													0.0025		UNV
SILVER	MG/L													0.0010		UNV
SODIUM	MG/L													17.1000		NV
THALLIUM	MG/L													0.0100		UNV
VANADIUM	MG/L													0.0500		UNV
ZINC	MG/L													0.0200		UNV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	0.2000	.2	UJ	0.3560		NV	0.2800		NV	0.2300		UNV	0.3640		NV
URANIUM, TOTAL	UG/L	0.9000	.1	-	0.8480		NV	1.1200		NV	1.0000		UNV	1.0000		UNV
URANIUM-234	PCI/L	0.3000	.3	J	0.6060		NV	0.4710		NV	0.3660		NV	3.5500		NV
THORIUM-230	PCI/L	0.3000	.2	UJ	0.4000		UNV	0.3200		UNV	0.2100		UNV	0.4600		UNV
RADIUM-226	PCI/L	1.9000	.5	J	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L	0.2000	.2	UJ	0.2000		UNV	0.2000		UNV	0.2300		UNV	0.2600		UNV
THORIUM-232	PCI/L	0.2000	.3	UJ	0.4000		UNV	0.3200		UNV	0.3180		NV	0.4600		UNV
THORIUM, TOTAL	UG/L	0.9120	.3	NV	3.6000		UNV	2.9000		UNV	2.8700		NV	4.1000		UNV
RADIUM-228	PCI/L	9.0000	1.8	-	3.0000		UNV	3.0000		UNV	3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L	0.2000	.8	UJ	0.9480		NV	0.3200		UNV	1.1600		NV	0.4600		UNV
TECHNETIUM-99	PCI/L	15.0000	8.2	U												
GROSS ALPHA	PCI/L	2.8000	1.8	UNV	8.4000		UNV	15.5000		NV	17.0000		UNV			
GROSS BETA	PCI/L	3.6000	2.4	UNV	9.2000		UNV	22.0000		UNV	9.4000		UNV			
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

SAMPLE NUMBER:	120228F	EMGW_SYSGEN_10			EMGW_SYSGEN_6			EMGW_SYSGEN_7			EMGW_SYSGEN_8		
LAB:		NET			NET			NET			NET		
SUFFIX/FILTERFLAG:	-	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES													
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	1.0000		UNV									
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

000698

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_9			003056			003350			003630			003857			
TASK:		GWMON			3.2.4			3.2.4			3.2.4			3.2.4			
LAB:		NET			IT			IT			IT			IT			
WELL OR BORING NUMBER:		1010			1011			1011			1011			1011			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		20-SEP-90			20-MAR-88			13-JUL-88			23-OCT-88			22-JAN-89			
NORTH COORDINATE:		481452.64			482247.85			482247.85			482247.85			482247.85			
EAST COORDINATE:		1379690.67			1377960.96			1377960.96			1377960.96			1377960.96			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
ALKALINITY AS CACO3	MG/L	402.0000		NV													
AMMONIA	MG/L							0.1000		U	0.1000		-	0.5000		-	
CHLORIDE	MG/L	20.0000		NV	14.0000		-	4.0000		-	10.0000		-	12.0000		-	
FLUORIDE	MG/L	0.3100		NV	1.9000		-	0.4000		-	0.4700		-	0.3000		-	
HEXAVALENT CHROMIUM	MG/L				0.0200		U										
NITRATE	MG/L				5.0000		U	0.1000		U	0.1000		UJ	2.4000		J	
NITRATE, AS NITROGEN	MG/L	0.0900		NV													
PH	STD	7.1500		NV	6.8900		-										
PHENOLS	MG/L	0.0050		UNV	0.0100		-	0.0100		U	0.0300		J	0.0100		U	
PHOSPHORUS	MG/L							0.1800		-	0.1220		-	0.8000		-	
SPECIFIC CONDUCTIVITY	UMHOS/CM	913.0000		NV	1098.0000		-										
SULFATE	MG/L	100.0000		NV	80.0000		-	41.0000		-	63.0000		J	74.0000		-	
TOTAL DISSOLVED SOLIDS	MG/L	635.0000		NV													
TOTAL KJELDAHL NITROGEN	MG/L										0.6800		-	4.7000		-	
TOTAL ORGANIC CARBON	MG/L	8.0000		NV													
TOTAL ORGANIC HALIDES	MG/L										0.0500		U				
TOTAL ORGANIC HALOGENS	MG/L	0.0480		NV													
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U	0.5800		-	4.2000		-	
INORGANICS																	
ARSENIC	MG/L				0.0300		U	0.2000		U	0.0020		U	0.0250		-	
BARIUM	MG/L				0.1500		-	0.1350		-	0.1530		-	0.2090		-	
CADMIUM	MG/L				0.0050		U	0.0020		U	0.0020		U	0.0150		-	
CALCIUM	MG/L							168.0000		-	186.0000		-	194.0000		-	
CHROMIUM	MG/L				0.0100		U	0.0200		U	0.0200		U	0.0400		-	
COPPER	MG/L				0.0100		-	0.0100		U	0.0100		U	0.0200		-	
IRON	MG/L				16.4000		-	1.2990		-	0.2590		-	27.0000		-	
LEAD	MG/L				0.0300		U	0.0500		U	0.0050		J	0.0020		UJ	
MAGNESIUM	MG/L							70.3200		-	71.5000		-	75.0000		-	

000697

SAMPLE NUMBER:		EMGW_SYSGEN_9			003056			003350			003630			003857		
LAB:								IT			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L				1.7000		-	1.2250		-	1.1100		-	1.9500		-
MERCURY	MG/L				0.0010		U	0.0002		U	0.0002		UJ	0.0002		U
MOLYBDENUM	MG/L				0.0100		U	0.0200		U	0.0200		U	0.0200		U
NICKEL	MG/L				0.0300		-	0.0200		U	0.0200		U	0.0540		-
POTASSIUM	MG/L							0.6430		-	1.1500		-	0.5650		-
SELENIUM	MG/L				0.0600		U	0.2000		U	0.0020		UJ	0.0020		U
SILVER	MG/L				0.0050		U	0.0100		R	0.0005		U	0.0005		U
SODIUM	MG/L				5.3000		-	5.1600		-	7.1600		-	10.8000		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L				1.0000		U	1.0000		UJ	1.0000		R	9.6000	1.4	-
URANIUM, TOTAL	UG/L				1.0000		U	1.0000		U	1.0000		R	25.0000	4	-
URANIUM-234	PCI/L				1.0000		U	1.0000		UJ	1.0000		R	5.7000	.9	-
THORIUM-230	PCI/L				1.0000		U	1.0000		UJ	1.0000		R	1.0000		U
RADIUM-226	PCI/L				1.0000		U	1.0000		U	1.0000		R	1.0000		U
URANIUM-235/236	PCI/L				1.0000		U	1.0000		UJ	1.0000		R	1.0000		U
THORIUM-232	PCI/L				1.0000		U	1.0000		UJ	1.0000		R	1.0000		U
THORIUM, TOTAL	UG/L							5.0000		UJ	4.0000		R	7.0000		UJ
RADIUM-228	PCI/L				3.0000		U	3.1000	1.3	J	3.0000		R	3.1000		UJ
THORIUM-228	PCI/L				1.0000		U	1.0000		UJ	1.0000		R	1.0000		U
NEPTUNIUM-237	PCI/L				1.0000		U	1.0000		UJ	1.0000		R	1.0000		U
PLUTONIUM-239/240	PCI/L				1.0000		U	1.0000		U	1.0000		R	1.0000		UJ
PLUTONIUM-238	PCI/L				1.0000		U	1.0000		U	1.0000		R	1.0000		UJ
STRONTIUM-90	PCI/L				5.0000		U	5.0000		U	5.0000		R	5.0000		U
TECHNETIUM-99	PCI/L				30.0000		U	30.0000		UJ	30.0000		R	30.9000		U
RUTHENIUM-106	PCI/L				150.0000		R	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L				20.0000		R	20.0000		R	20.0000		R	20.0000		R
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHENE	UG/L	1.0000		UNV												
1,2-DICHLOROETHANE	UG/L	1.0000		UNV												

000698

5704

SAMPLE NUMBER:		EMGW_SYSGEN_9		003056			003350			003630			003857		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV												
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV												
2-BUTANONE	UG/L	2.0000		UNV												
2-HEXANONE	UG/L	2.0000		UNV												
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV												
ACETONE	UG/L	2.0000		UNV												
BENZENE	UG/L	1.0000		UNV												
BROMODICHLOROMETHANE	UG/L	1.0000		UNV												
BROMOFORM	UG/L	1.0000		UNV												
BROMOMETHANE	UG/L	1.0000		UNV												
CARBON DISULFIDE	UG/L	1.0000		UNV												
CARBON TETRACHLORIDE	UG/L	1.0000		UNV												
CHLOROBENZENE	UG/L	1.0000		UNV												
CHLOROETHANE	UG/L	1.0000		UNV												
CHLOROFORM	UG/L	1.0000		UNV												
CHLOROMETHANE	UG/L	1.0000		UNV												
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV												
ETHYLBENZENE	UG/L	1.0000		UNV												
METHYLENE CHLORIDE	UG/L	1.0000		UNV												
STYRENE	UG/L	1.0000		UNV												
TETRACHLOROETHENE	UG/L	1.0000		UNV												
TOLUENE	UG/L	1.0000		UNV												
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
TRICHLOROETHENE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	2.0000		UNV												
VINYL CHLORIDE	UG/L	1.0000		UNV												
XYLENES, TOTAL	UG/L	1.0000		UNV												

000599

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		004056			066818			120262			120263			120263F		
TASK:		3.2.4			9.27			50.03.23			50.03.23			50.03.23		
LAB:		IT			IT			DATACHEM			CORE			CORE		
WELL OR BORING NUMBER:		1011			1011			1011			1011			1011		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		02-APR-89			14-DEC-89			16-JUL-93			16-JUL-93			16-JUL-93		
NORTH COORDINATE:		482247.85			482247.85			482247.85			482247.85			482247.85		
EAST COORDINATE:		1377960.96			1377960.96			1377960.96			1377960.96			1377960.96		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							690.0000		-						
AMMONIA	MG/L							2.2000		-						
CHLORIDE	MG/L							10.0000		-						
FLUORIDE	MG/L							0.4000		-						
NITRATE/NITRITE	MG/L							0.7700		-						
PHENOLS	MG/L							0.0020		U						
PHOSPHORUS	MG/L							0.3600		-						
SULFATE	MG/L							94.0000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL KJELDAHL NITROGEN	MG/L							2.5000		-						
TOTAL ORGANIC CARBON	MG/L							9.0000		-						
TOTAL ORGANIC HALIDES	MG/L	0.1404		-				0.1100		-						
TOTAL ORGANIC NITROGEN	MG/L							0.3000		-						
INORGANICS																
ALUMINUM	MG/L							0.0600		U						
ANTIMONY	MG/L							0.0157		U						
ARSENIC	MG/L							0.0060		-						
BARIUM	MG/L							0.1260		-						
BERYLLIUM	MG/L							0.0003		U						
CADMIUM	MG/L							0.0012		U						
CALCIUM	MG/L							189.0000		-						
CHROMIUM	MG/L							0.0065		U						
COBALT	MG/L							0.0037		U						
COPPER	MG/L							0.0033		U						
CYANIDE	MG/L							0.0100		U						
IRON	MG/L							27.2000		-						
LEAD	MG/L							0.0010		UJ						
MAGNESIUM	MG/L							78.9000		-						

000700

5704

SAMPLE NUMBER:		004056			066818			120262			120263			120263F		
LAB:								DATACHEM								
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							1.2000		-						
MERCURY	MG/L							0.0002		U						
NICKEL	MG/L							0.0233		-						
POTASSIUM	MG/L							0.8590		-						
SELENIUM	MG/L							0.0020		UJ						
SILVER	MG/L							0.0029		UJ						
SODIUM	MG/L							8.8900		-						
THALLIUM	MG/L							0.0010		UJ						
VANADIUM	MG/L							0.0029		U						
ZINC	MG/L							0.0040		U						
RADIONUCLIDES																
URANIUM-238	PCI/L				18.5000	2.4	-				15.6000	1.7	-			
URANIUM, TOTAL	UG/L				80.0000	11.9	-				44.7000	3.1	-	40.9000	2.9	-
URANIUM-234	PCI/L				11.1000	1.5	-				8.6000	3.1	-			
THORIUM-230	PCI/L				1.0000		U				0.7000	.4	R	0.2000	.2	UJ
RADIUM-226	PCI/L										1.0000	.2	U	1.0000	.2	UJ
URANIUM-235/236	PCI/L				1.0000		U				0.5000	.3	-			
THORIUM-232	PCI/L										0.4000	.3	R	0.2000	.1	UJ
RADIUM-228	PCI/L										3.0000	1.3	U	3.0000	1	UJ
THORIUM-228	PCI/L				1.0000		U				0.2000	.2	R	0.2000	.2	UJ
TECHNETIUM-99	PCI/L				30.0000		U				15.0000	7.5	U	15.0000	13.8	UJ
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		UJ						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							27.0000		-						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						

SAMPLE NUMBER:	004056	066818	120262	120263	120263F
LAB:			DATACHEM		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120265	120265F	EMGW_SYSGEN_11	EMGW_SYSGEN_12	EMGW_SYSGEN_13
TASK:	50.03.23	50.03.23	GWMON	GWMON	GWMON
LAB:	FERMCO	FERMCO	IT	NET	NET
WELL OR BORING NUMBER:	1011	1011	1011	1011	1011
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-JUL-93	16-JUL-93	01-MAR-90	29-MAY-90	02-JUL-90
NORTH COORDINATE:	482247.85	482247.85	482247.85	482247.85	482247.85
EAST COORDINATE:	1377960.96	1377960.96	1377960.96	1377960.96	1377960.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L										10.0000		NV	23.0000		NV
NITRATE, AS NITROGEN	MG/L										0.0200		UNV	0.0200		UNV
SULFATE	MG/L										108.0000		NV	139.0000		NV
TOTAL ORGANIC CARBON	MG/L										70.0000		NV	6.0000		NV
TOTAL ORGANIC HALOGENS	MG/L										0.0130		NV	0.0630		NV
RADIONUCLIDES																
URANIUM-238	PCI/L							1.4800	.42	NV	0.2100		UNV	8.8800		NV
URANIUM, TOTAL	UG/L	45.0000		UNV	45.0000		UNV	4.0000		NV	0.7300		UNV	26.6000		NV
URANIUM-234	PCI/L							0.9200	.33	NV	0.2100		UNV	4.8400		NV
THORIUM-230	PCI/L										0.9410		NV	1.7200		NV
RADIUM-226	PCI/L										1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L										0.2100		UNV	0.4300		NV
THORIUM-232	PCI/L										0.6600		UNV	1.2000		UNV
THORIUM, TOTAL	UG/L										6.0000		UNV	10.0000		UNV
RADIUM-228	PCI/L										3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L										1.5900		NV	1.8100		NV
GROSS ALPHA	PCI/L										1490.0000		NV	19.0000		UNV
GROSS BETA	PCI/L										2150.0000		NV	9.5000		UNV
URANIUM-235	PCI/L							1.0000		UNV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV

000703

SAMPLE NUMBER:	120265	120265F	EMGW_SYSGEN_11	EMGW_SYSGEN_12	EMGW_SYSGEN_13
LAB:				NET	NET
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHENE (TOTAL)	UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L										1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L										2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L										2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L										2.0000		UNV	2.0000		UNV
ACETONE	UG/L										2.0000		UNV	2.0000		UNV
BENZENE	UG/L										1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L										1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L										1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L										1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L										1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
STYRENE	UG/L										1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
TOLUENE	UG/L										1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L										2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L										1.0000		UNV	1.0000		UNV

000704

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_14	EMGW_SYSGEN_15	003051	003081	003425
TASK:	GWMON	GWMON	9.8	3.2.4	3.2.4
LAB:	NET	NET	WMCO	IT	IT
WELL OR BORING NUMBER:	1011	1011	1012	1012	1012
DEPTH:	-	-	-	-	-
DATE COLLECTED:	07-JAN-91	12-MAR-91	07-DEC-87	06-APR-88	25-JUL-88
NORTH COORDINATE:	482247.85	482247.85	483703.23	483703.23	483703.23
EAST COORDINATE:	1377960.96	1377960.96	1380912.78	1380912.78	1380912.78
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	621.0000		NV	647.0000		NV									
AMMONIA	MG/L	0.4900		NV	0.4200		NV				1.5000		NV	1.0000		-
CHEMICAL OXYGEN DEMAND	MG/L							10.0000		UNV						
CHLORIDE	MG/L	11.0000		NV	10.0000		NV	110.0000		NV	100.0000		NV	135.0000		-
FLUORIDE	MG/L	0.3200		NV	0.2800		NV	0.7600		NV	2.1000		NV	1.3000		-
HEXAVALENT CHROMIUM	MG/L							0.0050		UNV						
NITRATE	MG/L							0.0200		UNV	5.0000		UNV	0.0600		J
NITRATE, AS NITROGEN	MG/L				0.0700		NV									
NITRATE/NITRITE	MG/L	0.0200		UNV												
PH	STD	6.8100		NV	6.8600		NV									
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0020		U
PHOSPHATE	MG/L										0.0100		UNV			
PHOSPHORUS	MG/L	1.3700		NV	0.6700		NV	0.0200		UNV				0.1000		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	1210.0000		NV	1250.0000		NV									
SULFATE	MG/L	183.0000		NV	181.0000		NV	4.0000		NV	2.0000		UNV	1.0000		U
TOTAL DISSOLVED SOLIDS	MG/L	880.0000		NV	730.0000		NV	642.0000		NV						
TOTAL ORGANIC CARBON	MG/L	10.0000		NV	12.0000		NV	1.0000		UNV						
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV						
TOTAL ORGANIC HALOGENS	MG/L	0.1550		NV	0.1270		NV									
TOTAL ORGANIC NITROGEN	MG/L										0.3000		NV	0.4300		J
HERBICIDES																
2,4,5-TP (SILVEX)	UG/L							500.0000		UNV						
2,4-D	UG/L							1000.0000		UNV						
INORGANICS																
ALUMINUM	MG/L				0.5000		UNV									
ANTIMONY	MG/L				0.0250		UNV									

004005

SAMPLE NUMBER:		EMGW_SYSGEN_14			EMGW_SYSGEN_15		003051			003081			003425		
LAB:					NET										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ARSENIC	MG/L				0.0360		0.0025		UNV	0.0300		UNV	0.0100		U
BARIUM	MG/L				0.4060		0.2000		UNV	0.1100		NV	0.5000		U
BERYLLIUM	MG/L				0.0100										
CADMIUM	MG/L				0.0010		0.0010		UNV	0.0050		UNV	0.0050		U
CALCIUM	MG/L				157.0000		17.6000		NV	86.8000		NV	16.0000		-
CHROMIUM	MG/L				0.0050		0.0050		UNV	0.0100		UNV	0.0100		U
COBALT	MG/L				0.0250										
COPPER	MG/L				0.0250		0.0250		UNV	0.0100		UNV	0.0100		U
CYANIDE	MG/L	0.0050		UNV	0.0050		0.0050								
IRON	MG/L				31.4000		0.0640		NV	0.1200		NV	0.1000		U
LEAD	MG/L				0.0050		0.0050		UNV	0.0300		UNV	0.0050		U
MAGNESIUM	MG/L				85.0000		43.0000		NV	7.1000		NV	6.0000		-
MANGANESE	MG/L				1.8600		0.0150		UNV	0.0050		NV	0.0100		U
MERCURY	MG/L				0.0002		0.0002		UNV	0.0010		UNV	0.0002		U
MOLYBDENUM	MG/L				0.0250					0.0100		UNV	0.0500		U
NICKEL	MG/L				0.0070		0.0050		UNV	0.0200		UNV	0.0300		U
POTASSIUM	MG/L				1.0000		12.2000		NV	8.0000		NV	10.0000		-
SELENIUM	MG/L				0.0025		0.0025		UNV	0.0010		UNV	0.0050		UJ
SILVER	MG/L				0.0010		0.0300		UNV	0.0050		UNV	0.0100		U
SODIUM	MG/L				7.1000		226.0000		NV	212.0000		NV	340.0000		-
THALLIUM	MG/L				0.0100										
VANADIUM	MG/L				0.0500										
ZINC	MG/L				0.0200		0.0200		UNV						
MISC															
ALACHLOR	UG/L						2000.0000		UNV						
ATRAZINE	UG/L						1000.0000		UNV						
CARBOFURAN	UG/L						1000000.00		UNV						
CYANAZINE	UG/L						1000.0000		UNV						
FONOFOS	UG/L						1000.0000		UNV						
LINURON	UG/L						1000.0000		UNV						
METOLACHLOR	UG/L						1000.0000		UNV						
METRIBUZIN	UG/L						1000.0000		UNV						
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000				UNV						
ORGANOPHOSPHORUS															
PHOSPHORODITHIOIC ACID,	UG/L						1000.0000		UNV						
PESTICIDES															
ENDRIN	UG/L						200.0000		UNV						
GAMMA-BHC (LINDANE)	UG/L						200.0000		UNV						
METHOXYCHLOR	UG/L						200.0000		UNV						

SAMPLE NUMBER:		EMGW_SYSGEN_14			EMGW_SYSGEN_15			003051			003081			003425		
LAB:								WMCO								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
TOXAPHENE	UG/L							500.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L	2.6500		NV	0.7930		NV				1.0000		U	1.0000		U
URANIUM, TOTAL	UG/L	3.1600		NV	2.5000		NV				1.0000		U	1.0000		U
URANIUM-234	PCI/L	2.0200		NV	0.5580		NV				1.0000		U	1.0000		U
THORIUM-230	PCI/L	0.6700		UNV	0.2700		UNV				1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV				1.0000		R	1.0000		UJ
URANIUM-235/236	PCI/L	0.2000		UNV	0.2000		UNV				1.0000		U	1.0000		U
THORIUM-232	PCI/L	0.6700		UNV	0.2700		UNV				1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L	6.0000		UNV	2.5000		UNV							2.0000		U
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV				3.0000		R	1.2000	1	R
THORIUM-228	PCI/L	1.2000		NV	1.4000		NV				1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L				0.5000		UNV				1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L				0.5000		UNV				1.0000		U	1.0000		UJ
PLUTONIUM-238	PCI/L				0.5000		UNV				1.0000		U	1.0000		UJ
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L				28.0000		UNV				30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L				150.0000		UNV				150.0000		R	150.0000		R
CESIUM-137	PCI/L				7.2000		UNV				20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	14.0000		UNV	10.0000		UNV									
GROSS BETA	PCI/L	13.0000		UNV	6.0000		UNV									
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV									
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV									
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV									
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV									
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV									
ACETONE	UG/L	4.8000		NV	2.0000		UNV									
BENZENE	UG/L	1.0000		UNV	1.0000		UNV									
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV									

SAMPLE NUMBER:		EMGW_SYSGEN_14		EMGW_SYSGEN_15		003051			003081			003425		
LAB:		NET		NET										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV									
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV									
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV									
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
STYRENE	UG/L	1.0000		UNV	1.0000		UNV									
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV									
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV									
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV									
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV									

000708

9704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003488			003655			003853			003138			003382			
TASK:		3.2.4			3.2.4			3.2.4			3.2.4			3.2.4			
LAB:		IT			IT			IT			IT			IT			
WELL OR BORING NUMBER:		1012			1012			1012			1018			1018			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		23-JAN-89			04-NOV-88			23-JAN-89			14-APR-88			27-JUL-88			
NORTH COORDINATE:		483703.23			483703.23			483703.23			479450.19			479450.19			
EAST COORDINATE:		1380912.78			1380912.78			1380912.78			1378661.75			1378661.75			
QA TYPE:		DUPLICATE			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:		003853															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
AMMONIA	MG/L	1.0000		J	1.6700		-	1.4500		J	0.1000		U	0.1000		UJ	
CHLORIDE	MG/L	116.0000		J	115.0000		-	104.0000		J	0.5000		J	2.4000		J	
FLUORIDE	MG/L	0.8400		J	0.6400		J	0.7600		J	0.3600		-	1.0000		R	
NITRATE	MG/L	0.1000		R	0.1000		UJ	0.1100		J	0.1000		UJ	0.1000		R	
PHENOLS	MG/L	0.0100		U	0.0100		U	0.0100		UJ	0.0400		-	0.0500		U	
PHOSPHORUS	MG/L				0.0200		U				0.0500		UJ	0.1100		R	
SULFATE	MG/L	2.0000		U	155.0000		-	2.0000		U	11.0000		J	48.0000		R	
TOTAL KJELDAHL NITROGEN	MG/L	1.3200		J	1.7100		J	1.4700		J							
TOTAL ORGANIC HALIDES	MG/L	0.0160		-	0.0500		U	0.0140		-							
TOTAL ORGANIC NITROGEN	MG/L	0.3200		J	0.1000		U	0.1000		UJ	0.2000		-	0.1000		UJ	
INORGANICS																	
ARSENIC	MG/L	0.0020		UJ	0.0020		U	0.0020		UJ	0.2000		UJ	0.0100		UJ	
BARIUM	MG/L	0.0710		J	0.0700		-	0.0600		J	0.0350		J	0.2000		U	
CADMIUM	MG/L	0.0020		UJ	0.0020		U	0.0020		UJ	0.0050		UJ	0.0050		U	
CALCIUM	MG/L	21.4000		-	19.6000		-	16.4000		J	78.3000		J	76.0000		J	
CHROMIUM	MG/L	0.0100		UJ	0.0200		U	0.0100		UJ	0.0200		UJ	0.0100		U	
COPPER	MG/L	0.0100		UJ	0.0100		U	0.0100		UJ	0.0100		UJ	0.0250		U	
IRON	MG/L	0.0880		J	0.0600		-	0.0740		J	0.0050		UJ	0.1000		U	
LEAD	MG/L	0.0020		UJ	0.0100		UJ	0.0020		UJ	0.0500		UJ	0.2000		U	
MAGNESIUM	MG/L	8.3900		J	7.8000		-	6.3900		J	27.5000		J	28.0000		-	
MANGANESE	MG/L	0.0100		J	0.0070		-	0.0080		J	0.0930		J	0.0900		-	
MERCURY	MG/L	0.0006		J	0.0002		U	0.0010		J	0.0002		UJ	0.0009		U	
MOLYBDENUM	MG/L	0.0200		UJ	0.0200		U	0.0200		UJ	0.0200		UJ	0.0500		U	
NICKEL	MG/L	0.0200		UJ	0.0200		U	0.0200		UJ	0.0200		UJ	0.0400		U	
POTASSIUM	MG/L	10.9000		-	10.1000		J	10.9000		J	0.6700		J	5.0000		U	
SELENIUM	MG/L	0.0020		UJ	0.0030		J	0.0020		UJ	0.2000		UJ	0.0050		U	
SILVER	MG/L	0.0005		UJ	0.0100		U	0.0005		UJ	0.0100		UJ	0.0100		UJ	
SODIUM	MG/L	194.0000		-	238.0000		-	220.0000		J	3.8200		J	6.0000		-	

000709

SAMPLE NUMBER:		003488			003655			003853			003138			003382		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.3000	.5	NV	1.8000	.5	-
URANIUM, TOTAL	UG/L	0.8000	.1	-	1.0000		U	2.1000	.3	-	5.0000	1	NV	4.0000	1	U
URANIUM-234	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.8000	.5	NV	2.8000	.7	-
THORIUM-230	PCI/L	1.2000		U	1.0000		U	1.0000		U	1.0000		NV	1.0000		U
RADIUM-226	PCI/L	1.0000		U	1.2000	.5	-	1.0000		U	1.0000		UNV	1.0000		U
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		NV	1.0000		U
THORIUM-232	PCI/L	1.2000		U	1.0000		U	1.0000		U	1.0000		NV	1.0000		U
THORIUM, TOTAL	UG/L	10.0000		U	2.0000		U	11.0000		U	9.1202		NV	5.0000		U
RADIUM-228	PCI/L	3.3000		U	3.0000		U	3.0000		U	3.0000		UNV	3.0000		UJ
THORIUM-228	PCI/L	1.2000		U	1.0000		U	1.0000		U	1.0000		NV	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		NV	1.0000		U
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		NV	1.0000		R
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		NV	1.0000		R
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U	5.0000		NV	5.0000		U
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U	30.0000		NV	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R	150.0000		UNV	150.0000		R
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R	20.0000		NV	20.0000		R

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003666			003858			066820			EMGW_SYSGEN_18			EMGW_SYSGEN_19
TASK:		3.2.4			3.2.4			9.27			GWMON			GWMON
LAB:		IT			IT			IT			NET			NET
WELL OR BORING NUMBER:		1018			1018			1018			1018			1018
DEPTH:		-			-			-			-			-
DATE COLLECTED:		02-NOV-88			22-JAN-89			04-JAN-90			16-APR-90			16-OCT-90
NORTH COORDINATE:		479450.19			479450.19			479450.19			479450.19			479450.19
EAST COORDINATE:		1378661.75			1378661.75			1378661.75			1378661.75			1378661.75
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													270.0000		NV
AMMONIA	MG/L	0.1000		U	0.1000		U							0.0200		UNV
CHLORIDE	MG/L	2.3000		-	2.2000		U				6.0000		NV	3.0000		NV
FLUORIDE	MG/L	0.5000		U	0.3000		-							0.4100		NV
NITRATE	MG/L	0.1500		J	0.0500		R									
NITRATE, AS NITROGEN	MG/L										0.0600		NV			
NITRATE/NITRITE	MG/L													0.0600		NV
PH	STD													6.9500		NV
PHENOLS	MG/L	0.0100		U	0.0100		U							0.0050		UNV
PHOSPHORUS	MG/L	0.0240		-	0.1000		-							0.2100		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM													635.0000		NV
SULFATE	MG/L	114.0000		J	55.0000		-				53.0000		NV	72.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L													520.0000		NV
TOTAL KJELDAHL NITROGEN	MG/L	0.1300		-	0.1000		U									
TOTAL ORGANIC CARBON	MG/L										1.0000		NV	1.0000		UNV
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0210		-									
TOTAL ORGANIC HALOGENS	MG/L										0.0100		UNV	0.0100		UNV
TOTAL ORGANIC NITROGEN	MG/L	0.1300		J	0.1000		U									
INORGANICS																
ARSENIC	MG/L	0.0020		U	0.0020		U									
BARIUM	MG/L	0.0400		-	0.0400		-									
CADMIUM	MG/L	0.0020		U	0.0050		-									
CALCIUM	MG/L	74.1000		-	81.2000		-									
CHROMIUM	MG/L	0.0200		U	0.0190		-									
COPPER	MG/L	0.0100		U	0.0100		U									
CYANIDE	MG/L													0.0050		UNV
IRON	MG/L	0.0400		-	0.0670		-									
LEAD	MG/L	0.0050		UJ	0.0020		UJ									

000711

SAMPLE NUMBER:		003666			003858			066820			EMGW_SYSGEN_18			EMGW_SYSGEN_19		
LAB:		IT			IT											
SUFFIX/FILTER FLAG:		NONE-FIL			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	25.9000		-	29.1000		-									
MANGANESE	MG/L	0.1000		-	0.0200		-									
MERCURY	MG/L	0.0002		U	0.0002		U									
MOLYBDENUM	MG/L	0.0200		U	0.0200		U									
NICKEL	MG/L	0.0200		U	0.0200		U									
POTASSIUM	MG/L	0.5770		U	0.6390		-									
SELENIUM	MG/L	0.0020		UJ	0.0020		U									
SILVER	MG/L	0.0100		U	0.0005		U									
SODIUM	MG/L	3.9000		-	4.2000		-									
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	1.4000	.4	J	1.0000	.3	-	2.1400	.43	-	1.0100		NV			
URANIUM, TOTAL	UG/L	3.0000	1	-	4.0000	1	-	6.5600	.71	J	3.0500		NV			
URANIUM-234	PCI/L	1.8000	.4	J	1.3000	.3	-	1.8900	.4	R	1.0900		NV			
THORIUM-230	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	0.4050		NV			
RADIUM-226	PCI/L	1.0000		U	1.0000		U				1.0000		UNV			
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	0.2200		UNV			
THORIUM-232	PCI/L	1.0000		UJ	1.0000		U				0.2900		UNV			
THORIUM, TOTAL	UG/L	2.0000		UJ	3.0000		U				2.6000		UNV			
RADIUM-228	PCI/L	3.0000		UJ	3.0000		UJ				3.0000		UNV			
THORIUM-228	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	0.2900		UNV			
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		U									
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		UJ									
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		UJ									
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U									
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U						
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R									
CESIUM-137	PCI/L	20.0000		R	20.0000		R									
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L										1.0000		UNV			
1,4-DICHLOROBENZENE	UG/L										1.0000		UNV			
2-CHLOROETHYLVINYL ETHER	UG/L										60.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV

SAMPLE NUMBER:	003666	003858	066820	EMGW_SYSGEN_18	EMGW_SYSGEN_19
LAB:				NET	NET
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L													1.0000		UNV
1,2-DICHLOROPROPANE	UG/L										1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L													2.0000		UNV
2-HEXANONE	UG/L													2.0000		UNV
4-METHYL-2-PENTANONE	UG/L													2.0000		UNV
ACETONE	UG/L													2.0000		UNV
BENZENE	UG/L										1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L										1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L													1.0000		UNV
CARBON TETRACHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L													1.0000		UNV
CHLOROFORM	UG/L										1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L										1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
STYRENE	UG/L													1.0000		UNV
TETRACHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
TOLUENE	UG/L										1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
TRICHLOROFLUOROMETHANE	UG/L										1.0000		UNV			
VINYL ACETATE	UG/L													2.0000		UNV
VINYL CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L													1.0000		UNV

000713

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003041	003149	003503	003748	003944
TASK:	9.8	3.2.4	3.2.4	3.2.4	3.2.4
LAB:		IT	IT	IT	IT
WELL OR BORING NUMBER:	1019	1019	1019	1019	1019
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-DEC-87	04-MAY-88	17-AUG-88	04-DEC-88	08-MAR-89
NORTH COORDINATE:	481657.56	481657.56	481657.56	481657.56	481657.56
EAST COORDINATE:	1379094.87	1379094.87	1379094.87	1379094.87	1379094.87
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L				0.5000		U	0.1000		-	0.1080		-	0.4000		UJ
CHLORIDE	MG/L				305.0000		J	1750.0000		J	1160.0000		R	490.0000		J
FLUORIDE	MG/L				0.6000		J	0.2500		-	0.4800		-	0.5000		J
NITRATE	MG/L				0.1000		U	0.1300		J	12.8000		-	0.2000		J
PHENOLS	MG/L				0.0100		UJ	0.0200		J	0.0200		-	0.0080		J
PHOSPHORUS	MG/L				0.2200		-	0.1400		-	0.0610		-	0.1200		J
SULFATE	MG/L				575.0000		-	266.0000		J	224.0000		-	250.0000		J
TOTAL KJELDAHL NITROGEN	MG/L										0.2590		-	0.4000		J
TOTAL ORGANIC HALIDES	MG/L							0.2400		-	0.2100		-	0.0500		UJ
TOTAL ORGANIC NITROGEN	MG/L				0.5000		U	0.1000		-	0.1510		-	0.0000		J
INORGANICS																
ALUMINUM	MG/L				0.0500		U									
ANTIMONY	MG/L				0.0005		U									
ARSENIC	MG/L				0.0020		U	0.4400		-	0.0040		R	0.0030		UJ
BARIUM	MG/L				0.1000		-	0.1700		-	0.1950		-	0.1000		J
BERYLLIUM	MG/L				0.0010		U									
CADMIUM	MG/L				0.0020		U	0.0020		U	0.0020		-	0.0060		J
CALCIUM	MG/L				274.5000		J	529.0000		-	522.0000		-	300.0000		J
CHROMIUM	MG/L				0.0200		U	0.0200		U	0.0200		U	0.0400		J
COBALT	MG/L				0.0100		U									
COPPER	MG/L				0.0100		UJ	0.0100		U	0.0100		U	0.0100		UJ
CYANIDE	MG/L				0.0100		UJ									
IRON	MG/L				0.7460		J	0.9240		-	1.5100		J	0.8700		J
LEAD	MG/L				0.0020		UJ	0.0500		U	0.0030		J	0.0020		UJ
MAGNESIUM	MG/L				87.5800		J	162.0000		-	159.0000		-	86.0000		J
MANGANESE	MG/L				1.0460		-	1.6000		-	1.6100		-	1.1000		J
MERCURY	MG/L				0.0002		U	0.0002		UJ	0.0002		U	0.0002		UJ
MOLYBDENUM	MG/L				0.0200		UJ	0.0200		U	0.0200		UJ	0.0200		J

000714

5704

SAMPLE NUMBER:		003041			003149			003503			003748			003944		
LAB:					IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		-			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L				0.0200		U	0.0200		U	0.0200		U	0.0300		UJ
POTASSIUM	MG/L				0.7280		UJ	1.9000		-	1.4700		-	0.8600		J
SELENIUM	MG/L				0.0020		UJ	0.2000		U	0.0020		R	0.0050		UJ
SILVER	MG/L				0.0005		R	0.0100		U	0.0200		U	0.0100		J
SODIUM	MG/L				118.3000		J	360.0000		-	437.0000		-	170.0000		J
THALLIUM	MG/L				0.0012		UJ									
VANADIUM	MG/L				0.0100		UJ									
ZINC	MG/L				0.0100		UJ									
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L				2000.0000		U									
DEMETON	UG/L				1000.0000		U									
DIAZINON	UG/L				500.0000		U									
DISULFOTON	UG/L				500.0000		U									
ETHION	UG/L				500.0000		U									
MALATHION	UG/L				1000.0000		U									
METHYL PARATHION	UG/L				1000.0000		U									
PARATHION	UG/L				500.0000		U									
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.5000		U									
AROCLOR-1016	UG/L				0.5000		U									
AROCLOR-1221	UG/L				0.5000		U									
AROCLOR-1232	UG/L				0.5000		U									
AROCLOR-1242	UG/L				0.5000		U									
AROCLOR-1248	UG/L				0.5000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.5000		U									

SAMPLE NUMBER:		003041			003149			003503			003748			003944		
LAB:					IT/MWL											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				1.0000		U									
RADIONUCLIDES																
URANIUM-238	PCI/L				193.8000	33	J	140.0000	18	-	334.0000	58	J	276.0000	36	J
URANIUM, TOTAL	UG/L				600.0000	96	J	207.0000	35	-	818.0000	132	-	739.0000	122	-
URANIUM-234	PCI/L				49.6000	9.2	J	25.7000	3.6	J	138.0000	22	J	67.1000	9.2	J
THORIUM-230	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		U
RADIUM-226	PCI/L				1.0000		U	1.0000		U	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L				4.4000	1.5	J	2.6000	.7	J	7.3000	2.3	J	5.9000	1.2	J
THORIUM-232	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		U
THORIUM, TOTAL	UG/L							6.0000		UJ	4.0000		UJ	5.0000		U
RADIUM-228	PCI/L				3.0000		U	3.0000		U	3.0000		U	3.0000		UJ
THORIUM-228	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		U
NEPTUNIUM-237	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		U
PLUTONIUM-239/240	PCI/L				1.0000		UJ	1.0000		R	1.0000		UJ	1.0000		U
PLUTONIUM-238	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		U
STRONTIUM-90	PCI/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L				30.0000		U	30.0000		U	30.0000		U	1070.0000	120	J
RUTHENIUM-106	PCI/L				150.0000		R	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L				20.0000		R	20.0000		R	20.0000		R	20.0000		R
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		R									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		R									
2,4-DICHLOROPHENOL	UG/L				10.0000		R									
2,4-DIMETHYLPHENOL	UG/L				10.0000		R									
2,4-DINITROPHENOL	UG/L				50.0000		R									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		R									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		R									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		R									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UJ									

000716

B704

SAMPLE NUMBER:	003041	003149	003503	003748	003944
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L				50.0000		UJ									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		R									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		R									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		R									
4-NITROANILINE	UG/L				50.0000		UJ									
4-NITROPHENOL	UG/L				50.0000		R									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		UJ									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		R									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		R									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		UJ									
PENTACHLOROPHENOL	UG/L				50.0000		R									
PHENANTHRENE	UG/L				10.0000		UJ									

SAMPLE NUMBER:		003041			003149			003503			003748			003944		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENOL	MG/L				10.0000		R									
PYRENE	UG/L				10.0000		U									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U									
1,1-DICHLOROETHANE	UG/L				5.0000		U									
1,1-DICHLOROETHENE	UG/L				5.0000		U									
1,2-DICHLOROETHANE	UG/L				5.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				25.0000		-									
1,2-DICHLOROPROPANE	UG/L				5.0000		U									
2-BUTANONE	UG/L				10.0000		UJ									
2-HEXANONE	UG/L				10.0000		UJ									
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ									
ACETONE	UG/L				7.0000		J									
BENZENE	UG/L				5.0000		UJ									
BROMODICHLOROMETHANE	UG/L				5.0000		U									
BROMOFORM	UG/L				5.0000		U									
BROMOMETHANE	UG/L				10.0000		UJ									
CARBON DISULFIDE	UG/L				5.0000		U									
CARBON TETRACHLORIDE	UG/L				5.0000		U									
CHLOROBENZENE	UG/L				5.0000		UJ									
CHLOROETHANE	UG/L				10.0000		U									
CHLOROFORM	UG/L				5.0000		U									
CHLOROMETHANE	UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
DIBROMOCHLOROMETHANE	UG/L				5.0000		U									
ETHYLBENZENE	UG/L				5.0000		UJ									
METHYLENE CHLORIDE	UG/L				18.0000		UJ									
STYRENE	UG/L				5.0000		UJ									
TETRACHLOROETHENE	UG/L				5.0000		U									
TOLUENE	UG/L				5.0000		UJ									
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
TRICHLOROETHENE	UG/L				5.0000		U									
VINYL ACETATE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				2.0000		J									
XYLENES, TOTAL	UG/L				5.0000		UJ									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	004039	EMGW_SYSGEN_20	EMGW_SYSGEN_21	003044	003059
TASK:	3.2.4	GWMON	GWMON	9.8	3.2.4
LAB:	IT	IT	NET	WMCO	IT
WELL OR BORING NUMBER:	1019	1019	1019	1020	1020
DEPTH:	-	-	-	-	-
DATE COLLECTED:	09-MAR-89	23-MAR-90	04-MAR-91	05-DEC-87	22-MAR-88
NORTH COORDINATE:	481657.56	481657.56	481657.56	479160.31	479160.31
EAST COORDINATE:	1379094.87	1379094.87	1379094.87	1379581.26	1379581.26
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							433.0000		NV						
AMMONIA	MG/L							0.0800		NV				0.1000		U
CHEMICAL OXYGEN DEMAND	MG/L										14.0000		NV			
CHLORIDE	MG/L							64.0000		NV	4.0000		NV	3.0000		-
FLUORIDE	MG/L							0.4400		NV	1.1300		NV	0.5000		U
HEXAVALENT CHROMIUM	MG/L										0.0050		UNV	0.0200		UR
NITRATE	MG/L										0.5600		NV	5.0000		UR
NITRATE, AS NITROGEN	MG/L							0.0400		NV						
PH	STD							6.9000		NV	7.2600		NV	7.1400		J
PHENOLS	MG/L							0.0050		UNV	0.0050		NV	0.0100		U
PHOSPHORUS	MG/L							0.1000		UNV	0.1300		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM							1230.0000		NV	510.0000		NV	574.0000		-
SULFATE	MG/L							250.0000		NV	40.0000		NV	47.0000		-
TOTAL DISSOLVED SOLIDS	MG/L							808.0000		NV	344.0000		NV			
TOTAL ORGANIC CARBON	MG/L							20.0000		NV	4.7500		NV			
TOTAL ORGANIC HALIDES	MG/L										0.0280		NV			
TOTAL ORGANIC HALOGENS	MG/L							0.0880		NV						
TOTAL ORGANIC NITROGEN	MG/L													0.2000		-
HERBICIDES																
2,4,5-TP (SILVEX)	UG/L										500.0000		UNV			
2,4-D	UG/L										1000.0000		UNV			
INORGANICS																
ALUMINUM	MG/L							0.7900		NV						
ANTIMONY	MG/L							0.0250		UNV						
ARSENIC	MG/L							0.0050		NV	0.0025		UNV	0.0300		U
BARIUM	MG/L							0.2000		UNV	0.2000		UNV	0.0800		-

000719

SAMPLE NUMBER:	004039			EMGW_SYSGEN_20			EMGW_SYSGEN_21			003044			003059		
LAB:							NET			HOWARD			IT		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
BERYLLIUM	MG/L							0.0100		UNV						
CADMIUM	MG/L							0.0010		UNV	0.0010		UNV	0.0050		U
CALCIUM	MG/L							168.0000		NV	77.3000		NV			
CHROMIUM	MG/L							0.0050		UNV	0.0050		UNV	0.0100		U
COBALT	MG/L							0.0250		UNV						
COPPER	MG/L							0.0250		UNV	0.0250		UNV	0.0200		UJ
CYANIDE	MG/L							0.0050		UNV	0.0050		UNV			
IRON	MG/L							0.0500		UNV	0.0980		NV	0.1200		-
LEAD	MG/L							0.0050		UNV	0.0050		UNV	0.0300		U
MAGNESIUM	MG/L							60.0000		NV	19.7000		NV			
MANGANESE	MG/L							0.0200		UNV	0.3900		NV	0.0050		-
MERCURY	MG/L							0.0002		UNV	0.0003		UNV	0.0010		U
MOLYBDENUM	MG/L							0.0250		UNV				0.0100		U
NICKEL	MG/L							0.0050		UNV	0.0050		UNV	0.0200		U
POTASSIUM	MG/L							1.0000		UNV	0.9700		NV			
SELENIUM	MG/L							0.0025		UNV	0.0025		UNV	0.0600		U
SILVER	MG/L							0.0010		UNV	0.0300		UNV	0.0050		U
SODIUM	MG/L							82.2000		NV	2.6700		NV	3.6000		-
THALLIUM	MG/L							0.0100		UNV						
VANADIUM	MG/L							0.0500		UNV						
ZINC	MG/L							0.0200		UNV	0.0200		UNV			
MISC																
ALACHLOR	UG/L										2000.0000		UNV			
ATRAZINE	UG/L										1000.0000		UNV			
CARBOFURAN	UG/L										1000000.00		UNV			
CYANAZINE	UG/L										1000.0000		UNV			
FONOFOS	UG/L										1000.0000		UNV			
LINURON	UG/L										1000.0000		UNV			
METOLACHLOR	UG/L										1000.0000		UNV			
METRIBUZIN	UG/L										1000.0000		UNV			
SIMIZINE	UG/L										1000.0000		UNV			
TERBUFOS	UG/L										1000.0000		UNV			
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV						
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L	0.5000		U												
DEMETON	UG/L	0.2500		U												
DIAZINON	UG/L	0.2500		U												
DISULFOTON	UG/L	0.2500		U												
ETHION	UG/L	0.2500		U												
MALATHION	UG/L	0.2500		U												
METHYL PARATHION	UG/L	0.2500		U												

SAMPLE NUMBER:		004039			EMGW_SYSGEN_20			EMGW_SYSGEN_21			003044			003059		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
PARATHION	UG/L	0.2500		U												
PHOSPHORODITHIOIC ACID,	UG/L										1000.0000		UNV			
PESTICIDES																
ENDRIN	UG/L										200.0000		UNV			
GAMMA-BHC (LINDANE)	UG/L										200.0000		UNV			
METHOXYCHLOR	UG/L										200.0000		UNV			
TOXAPHENE	UG/L										500.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	897.000000		-	350.0000		NV	326.0000		NV				10.8000	1.8	J
URANIUM, TOTAL	UG/L	2286.00001		-	1040.0000		NV	907.0000		NV				28.0000	5	J
URANIUM-234	PCI/L	176.00009.9		-	83.2000		NV	79.5000		NV				8.3000	1.5	J
THORIUM-230	PCI/L	1.0000		U				0.4210		NV				1.0000		U
RADIUM-226	PCI/L	1.0000		U				1.0000		UNV				1.0000		UJ
URANIUM-235/236	PCI/L	23.40002.8		-	10.4000		NV	8.9300		NV				1.0000		UJ
THORIUM-232	PCI/L	1.0000		U				0.2400		UNV				1.0000		U
THORIUM, TOTAL	UG/L	3.0000		U				2.2000		UNV						
RADIUM-228	PCI/L	3.0000		UJ				3.0000		UNV				3.0000		UJ
THORIUM-228	PCI/L	1.0000		U				0.2930		NV				1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		U				0.5000		UNV				1.0000		UJ
PLUTONIUM-239/240	PCI/L	1.0000		U				0.5000		UNV				1.0000		UJ
PLUTONIUM-238	PCI/L	1.0000		U				0.5000		UNV				1.0000		UJ
STRONTIUM-90	PCI/L	5.0000		U										5.0000		UJ
TECHNETIUM-99	PCI/L	30.0000		R				23.0000		UNV				30.0000		UJ
RUTHENIUM-106	PCI/L	150.0000		R				150.0000		UNV				150.0000		R
CESIUM-137	PCI/L	20.0000		R				7.7000		UNV				20.0000		R
GROSS ALPHA	PCI/L							460.0000		NV	5.0000		NV			
GROSS BETA	PCI/L							426.0000		NV	12.0000		NV			
RADIUM, TOTAL	UG/L										1.0000		NV			
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV						
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV						
1,1-DICHLOROETHANE	UG/L							2.3000		NV						
1,1-DICHLOROETHENE	UG/L							1.0000		UNV						
1,2-DICHLOROETHANE	UG/L							1.0000		UNV						

SAMPLE NUMBER:	004039			EMGW_SYSGEN_20			EMGW_SYSGEN_21			003044			003059		
LAB:							NET								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHENE (TOTAL) UG/L							8.5000		NV						
1,2-DICHLOROPROPANE UG/L							1.0000		UNV						
2-BUTANONE UG/L							2.0000		UNV						
2-HEXANONE UG/L							2.0000		UNV						
4-METHYL-2-PENTANONE UG/L							2.0000		UNV						
ACETONE UG/L							2.0000		UNV						
BENZENE UG/L							1.0000		UNV						
BROMODICHLOROMETHANE UG/L							1.0000		UNV						
BROMOFORM UG/L							1.0000		UNV						
BROMOMETHANE UG/L							1.0000		UNV						
CARBON DISULFIDE UG/L							1.0000		UNV						
CARBON TETRACHLORIDE UG/L							1.0000		UNV						
CHLOROBENZENE UG/L							1.0000		UNV						
CHLOROETHANE UG/L							1.0000		UNV						
CHLOROFORM UG/L							1.0000		UNV						
CHLOROMETHANE UG/L							1.0000		UNV						
CIS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV						
DIBROMOCHLOROMETHANE UG/L							1.0000		UNV						
ETHYLBENZENE UG/L							1.0000		UNV						
METHYLENE CHLORIDE UG/L							1.0000		UNV						
STYRENE UG/L							1.0000		UNV						
TETRACHLOROETHENE UG/L							1.0000		UNV						
TOLUENE UG/L							1.0000		UNV						
TRANS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV						
TRICHLOROETHENE UG/L							1.0000		UNV						
VINYL ACETATE UG/L							2.0000		UNV						
VINYL CHLORIDE UG/L							1.0000		UNV						
XYLENES, TOTAL UG/L							1.0000		UNV						

000722

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003429			003669			003903			066821			118172			
TASK:		3.2.4			3.2.4			3.2.4			9.27			50.03.23			
LAB:		IT			IT			IT			IT			LOCKHEED			
WELL OR BORING NUMBER:		1020			1020			1020			1020			1020			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		27-JUL-88			08-NOV-88			26-FEB-89			15-DEC-89			02-MAY-93			
NORTH COORDINATE:		479160.31			479160.31			479160.31			479160.31			479160.31			
EAST COORDINATE:		1379581.26			1379581.26			1379581.26			1379581.26			1379581.26			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
AMMONIA	MG/L	0.1000		UJ	0.1000		U	0.2000		-				0.1300		J	
CHLORIDE	MG/L	2.6000		J	1.5000		-	2.1000		U				3.4000		-	
FLUORIDE	MG/L	0.7800		R	0.1000		-	0.2000		-				0.2000		-	
NITRATE	MG/L	0.1500		J	0.1000		U	0.0300		-							
NITRATE/NITRITE	MG/L													0.0810		-	
PHENOLS	MG/L	0.0500		U	0.0100		U	0.0050		U				0.1500		U	
PHOSPHORUS	MG/L	0.1200		R	0.0200		U	0.0900		-				0.0690		-	
SULFATE	MG/L	46.0000		R	124.0000		-	30.0000		-				6200.0000		J	
TOTAL KJELDAHL NITROGEN	MG/L				0.3900		U	1.5000		-							
TOTAL ORGANIC CARBON	MG/L													3.2000		-	
TOTAL ORGANIC HALIDES	MG/L				0.0500		U	0.0500		U				0.0450		U	
TOTAL ORGANIC NITROGEN	MG/L	0.1000		UJ	0.3900		-	1.3000		-							
INORGANICS																	
ALUMINUM	MG/L													0.0427		-	
ANTIMONY	MG/L													0.0270		U	
ARSENIC	MG/L	0.0100		UJ	0.0020		U	0.0030		U				0.0020		U	
BARIUM	MG/L	0.2000		U	0.0800		-	0.0390		-				0.0697		-	
BERYLLIUM	MG/L													0.0010		U	
CADMIUM	MG/L	0.0050		U	0.0030		-	0.0050		U				0.0039		U	
CALCIUM	MG/L	94.0000		J	79.0000		-	71.0000		-				103.0000		J	
CHROMIUM	MG/L	0.0100		U	0.0200		U	0.0200		-				0.0040		U	
COBALT	MG/L													0.0050		U	
COPPER	MG/L	0.0250		U	0.0100		U	0.0100		U				0.0030		U	
CYANIDE	MG/L													0.0200		U	
IRON	MG/L	0.1000		-	0.1000		-	0.0600		U				1.1400		J	
LEAD	MG/L	0.2000		U	0.0020		U	0.0020		U				0.0010		U	
MAGNESIUM	MG/L	32.0000		-	20.8000		-	16.0000		-				33.9000		-	
MANGANESE	MG/L	1.3000		-	0.3000		-	0.0530		-				0.7390		-	

000223

SAMPLE NUMBER:		003429			003669			003903			066821			118172		
LAB:		IT			IT			IT						LOCKHEED		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0007		U	0.0002		U	0.0003		J				0.0002		U
MOLYBDENUM	MG/L	0.0500		U	0.0200		U	0.0100		U				0.0110		U
NICKEL	MG/L	0.0400		U	0.0200		U	0.0300		U				0.0110		U
POTASSIUM	MG/L	5.0000		U	1.1000		-	1.5000		-				1.0000		U
SELENIUM	MG/L	0.0050		U	0.0020		U	0.0050		U				0.0020		UJ
SILVER	MG/L	0.0100		UJ	0.1000		U	0.0100		U				0.0040		-
SODIUM	MG/L	5.0000		-	2.3000		-	1.6000		-				3.5000		-
THALLIUM	MG/L													0.0010		UJ
VANADIUM	MG/L													0.0040		U
ZINC	MG/L													0.0030		U
RADIONUCLIDES																
URANIUM-238	PCI/L	10.4000	1.8	-	10.8000	1.4	J	63.8000	8	-	7.4400	1.05	-			
URANIUM, TOTAL	UG/L	20.0000	4	-	31.0000	5	-	198.0000	32	J	28.3000	4.9	-			
URANIUM-234	PCI/L	8.2000	1.5	-	8.2000	1.1	J	21.4000	3.1	-	5.5100	.83	-			
THORIUM-230	PCI/L	1.1000	.5	-	1.0000		UJ	1.0000		U	1.0700	.58	-			
RADIUM-226	PCI/L	1.9000	.6	-	1.0000		U	1.6000	.3	J						
URANIUM-235/236	PCI/L	1.0000		U	1.0000		UJ	1.3000	.5	-	1.0000		U			
THORIUM-232	PCI/L	1.0000		U	1.0000		UJ	1.0000		U						
THORIUM, TOTAL	UG/L	6.0000	3	-	2.0000		J	3.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		UJ						
THORIUM-228	PCI/L	1.1000	.5	-	1.0000		UJ	1.0000		U	1.8000	.72	-			
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		UJ	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		R	1.0000		UJ	1.0000		U						
PLUTONIUM-238	PCI/L	1.0000		R	1.0000		UJ	1.0000		U						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		UJ	30.0000		U			
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													11.0000		U
1,2-DICHLOROBENZENE	UG/L													11.0000		U
1,3-DICHLOROBENZENE	UG/L													11.0000		U
1,4-DICHLOROBENZENE	UG/L													11.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													27.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													11.0000		U
2,4-DICHLOROPHENOL	UG/L													11.0000		U
2,4-DIMETHYLPHENOL	UG/L													11.0000		U
2,4-DINITROPHENOL	UG/L													27.0000		UJ
2,4-DINITROTOLUENE	UG/L													11.0000		U
2,6-DINITROTOLUENE	UG/L													11.0000		U
2-CHLORONAPHTHALENE	UG/L													11.0000		U

SAMPLE NUMBER:	003429			003669			003903			066821			118172		
LAB:													LOCKHEED		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2-CHLOROPHENOL UG/L													11.0000		U
2-METHYLNAPHTHALENE UG/L													11.0000		U
2-METHYLPHENOL UG/L													11.0000		U
2-NITROANILINE UG/L													27.0000		U
2-NITROPHENOL UG/L													11.0000		U
3,3'-DICHLOROBENZIDINE UG/L													11.0000		UJ
3-NITROANILINE UG/L													27.0000		UJ
4,6-DINITRO-2-METHYLPHENOL UG/L													27.0000		U
4-BROMOPHENYL PHENYL ETHER UG/L													11.0000		U
4-CHLORO-3-METHYLPHENOL UG/L													11.0000		U
4-CHLOROPHENYLPHENYL ETHER UG/L													11.0000		U
4-METHYLPHENOL UG/L													11.0000		U
4-NITROANILINE UG/L													27.0000		UJ
4-NITROPHENOL UG/L													27.0000		UJ
ACENAPHTHENE UG/L													11.0000		U
ACENAPHTHYLENE UG/L													11.0000		U
ANTHRACENE UG/L													11.0000		U
BENZO(A)ANTHRACENE UG/L													11.0000		U
BENZO(A)PYRENE UG/L													11.0000		U
BENZO(B)FLUORANTHENE UG/L													11.0000		U
BENZO(G,H,I)PERYLENE UG/L													11.0000		U
BENZO(K)FLUORANTHENE UG/L													11.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L													11.0000		U
BIS(2-CHLOROETHYL)ETHER UG/L													11.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L													11.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													16.0000		-
BUTYL BENZYL PHTHALATE UG/L													11.0000		U
CARBAZOLE UG/L													11.0000		UJ
CHRYSENE UG/L													11.0000		U
DI-N-BUTYL PHTHALATE UG/L													11.0000		U
DI-N-OCTYL PHTHALATE UG/L													11.0000		UJ
DIBENZO(A,H)ANTHRACENE UG/L													11.0000		U
DIBENZOFURAN UG/L													11.0000		U
DIETHYL PHTHALATE UG/L													11.0000		U
DIMETHYL PHTHALATE UG/L													11.0000		U
FLUORANTHENE UG/L													11.0000		U
FLUORENE UG/L													11.0000		U
HEXACHLOROBENZENE UG/L													11.0000		U
HEXACHLOROBUTADIENE UG/L													11.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L													11.0000		U
HEXACHLOROETHANE UG/L													11.0000		U
INDENO(1,2,3-CD)PYRENE UG/L													11.0000		U
ISOPHORONE UG/L													11.0000		U
N-NITROSO-DI-N-PROPYLAMINE UG/L													11.0000		U
N-NITROSODIPHENYLAMINE UG/L													11.0000		U

SAMPLE NUMBER:	003429			003669			003903			066821			118172		
LAB:													LOCKHEED		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
NAPHTHALENE UG/L													11.0000		U
NITROBENZENE UG/L													11.0000		U
P-CHLOROANILINE UG/L													11.0000		UJ
PENTACHLOROPHENOL UG/L													27.0000		U
PHENANTHRENE UG/L													11.0000		U
PHENOL MG/L													11.0000		U
PYRENE UG/L													11.0000		U
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE UG/L													10.0000		U
1,1,2-TRICHLOROETHANE UG/L													10.0000		U
1,1-DICHLOROETHANE UG/L													10.0000		UJ
1,1-DICHLOROETHENE UG/L													10.0000		U
1,2-DICHLOROETHANE UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L													10.0000		U
1,2-DICHLOROPROPANE UG/L													10.0000		U
2-BUTANONE UG/L													10.0000		UJ
2-HEXANONE UG/L													10.0000		UJ
4-METHYL-2-PENTANONE UG/L													10.0000		U
ACETONE UG/L													10.0000		UJ
BENZENE UG/L													10.0000		UJ
BROMODICHLOROMETHANE UG/L													10.0000		U
BROMOFORM UG/L													10.0000		UJ
BROMOMETHANE UG/L													10.0000		U
CARBON DISULFIDE UG/L													10.0000		U
CARBON TETRACHLORIDE UG/L													10.0000		U
CHLOROBENZENE UG/L													10.0000		UJ
CHLOROETHANE UG/L													10.0000		UJ
CHLOROFORM UG/L													10.0000		U
CHLOROMETHANE UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE UG/L													10.0000		U
DIBROMOCHLOROMETHANE UG/L													10.0000		U
ETHYLBENZENE UG/L													10.0000		UJ
METHYLENE CHLORIDE UG/L													10.0000		UJ
STYRENE UG/L													10.0000		UJ
TETRACHLOROETHENE UG/L													10.0000		U
TOLUENE UG/L													10.0000		UJ
TRANS-1,3-DICHLOROPROPENE UG/L													10.0000		U
TRICHLOROETHENE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		UJ
XYLENES, TOTAL UG/L													10.0000		UJ

000726

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118176	118177	EMGW_SYSGEN_23	EMGW_SYSGEN_24	EMGW_SYSGEN_25
TASK:	50.03.23	50.03.23	GWMON	GWMON	GWMON
LAB:	CORE	CORE	NET	NET	NET
WELL OR BORING NUMBER:	1020	1020	1020	1020	1020
DEPTH:	-	-	-	-	-
DATE COLLECTED:	02-MAY-93	02-MAY-93	21-FEB-90	21-MAY-90	28-JUN-90
NORTH COORDINATE:	479160.31	479160.31	479160.31	479160.31	479160.31
EAST COORDINATE:	1379581.26	1379581.26	1379581.26	1379581.26	1379581.26
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L										3.0000		NV	3.0000		NV
NITRATE, AS NITROGEN	MG/L										0.0200		UNV	0.0200		NV
SULFATE	MG/L										39.0000		NV	56.0000		NV
TOTAL ORGANIC CARBON	MG/L										11.0000		NV	3.0000		NV
TOTAL ORGANIC HALOGENS	MG/L										0.0100		UNV	0.0100		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	5.6000	1	J	4.7000	.8	J				5.7100		NV	4.6700		NV
URANIUM, TOTAL	UG/L	16.6000	1.2	J	15.6000	1.1	-				16.5000		NV	14.0000		NV
URANIUM-234	PCI/L	4.8000	.9	J	3.7000	.7	J				3.8900		NV	3.4400		NV
THORIUM-230	PCI/L	0.2000	.2	UJ	0.2000	.2	UJ				0.4410		NV	0.3400		UNV
RADIUM-226	PCI/L	1.0000	.5	UJ	1.0000	.6	U				1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L	0.2000	.5	UJ	0.3000	.3	J				0.5580		NV	0.3100		UNV
THORIUM-232	PCI/L	0.2000	.2	UJ	0.2000	.2	UJ				0.3000		UNV	0.3400		UNV
THORIUM, TOTAL	UG/L				0.9120	.2	NV				2.7000		UNV	3.1000		UNV
RADIUM-228	PCI/L	3.0000	1.3	UJ	3.0000	1.5	U				3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L	0.2000	.2	UJ	0.3000	.1	UJ				0.4860		NV	1.1600		NV
TECHNETIUM-99	PCI/L				15.0000	6.7	UJ									
GROSS ALPHA	PCI/L	6.4000	1.8	NV	6.0000	3.3	NV				258.0000		NV	15.0000		UNV
GROSS BETA	PCI/L	6.4000	2	NV	33.7000	4	NV				24.0000		UNV	126.0000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV

SAMPLE NUMBER:	118176	118177	EMGW_SYSGEN_23	EMGW_SYSGEN_24	EMGW_SYSGEN_25
LAB:				NET	NET
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHENE (TOTAL)	UG/L							1.0000		UNV				1.0000		UNV
1,2-DICHLOROPROPANE	UG/L										1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L										2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L										2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L										2.0000		UNV	2.0000		UNV
ACETONE	UG/L										2.0000		UNV	2.0000		UNV
BENZENE	UG/L										1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L										1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L										1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L										1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L										1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
STYRENE	UG/L										1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
TOLUENE	UG/L										1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L										2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L							1.0000		UNV				1.0000		UNV

000728

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_26	EMGW_SYSGEN_27	003251	003507	003945
TASK:	GWMON	GWMON	3.2.4	3.2.4	3.2.4
LAB:	NET	NET	IT	IT	IT
WELL OR BORING NUMBER:	1020	1020	1021	1021	1021
DEPTH:	-	-	-	-	-
DATE COLLECTED:	11-SEP-90	06-DEC-90	01-JUN-88	18-AUG-88	12-MAR-89
NORTH COORDINATE:	479160.31	479160.31	481566.5	481566.5	481566.5
EAST COORDINATE:	1379581.26	1379581.26	1378897.33	1378897.33	1378897.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
2,3,7,8-TETRACHLORODIBENZO-P-DN	G/L							2.4000		U						
2,3,7,8-TETRACHLORODIBENZOFURAN	G/L							2.6000		U						
HEPTACHLORODIBENZO-P-DIOXINS	NG/L							0.8800		U						
HEPTACHLORODIBENZOFURANS	NG/L							1.1000		U						
HEXACHLORODIBENZO-P-DIOXINS	NG/L							1.6000		U						
HEXACHLORODIBENZOFURANS	NG/L							0.7700		U						
OCTACHLORODIBENZO-P-DIOXIN	NG/L							2.6000		U						
OCTACHLORODIBENZOFURAN	NG/L							2.0000		U						
PENTACHLORODIBENZO-P-DIOXINS	NG/L							0.5000		U						
PENTACHLORODIBENZOFURANS	NG/L							1.5000		U						
TETRACHLORODIBENZO-P-DIOXINS	NG/L							0.4100		U						
TETRACHLORODIBENZOFURANS	NG/L							0.6000		U						
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	291.0000		NV	259.0000		NV									
AMMONIA	MG/L				0.0400		NV	0.1000		U	0.1200		J			
CHLORIDE	MG/L	4.0000		NV	4.0000		NV	136.0000		-	15.5000		J			
FLUORIDE	MG/L	0.2200		NV	0.1800		NV	1.6000		-	1.7500		J			
NITRATE	MG/L							0.1000		-	0.1700		R			
NITRATE, AS NITROGEN	MG/L	0.0200		UNV												
NITRATE/NITRITE	MG/L				1.6800		NV									
PH	STD	6.9200		NV	6.9300		NV									
PHENOLS	MG/L	0.0060		NV	0.0070		NV	0.0100		U	0.1000		UJ			
PHOSPHORUS	MG/L				0.2800		NV	0.6100		-	0.1350		J			
SPECIFIC CONDUCTIVITY	UMHOS/CM	571.0000		NV	520.0000		NV									
SULFATE	MG/L	53.0000		NV	55.0000		NV	305.0000		-	184.0000		-			
TOTAL DISSOLVED SOLIDS	MG/L	385.0000		NV	326.0000		NV									
TOTAL ORGANIC CARBON	MG/L	4.0000		NV	7.0000		NV									
TOTAL ORGANIC HALIDES	MG/L										0.0500		U			

000729

SAMPLE NUMBER:		EMGW_SYSGEN_26			EMGW_SYSGEN_27			003251			003507			003945		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U	0.3000		J			
INORGANICS																
ALUMINUM	MG/L							0.0500		U						
ANTIMONY	MG/L							0.0023		J						
ARSENIC	MG/L							0.0020		UJ	0.2000		U			
BARIUM	MG/L							0.1270		J	0.2000		-			
BERYLLIUM	MG/L							0.0010		U						
CADMIUM	MG/L							0.0020		U	0.0020		U			
CALCIUM	MG/L							103.8000		-	127.0000		-			
CHROMIUM	MG/L							0.0200		U	0.0200		U			
COBALT	MG/L							0.0100		U						
COPPER	MG/L							0.0100		UJ	0.0100		U			
CYANIDE	MG/L				0.0050		UNV	0.0100		U						
IRON	MG/L							0.0050		U	0.6510		-			
LEAD	MG/L							0.0020		UJ	0.0500		U			
MAGNESIUM	MG/L							30.0000		-	43.4000		-			
MANGANESE	MG/L							0.7910		J	2.1000		-			
MERCURY	MG/L							0.0002		U	0.0002		U			
MOLYBDENUM	MG/L							0.0290		-	0.0200		U			
NICKEL	MG/L							0.0200		U	0.0200		U			
POTASSIUM	MG/L							2.0600		-	2.3000		-			
SELENIUM	MG/L							0.0021		J	0.2000		U			
SILVER	MG/L							0.0005		UJ	0.0100		U			
SODIUM	MG/L							8.8800		-	10.3000		-			
THALLIUM	MG/L							0.0010		UJ						
VANADIUM	MG/L							0.0100		U						
ZINC	MG/L							0.0100		UJ						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L							5.0000		UJ						
DEMETON	UG/L							1.0000		UJ						
DIAZINON	UG/L							0.5000		UJ						
DISULFOTON	UG/L							0.5000		UJ						
ETHION	UG/L							0.5000		UJ						
MALATHION	UG/L							1.0000		UJ						
METHYL PARATHION	UG/L							1.0000		UJ						
PARATHION	UG/L							0.5000		UJ						

5704

SAMPLE NUMBER:		EMGW_SYSGEN_26			EMGW_SYSGEN_27			003251			003507			003945		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDD	UG/L							0.2000		U						
4,4'-DDE	UG/L							0.2000		U						
4,4'-DDT	UG/L							0.2000		U						
ALDRIN	UG/L							0.1000		U						
ALPHA-BHC	UG/L							0.1000		U						
ALPHA-CHLORDANE	UG/L							1.0000		U						
AROCLOR-1016	UG/L							1.0000		U						
AROCLOR-1221	UG/L							1.0000		U						
AROCLOR-1232	UG/L							1.0000		U						
AROCLOR-1242	UG/L							1.0000		U						
AROCLOR-1248	UG/L							1.0000		U						
AROCLOR-1254	UG/L							2.0000		U						
AROCLOR-1260	UG/L							2.0000		U						
BETA-BHC	UG/L							0.1000		U						
DELTA-BHC	UG/L							0.1000		U						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.2000		U						
ENDOSULFAN SULFATE	UG/L							0.2000		U						
ENDOSULFAN-I	UG/L							0.1000		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN KETONE	UG/L							0.2000		U						
GAMMA-BHC (LINDANE)	UG/L							0.1000		U						
GAMMA-CHLORDANE	UG/L							1.0000		U						
HEPTACHLOR	UG/L							0.1000		U						
HEPTACHLOR EPOXIDE	UG/L							0.1000		U						
METHOXYCHLOR	UG/L							1.0000		U						
TOXAPHENE	UG/L							2.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L	2.6800		NV	8.9900		NV	6300.0000	820	-	3879.0000	920	J	3163.0000	1573	J
URANIUM, TOTAL	UG/L	8.0400		NV	0.0000			15330.0000	2403	J	10000.0000	2000	J	9117.0000	1521	-
URANIUM-234	PCI/L	1.8700		NV	8.8500		NV	1400.0000	190	-	802.0000	192	J	691.0000	347	J
THORIUM-230	PCI/L	0.7660		NV	0.6700		UNV	2.1000	.5	-	1.3000	.4	J	4.6000	1.1	J
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV	1.0000		U	1.0000		R	1.0000		U
URANIUM-235/236	PCI/L	0.3700		UNV	0.8680		NV	160.0000	25	-	117.0000	30	J	83.6000	45.7	J
THORIUM-232	PCI/L	0.3700		UNV	0.6700		UNV	9.8000	1.6	-	2.4000	.5	J	2.7000	.8	J
THORIUM, TOTAL	UG/L	3.3000		UNV	6.1000		UNV	89.3761	1.6	NV	2.0000		R	24.0000	7	J
RADIUM-228	PCI/L	3.0000		UNV	3.3000		UNV	3.0000		U	3.0000		U	3.0000		R
THORIUM-228	PCI/L	0.3700		UNV	1.3600		NV	1.0000		U	1.0000		UJ	3.4000	.9	J
NEPTUNIUM-237	PCI/L							1.0000		U	1.0000		UJ	1.0000		UJ
PLUTONIUM-239/240	PCI/L							1.0000		U	1.0000		U	1.0000		UJ
PLUTONIUM-238	PCI/L							1.0000		U	1.0000		U	1.0000		UJ
STRONTIUM-90	PCI/L							5.0000		U	5.0000		U			
TECHNETIUM-99	PCI/L							30.0000		U	30.0000		UJ	30.0000		UJ

000231

SAMPLE NUMBER:		EMGW_SYSGEN_26			EMGW_SYSGEN_27			003251			003507			003945		
LAB:								IT			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			F-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RUTHENIUM-106	PCI/L							150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L							20.0000		R	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	11.0000		UNV	19.5000		NV									
GROSS BETA	PCI/L	6.6000		NV	20.9000		NV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							20.0000		U						
1,2-DICHLOROBENZENE	UG/L							20.0000		U						
1,3-DICHLOROBENZENE	UG/L							20.0000		U						
1,4-DICHLOROBENZENE	UG/L							20.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							100.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							20.0000		U						
2,4-DICHLOROPHENOL	UG/L							20.0000		U						
2,4-DIMETHYLPHENOL	UG/L							20.0000		U						
2,4-DINITROPHENOL	UG/L							100.0000		U						
2,4-DINITROTOLUENE	UG/L							20.0000		U						
2,6-DINITROTOLUENE	UG/L							20.0000		U						
2-CHLOROETHYLVINYL ETHER	UG/L	60.0000		UNV	10.0000		UNV									
2-CHLORONAPHTHALENE	UG/L							20.0000		U						
2-CHLOROPHENOL	UG/L							20.0000		U						
2-METHYLNAPHTHALENE	UG/L							20.0000		U						
2-METHYLPHENOL	UG/L							20.0000		U						
2-NITROANILINE	UG/L							100.0000		U						
2-NITROPHENOL	UG/L							20.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							40.0000		U						
3-NITROANILINE	UG/L							100.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							100.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							20.0000		UJ						
4-CHLORO-3-METHYLPHENOL	UG/L							20.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							20.0000		U						
4-METHYLPHENOL	UG/L							20.0000		U						
4-NITROANILINE	UG/L							100.0000		U						
4-NITROPHENOL	UG/L							100.0000		U						
ACENAPHTHENE	UG/L							20.0000		U						
ACENAPHTHYLENE	UG/L							20.0000		U						
ANTHRACENE	UG/L							20.0000		U						
BENZO(A)ANTHRACENE	UG/L							20.0000		U						
BENZO(A)PYRENE	UG/L							20.0000		U						
BENZO(B)FLUORANTHENE	UG/L							20.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							20.0000		UJ						
BENZO(K)FLUORANTHENE	UG/L							20.0000		U						
BENZOIC ACID	UG/L							100.0000		U						
BENZYL ALCOHOL	UG/L							20.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L							20.0000		U						

000732

5704

SAMPLE NUMBER:		EMGW_SYSGEN_26			EMGW_SYSGEN_27			003251			003507			003945		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BIS(2-CHLOROETHYL)ETHER	UG/L							20.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							20.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							20.0000		UJ						
BUTYL BENZYL PHTHALATE	UG/L							20.0000		U						
CHRYSENE	UG/L							20.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							20.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							20.0000		UJ						
DIBENZO(A,H)ANTHRACENE	UG/L							20.0000		U						
DIBENZOFURAN	UG/L							20.0000		U						
DIETHYL PHTHALATE	UG/L							20.0000		U						
DIMETHYL PHTHALATE	UG/L							20.0000		U						
FLUORANTHENE	UG/L							20.0000		U						
FLUORENE	UG/L							20.0000		U						
HEXACHLOROBENZENE	UG/L							20.0000		UJ						
HEXACHLOROBUTADIENE	UG/L							20.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							20.0000		U						
HEXACHLOROETHANE	UG/L							20.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							20.0000		U						
ISOPHORONE	UG/L							20.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							20.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							100.0000		U						
NAPHTHALENE	UG/L							20.0000		U						
NITROBENZENE	UG/L							20.0000		U						
P-CHLOROANILINE	UG/L							20.0000		U						
PENTACHLOROPHENOL	UG/L							100.0000		UJ						
PHENANTHRENE	UG/L							20.0000		U						
PHENOL	MG/L							20.0000		U						
PYRENE	UG/L							20.0000		U						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		U						
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		U						
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		U						
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UJ						
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UJ						
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						

000733

SAMPLE NUMBER:	EMGW_SYSGEN_26			EMGW_SYSGEN_27		003251			003507			003945		
LAB:	NET			NET		IT								
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF		NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UJ						
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UJ						
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UJ						
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UJ						
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		U						
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		U						
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UJ						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_28	EMGW_SYSGEN_29	003154	003509	003755
TASK:	GWMON	GWMON	3.2.4	3.2.4	3.2.4
LAB:	IT	NET	IT	IT	IT
WELL OR BORING NUMBER:	1021	1021	1022	1022	1022
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-MAR-90	20-FEB-91	06-MAY-88	18-AUG-88	04-DEC-88
NORTH COORDINATE:	481566.5	481566.5	481706.62	481706.62	481706.62
EAST COORDINATE:	1378897.33	1378897.33	1378686.73	1378686.73	1378686.73
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
HEPTACHLORODIBENZO-P-DIOXINS	NG/L							2.4000		U						
HEPTACHLORODIBENZOFURANS	NG/L							1.6000		U						
HEXACHLORODIBENZO-P-DIOXINS	NG/L							0.7100		U						
HEXACHLORODIBENZOFURANS	NG/L							0.9500		U						
OCTACHLORODIBENZO-P-DIOXIN	NG/L							7.8000		U						
OCTACHLORODIBENZOFURAN	NG/L							6.5000		U						
PENTACHLORODIBENZO-P-DIOXINS	NG/L							1.1000		U						
PENTACHLORODIBENZOFURANS	NG/L							0.7200		U						
TETRACHLORODIBENZO-P-DIOXINS	NG/L							0.4400		U						
TETRACHLORODIBENZOFURANS	NG/L							0.6000		U						
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				338.0000		NV									
AMMONIA	MG/L				0.4400		NV	0.2000		-	0.1000		J			
CHLORIDE	MG/L				17.0000		NV	12.2000		-	67.5000		J			
FLUORIDE	MG/L				0.8600		NV	0.9000		-	0.9800		J			
NITRATE	MG/L							0.1000		J	0.1900		R			
NITRATE, AS NITROGEN	MG/L				0.0200		UNV									
PH	STD				6.7000		NV									
PHENOLS	MG/L				0.0050		UNV	0.0100		J	0.1000		UJ			
PHOSPHORUS	MG/L				0.7300		NV	0.7500		J	0.1450		J			
SPECIFIC CONDUCTIVITY	UMHOS/CM				679.0000		NV									
SULFATE	MG/L				107.0000		NV	1180.0000		-	1120.0000		-			
TOTAL DISSOLVED SOLIDS	MG/L				268.0000		NV									
TOTAL ORGANIC CARBON	MG/L				18.0000		NV									
TOTAL ORGANIC HALIDES	MG/L										0.0500		U			
TOTAL ORGANIC HALOGENS	MG/L				0.0280		NV									
TOTAL ORGANIC NITROGEN	MG/L							1.3000		-	0.4000		J			

000735

INORGANICS

ALUMINUM MG/L 0.5000 UNV

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 57

SAMPLE NUMBER:	EMGW_SYSGEN_28			EMGW_SYSGEN_29			003154			003509			003755		
LAB:				NET											
SUFFIX/FILTERFLAG:	-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ANTIMONY	MG/L				0.0250		UNV									
ARSENIC	MG/L				0.0110		NV	0.2000		U	0.2000		U			
BARIUM	MG/L				0.4860		NV	0.0250		-	0.0400		-			
BERYLLIUM	MG/L				0.0100		UNV									
CADMIUM	MG/L				0.0010		UNV	0.0050		U	0.0020		U			
CALCIUM	MG/L				483.0000		NV	312.0000		-	494.0000		-			
CHROMIUM	MG/L				0.5000		NV	0.0200		U	0.0200		U			
COBALT	MG/L				0.0250		UNV									
COPPER	MG/L				0.1990		NV	0.0100		U	0.0100		U			
CYANIDE	MG/L				0.0100		UNV									
IRON	MG/L				340.0000		NV	0.0050		U	0.0270		U			
LEAD	MG/L				0.0670		NV	0.0500		U	0.0500		U			
MAGNESIUM	MG/L				166.0000		NV	95.0000		-	147.0000		-			
MANGANESE	MG/L				11.1000		NV	0.3150		-	2.1000		-			
MERCURY	MG/L				0.0002		UNV	0.0002		U	0.0002		U			
MOLYBDENUM	MG/L				0.0540		NV	0.0200		U	0.0200		U			
NICKEL	MG/L				0.0050		UNV	0.0200		U	0.0200		U			
POTASSIUM	MG/L				1.8200		NV	2.3200		-	4.0000		-			
SELENIUM	MG/L				0.0025		UNV	0.2000		U	0.2000		U			
SILVER	MG/L				0.0020		NV	0.1740		-	0.0100		U			
SODIUM	MG/L				23.7000		NV	8.5000		-	22.7000		-			
THALLIUM	MG/L				0.0100		UNV									
VANADIUM	MG/L				3.2500		NV									
ZINC	MG/L				0.0360		NV									
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	932.0000		NV	214.0000		NV	1231.0000	207	-	1351.0000	169	J	1153.0000	227	J
URANIUM, TOTAL	UG/L	2780.0000		NV	2330.0000		NV	3800.0000	600	-	3500.0000	600	J	2703.0000	433	-
URANIUM-234	PCI/L	203.0000		NV	45.7000		NV	624.0000	105	-	661.0000	83	J	558.0000	111	J
THORIUM-230	PCI/L				8.4500		NV	6.6000	1.7	-	1.2000		UJ	1.0000		UJ
RADIUM-226	PCI/L				1.9900		NV	1.0000		R	1.0000		R	1.0000		U
URANIUM-235/236	PCI/L	25.6000		NV	5.1400		NV	48.6000	9.4	-	30.3000	4.2	J	36.6000	8.6	J
THORIUM-232	PCI/L				5.8500		NV	23.1000	4.4	-	2.5000	1.2	J	1.0000		UJ
THORIUM, TOTAL	UG/L				52.8000		NV	210.6727	4.4	NV	23.0000	11	J	4.0000		UJ
RADIUM-228	PCI/L				3.0000		UNV	3.0000		R	3.0000		UJ	3.0000		U
THORIUM-228	PCI/L				0.5510		NV	3.1000	1	-	1.4000	1	J	1.0000		

000736

5704

SAMPLE NUMBER:		EMGW_SYSGEN_28			EMGW_SYSGEN_29		003154			003509			003755		
LAB:					IT		IT			IT			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF		NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
NEPTUNIUM-237	PCI/L				0.5000	UNV	1.0000		R	1.0000		UJ	1.0000		UJ
PLUTONIUM-239/240	PCI/L				0.5000	UNV	1.0000		U	1.0000		U	1.0000		UJ
PLUTONIUM-238	PCI/L				0.5000	UNV	1.0000		U	1.0000		U	1.0000		UJ
STRONTIUM-90	PCI/L						5.0000		U	5.0000		U	5.0000		UJ
TECHNETIUM-99	PCI/L				15.0000	UNV	30.0000		UJ	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L				150.0000	UNV	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L				8.0000	UNV	20.0000		R	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L				847.0000	NV									
GROSS BETA	PCI/L				1390.0000	NV									
SEMIVOLATILES															
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000	UNV									
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L				1.0000	UNV									
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000	UNV									
1,1,2-TRICHLOROETHANE	UG/L				1.0000	UNV									
1,1-DICHLOROETHANE	UG/L				1.0000	UNV									
1,1-DICHLOROETHENE	UG/L				1.0000	UNV									
1,2-DICHLOROETHANE	UG/L				1.0000	UNV									
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000	UNV									
1,2-DICHLOROPROPANE	UG/L				1.0000	UNV									
2-BUTANONE	UG/L				2.0000	UNV									
2-HEXANONE	UG/L				2.0000	UNV									
4-METHYL-2-PENTANONE	UG/L				2.0000	UNV									
ACETONE	UG/L				2.0000	UNV									
BENZENE	UG/L				1.0000	UNV									
BROMODICHLOROMETHANE	UG/L				1.0000	UNV									
BROMOFORM	UG/L				1.0000	UNV									
BROMOMETHANE	UG/L				1.0000	UNV									
CARBON DISULFIDE	UG/L				1.0000	UNV									
CARBON TETRACHLORIDE	UG/L				1.0000	UNV									
CHLOROBENZENE	UG/L				1.0000	UNV									
CHLOROETHANE	UG/L				1.0000	UNV									
CHLOROFORM	UG/L				1.0000	UNV									
CHLOROMETHANE	UG/L				1.0000	UNV									
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000	UNV									
DIBROMOCHLOROMETHANE	UG/L				1.0000	UNV									
ETHYLBENZENE	UG/L				1.0000	UNV									
METHYLENE CHLORIDE	UG/L				1.0000	UNV									
STYRENE	UG/L				1.0000	UNV									
TETRACHLOROETHENE	UG/L				1.0000	UNV									
TOLUENE	UG/L				1.0000	UNV									

000737

SAMPLE NUMBER:	EMGW_SYSGEN_28	EMGW_SYSGEN_29	003154	003509	003755
LAB:		NET			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV									
TRICHLOROETHENE	UG/L				1.0000		UNV									
VINYL ACETATE	UG/L				2.0000		UNV									
VINYL CHLORIDE	UG/L				1.0000		UNV									
XYLENES, TOTAL	UG/L				1.0000		UNV									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003946	EMGW_SYSGEN_31	EMGW_SYSGEN_32	003106	003376
TASK:	3.2.4	GWMON	GWMON	3.2.4	3.2.4
LAB:	IT	IT	NET	IT	IT
WELL OR BORING NUMBER:	1022	1022	1022	1024	1024
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-MAR-89	23-MAR-90	11-FEB-91	21-APR-88	26-JUL-88
NORTH COORDINATE:	481706.62	481706.62	481706.62	482481.13	482481.13
EAST COORDINATE:	1378686.73	1378686.73	1378686.73	1378892.98	1378892.98
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							360.0000		NV						
AMMONIA	MG/L							0.1800		NV	0.5800		-	0.1000		U
CHLORIDE	MG/L							3.0000		NV	1.4000		J	18.0000		-
FLUORIDE	MG/L							0.6100		NV	0.8300		J	1.3000		-
NITRATE	MG/L										0.1000		R	0.1000		R
NITRATE, AS NITROGEN	MG/L							0.9400		NV						
PH	STD							7.0500		NV						
PHENOLS	MG/L							0.0050		UNV	0.0100		U	0.0500		U
PHOSPHORUS	MG/L							0.5200		NV	0.0500		UJ	0.1800		-
SPECIFIC CONDUCTIVITY	UMHOS/CM							1570.0000		NV						
SULFATE	MG/L							1200.0000		NV	50.0000		-	130.0000		-
TOTAL DISSOLVED SOLIDS	MG/L							1300.0000		NV						
TOTAL ORGANIC CARBON	MG/L							15.0000		NV						
TOTAL ORGANIC HALOGENS	MG/L							0.0100		UNV						
TOTAL ORGANIC NITROGEN	MG/L										0.1000		U	0.1000		U
INORGANICS																
ALUMINUM	MG/L							18.7000		NV						
ANTIMONY	MG/L							0.0250		UNV						
ARSENIC	MG/L							0.0080		NV	0.2000		UJ	0.0100		U
BARIUM	MG/L							0.5060		NV	0.0910		J	0.2000		U
BERYLLIUM	MG/L							0.0100		UNV						
CADMIUM	MG/L							0.0010		UNV	0.0050		UJ	0.0050		U
CALCIUM	MG/L							297.0000		NV	83.8000		-	130.0000		-
CHROMIUM	MG/L							0.0050		UNV	0.0200		UJ	0.1200		-
COBALT	MG/L							0.0250		UNV						
COPPER	MG/L							0.0510		NV	0.0100		UJ	0.0250		U
CYANIDE	MG/L							0.0050		UNV						
IRON	MG/L							28.8000		NV	0.6670		J	4.9000		-

SAMPLE NUMBER:	003946			EMGW_SYSGEN_31			EMGW_SYSGEN_32			003106			003376		
LAB:							NET			IT			IT		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L							0.0050		UNV	0.0500		UJ	0.2000		U
MAGNESIUM	MG/L							42.0000		NV	40.5000		-	31.0000		-
MANGANESE	MG/L							0.3410		NV	0.0800		J	0.2200		-
MERCURY	MG/L							0.0002		UNV	0.0002		UJ	0.0004		-
MOLYBDENUM	MG/L							0.0250		UNV	0.0200		UJ	0.0500		U
NICKEL	MG/L							0.0050		UNV	0.0210		J	0.1800		-
POTASSIUM	MG/L							5.5900		NV	1.6400		J	5.0000		U
SELENIUM	MG/L							0.0025		UNV	0.2000		UJ	0.0050		U
SILVER	MG/L							0.0010		UNV	0.0100		UJ	0.0100		U
SODIUM	MG/L							20.7000		NV	19.7000		-	12.0000		-
THALLIUM	MG/L							0.0100		UNV						
VANADIUM	MG/L							0.0500		UNV						
ZINC	MG/L							0.0200		UNV						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L	1460.00801		J	4130.0000		NV	640.0000		NV	1.0000		U	1.0000		U
URANIUM, TOTAL	UG/L	3605.00885		-	12400.0000		NV	1500.0000		NV	1.0000		U	2.0000	1	J
URANIUM-234	PCI/L	660.00091		J	2120.0000		NV	352.0000		NV	1.0000		U	1.7000	.4	J
THORIUM-230	PCI/L	4.5000	1.6	J				1.1800		NV	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		U				1.0000		UNV	1.0000		R	1.0000		U
URANIUM-235/236	PCI/L	42.80006.6		J	160.0000		NV	25.1000		NV	1.0000		U	1.0000		U
THORIUM-232	PCI/L	2.1000	1.1	J				0.6290		NV	1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L	19.000010		J				5.6700		NV				3.0000		U
RADIUM-228	PCI/L	3.0000		R				3.0000		UNV	3.0000		U	3.0000		U
THORIUM-228	PCI/L	2.9000	1.2	J				1.7300		NV	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		UJ				0.5000		UNV	1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L	1.0000		UJ				0.5000		UNV	1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L	1.0000		UJ				0.5000		UNV	1.0000		U	1.0000		U
STRONTIUM-90	PCI/L	5.0000		U							5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L	30.4000		UJ				15.0000		UNV	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R				150.0000		UNV	150.0000		R	150.0000		R
CESIUM-137	PCI/L	20.0000		R				6.6000		UNV	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L							898.0000		NV						
GROSS BETA	PCI/L							720.0000		NV						
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV						

000740

5704

VOLATILES																	
1,1,1-TRICHLOROETHANE	UG/L									1.0000		UNV					
06/20/94																	

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003946			EMGW_SYSGEN_31			EMGW_SYSGEN_32			003106			003376		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV						
1,1-DICHLOROETHANE	UG/L							1.0000		UNV						
1,1-DICHLOROETHENE	UG/L							1.0000		UNV						
1,2-DICHLOROETHANE	UG/L							1.0000		UNV						
1,2-DICHLOROETHENE (TOTAL)	UG/L							1.0000		UNV						
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV						
2-BUTANONE	UG/L							2.0000		UNV						
2-HEXANONE	UG/L							2.0000		UNV						
4-METHYL-2-PENTANONE	UG/L							2.0000		UNV						
ACETONE	UG/L							2.0000		UNV						
BENZENE	UG/L							1.0000		UNV						
BROMODICHLOROMETHANE	UG/L							1.0000		UNV						
BROMOFORM	UG/L							1.0000		UNV						
BROMOMETHANE	UG/L							1.0000		UNV						
CARBON DISULFIDE	UG/L							1.0000		UNV						
CARBON TETRACHLORIDE	UG/L							1.0000		UNV						
CHLOROBENZENE	UG/L							1.0000		UNV						
CHLOROETHANE	UG/L							1.0000		UNV						
CHLOROFORM	UG/L							1.0000		UNV						
CHLOROMETHANE	UG/L							1.0000		UNV						
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV						
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV						
ETHYLBENZENE	UG/L							1.0000		UNV						
METHYLENE CHLORIDE	UG/L							1.0000		UNV						
STYRENE	UG/L							1.0000		UNV						
TETRACHLOROETHENE	UG/L							1.0000		UNV						
TOLUENE	UG/L							1.0000		UNV						
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV						
TRICHLOROETHENE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L							2.0000		UNV						
VINYL CHLORIDE	UG/L							1.0000		UNV						
XYLENES, TOTAL	UG/L							1.0000		UNV						

000931

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003657			003847			066420			066497			066650		
TASK:		3.2.4			3.2.4			9.25			9.25			9.27		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1024			1024			1024			1024			1024		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		02-NOV-88			22-JAN-89			26-JUN-89			10-AUG-89			21-NOV-89		
NORTH COORDINATE:		482481.13			482481.13			482481.13			482481.13			482481.13		
EAST COORDINATE:		1378892.98			1378892.98			1378892.98			1378892.98			1378892.98		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.5500		-	0.2000		-									
CHLORIDE	MG/L	1.9000		-	1.5000		U	0.5000		U	1.5000		-			
FLUORIDE	MG/L	0.9400		J	1.0000		-	0.9400		-	0.9800		-			
NITRATE	MG/L	0.1000		R	0.0500		R	0.1000		R	0.1000		R			
PHENOLS	MG/L	0.0300		-	0.0100		U									
PHOSPHORUS	MG/L	0.0260		-	0.1000		-									
SULFATE	MG/L	109.0000		J	48.0000		-	49.1000		-	55.7000		-			
TOTAL KJELDAHL NITROGEN	MG/L	0.6800		-	0.2000		-									
TOTAL ORGANIC CARBON	MG/L							3.2660		U	1.0000		U			
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0100		U	0.0670		J	0.1260		-			
TOTAL ORGANIC NITROGEN	MG/L	0.1300		J	0.1000		U									
INORGANICS																
ALUMINUM	MG/L							0.1206		-	0.1230		-			
ARSENIC	MG/L	0.0020		U	0.0030		U									
BARIUM	MG/L	0.0900		-	0.0900		-	0.0944		-	0.1120		-			
BERYLLIUM	MG/L							0.0018		-	0.0010		-			
CADMIUM	MG/L	0.0020		U	0.0070		-									
CALCIUM	MG/L	90.4000		-	89.0000		-	89.2000		-	95.6000		-			
CHROMIUM	MG/L	0.0200		U	0.0220		-	0.0345		-	0.0250		-			
COBALT	MG/L							0.0100		U	0.0100		U			
COPPER	MG/L	0.0100		U	0.0130		-	0.0100		U	0.0100		U			
IRON	MG/L	2.1000		-	0.0610		-	1.0740		-	0.1540		-			
LEAD	MG/L	0.0040		R	0.0020		UJ	0.0027		-	0.0030		-			
MAGNESIUM	MG/L	44.4000		-	44.0000		-	44.2000		-	46.0000		-			
MANGANESE	MG/L	0.0300		-	0.0900		-									
MERCURY	MG/L	0.0002		U	0.0002		U									
MOLYBDENUM	MG/L	0.0200		U	0.0200		U									
NICKEL	MG/L	0.0200		U	0.0260		-	0.0224		-	0.0200		U			

SAMPLE NUMBER:		003657			003847			066420			066497			066650		
LAB:		IT			IT			IT			IT					
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L	1.1800		-	1.3700		-									
SELENIUM	MG/L	0.0020		R	0.0020		U									
SILVER	MG/L	0.0100		U	0.0005		U	0.0105		-	0.0110		-			
SODIUM	MG/L	12.4000		-	16.6000		-									
VANADIUM	MG/L							0.0195		-	0.0180		-			
ZINC	MG/L							0.0317		-	0.0420		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	1.5000	.3	-				0.6650	.224	R
URANIUM, TOTAL	UG/L	1.0000		U	1.0000	1	-	4.0000	1	-				1.7900	.194	R
URANIUM-234	PCI/L	1.0000		U	1.0000		U	1.9000	.4	-				1.0900	.289	R
THORIUM-230	PCI/L	1.0000		U	1.0000		U	2.0000	.8	-				34.8000	5.99	R
RADIUM-226	PCI/L	1.0000		U	1.0000		U									
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U				0.0416	.1	R
THORIUM-232	PCI/L	1.0000		U	1.0000		U									
THORIUM, TOTAL	UG/L	2.0000		U	3.0000		U									
RADIUM-228	PCI/L	5.2000	1.6	J	3.4000		UJ									
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.6000	.8	-				1.3900	.636	R
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U									
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U									
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U									
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U									
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U				1.7500	11.7	R
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R									
CESIUM-137	PCI/L	20.0000		R	20.0000		R									
VOLATILES																
1,1-DICHLOROETHANE	UG/L							5.0000		U	5.0000		U			
ACETONE	UG/L							10.0000		U	10.0000		U			
METHYLENE CHLORIDE	UG/L							10.0000		U	8.0000		U			
TETRACHLOROETHENE	UG/L							5.0000		U	5.0000		U			
TOLUENE	UG/L							5.0000		UJ	5.0000		U			
TRICHLOROETHENE	UG/L							5.0000		U	5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		066651			EMGW_SYSGEN_34			EMGW_SYSGEN_35			EMGW_SYSGEN_36			EMGW_SYSGEN_37		
TASK:		9.27			GWMON			GWMON			GWMON			GWMON		
LAB:		WMCO			NET			NET			NET			NET		
WELL OR BORING NUMBER:		1024			1024			1024			1024			1024		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		21-NOV-89			18-FEB-90			15-MAY-90			08-AUG-90			13-NOV-90		
NORTH COORDINATE:		482481.13			482481.13			482481.13			482481.13			482481.13		
EAST COORDINATE:		1378892.98			1378892.98			1378892.98			1378892.98			1378892.98		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													347.0000		NV
AMMONIA	MG/L													0.5700		NV
CHLORIDE	MG/L	2.0000		NV	2.0000		NV	2.0000		NV	3.0000		NV	2.0000		NV
FLUORIDE	MG/L	0.8500		NV	0.6800		NV	0.6200		NV	0.9200		NV	0.8200		NV
NITRATE	MG/L	0.4400		NV												
NITRATE, AS NITROGEN	MG/L				0.0200		NV	0.0700		NV	0.0500		NV			
NITRATE/NITRITE	MG/L													0.0200		UNV
PH	STD													7.0800		NV
PHENOLS	MG/L	0.0120		NV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L													0.0600		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM													712.0000		NV
SULFATE	MG/L	48.0000		NV	43.0000		NV	46.0000		NV	50.0000		NV	44.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L													508.0000		NV
TOTAL ORGANIC CARBON	MG/L	1.0000		NV	1.0000		UNV	2.0000		NV	50.0000		NV	3.0000		NV
TOTAL ORGANIC HALIDES	MG/L	0.0100		UNV												
TOTAL ORGANIC HALOGENS	MG/L				0.0100		UNV	0.0100		UNV	0.0260		NV	0.6140		NV
INORGANICS																
ALUMINUM	MG/L	0.2940		NV	0.2610		NV	0.0500		UNV	2.5400		NV	15.8000		NV
ANTIMONY	MG/L							0.0250		UNV	0.0250		UNV	0.0250		UNV
ARSENIC	MG/L	0.0025		UNV	0.0060		NV	0.0050		NV	0.0040		NV	0.0350		NV
BARIUM	MG/L	0.2000		UNV	0.2530		NV	0.2000		UNV	0.2000		UNV	0.3420		NV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L							0.0010		UNV	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L	85.2000		NV	95.8000		NV	95.2000		NV	99.6000		NV	78.4000		NV
CHROMIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0080		NV	0.0050		UNV	0.0050		UNV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV
COPPER	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0850		NV
CYANIDE	MG/L							0.0050		UNV				0.0050		UNV

000044

SAMPLE NUMBER:		066651		EMGW_SYSGEN_34		EMGW_SYSGEN_35		EMGW_SYSGEN_36		EMGW_SYSGEN_37	
LAB:						NET				NET	
SUFFIX/FILTERFLAG:		-		-		NONE-UNF		-		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
IRON	MG/L	0.6270	NV	2.1200	NV	1.4800	NV	7.9000	NV	78.3000	NV
LEAD	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0460	NV
MAGNESIUM	MG/L	40.7000	NV	43.4000	NV	28.0000	NV	53.6000	NV	41.0000	NV
MANGANESE	MG/L	0.1460	NV	0.1150	NV	0.1500	NV	0.1740	NV	0.0630	NV
MERCURY	MG/L					0.0002	UNV	0.0002	UNV	0.0002	UNV
MOLYBDENUM	MG/L					0.0250	UNV	0.0250	UNV	0.0390	NV
NICKEL	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0830	NV
POTASSIUM	MG/L					1.3500	NV	2.2600	NV	1.4800	NV
SELENIUM	MG/L					0.0025	UNV	0.0025	UNV	0.0025	UNV
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV
SODIUM	MG/L	31.8000	NV	26.3000	NV	11.8000	NV	16.1000	NV	8.2000	NV
THALLIUM	MG/L					0.0100	UNV	0.0100	UNV	0.0100	UNV
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.1780	NV
ZINC	MG/L	0.0200	UNV	0.0200	UNV	0.0200	UNV	0.0200	UNV	0.1470	NV
MISC											
3-METHYLPHENOL	UG/L					4.0000	UNV				
DIPHENYLAMINE	UG/L					15.0000	UNV				
TRANS-1,2-DICHLOROETHENE	UG/L									1.0000	UNV
PESTICIDES											
4,4'-DDD	UG/L					0.2000	UNV				
4,4'-DDE	UG/L					0.2000	UNV				
4,4'-DDT	UG/L					0.2000	UNV				
ALDRIN	UG/L					0.2000	UNV				
ALPHA-BHC	UG/L					0.2000	UNV				
AROCLOR-1016	UG/L					0.2000	UNV				
AROCLOR-1221	UG/L					0.2000	UNV				
AROCLOR-1232	UG/L					0.2000	UNV				
AROCLOR-1242	UG/L					0.2000	UNV				
AROCLOR-1248	UG/L					0.2000	UNV				
AROCLOR-1254	UG/L					0.2000	UNV				
AROCLOR-1260	UG/L					0.2000	UNV				
BETA-BHC	UG/L					0.2000	UNV				
CHLORDANE	UG/L					0.2000	UNV				
DELTA-BHC	UG/L					0.2000	UNV				
DIELDRIN	UG/L					0.2000	UNV				
ENDOSULFAN II	UG/L					0.2000	UNV				
ENDOSULFAN SULFATE	UG/L					0.2000	UNV				
ENDOSULFAN-I	UG/L					0.2000	UNV				
ENDRIN	UG/L					0.0800	UNV				
ENDRIN ALDEHYDE	UG/L					0.2000	UNV				
GAMMA-BHC (LINDANE)	UG/L					0.2000	UNV				

000745

SAMPLE NUMBER:		066651			EMGW_SYSGEN_34			EMGW_SYSGEN_35			EMGW_SYSGEN_36			EMGW_SYSGEN_37		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
HEPTACHLOR	UG/L							0.2000		UNV						
HEPTACHLOR EPOXIDE	UG/L							0.2000		UNV						
TOXAPHENE	UG/L							0.5000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L				1.0000		UNV	0.2000		UNV	0.9790		NV			
URANIUM, TOTAL	UG/L				2.2000		NV	1.0000		UNV	1.0900		NV			
URANIUM-234	PCI/L				1.0000		UNV	0.3960		NV	1.0400		NV			
THORIUM-230	PCI/L							0.6040		NV	0.3660		NV			
RADIUM-226	PCI/L							1.0000		UNV	1.0000		UNV			
URANIUM-235/236	PCI/L							0.2000		UNV	0.3510		NV			
THORIUM-232	PCI/L							0.3400		UNV	0.3100		UNV			
THORIUM, TOTAL	UG/L							3.0000		UNV	2.8000		UNV			
RADIUM-228	PCI/L							3.0000		UNV	3.0000		UNV			
THORIUM-228	PCI/L							0.3400		UNV	0.3100		UNV			
NEPTUNIUM-237	PCI/L							0.5000		UNV						
PLUTONIUM-239/240	PCI/L							0.5000		UNV						
PLUTONIUM-238	PCI/L							0.5000		UNV						
STRONTIUM-90	PCI/L							1.3900		NV						
TECHNETIUM-99	PCI/L				15.0000		UNV	26.0000		UNV						
RUTHENIUM-106	PCI/L							150.0000		UNV						
CESIUM-137	PCI/L							12.0000		UNV						
GROSS ALPHA	PCI/L							11.0000		UNV						
GROSS BETA	PCI/L							28.0000		UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							4.0000		UNV						
1,3-DICHLOROBENZENE	UG/L							4.0000		UNV						
1,4-DICHLOROBENZENE	UG/L							4.0000		UNV						
2,4,5-TRICHLOROPHENOL	UG/L							4.0000		UNV						
2,4,6-TRICHLOROPHENOL	UG/L							4.0000		UNV						
2,4-DICHLOROPHENOL	UG/L							4.0000		UNV						
2,4-DIMETHYLPHENOL	UG/L							4.0000		UNV						
2,4-DINITROPHENOL	UG/L							4.0000		UNV						
2,4-DINITROTOLUENE	UG/L							15.0000		UNV						
2,6-DINITROTOLUENE	UG/L							15.0000		UNV						
2-CHLOROETHYLVINYL ETHER	UG/L													10.0000		UNV
2-CHLORONAPHTHALENE	UG/L							4.0000		UNV						
2-CHLOROPHENOL	UG/L							4.0000		UNV						
2-METHYLPHENOL	UG/L							4.0000		UNV						
2-NITROANILINE	UG/L							15.0000		UNV						
2-NITROPHENOL	UG/L							4.0000		UNV						
3,3'-DICHLOROBENZIDINE	UG/L							15.0000		UNV						

000746

52704

SAMPLE NUMBER:	066651	EMGW_SYSGEN_34	EMGW_SYSGEN_35	EMGW_SYSGEN_36	EMGW_SYSGEN_37
LAB:			NET		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L							15.0000		UNV						
4,6-DINITRO-2-METHYLPHENOL	UG/L							4.0000		UNV						
4-BROMOPHENYL PHENYL ETHER	UG/L							15.0000		UNV						
4-CHLORO-3-METHYLPHENOL	UG/L							4.0000		UNV						
4-CHLOROPHENYLPHENYL ETHER	UG/L							15.0000		UNV						
4-NITROANILINE	UG/L							15.0000		UNV						
4-NITROPHENOL	UG/L							4.0000		UNV						
ACENAPHTHYLENE	UG/L							4.0000		UNV						
ANTHRACENE	UG/L							4.0000		UNV						
BENZO(A)ANTHRACENE	UG/L							4.0000		UNV						
BENZO(A)PYRENE	UG/L							4.0000		UNV						
BENZO(B)FLUORANTHENE	UG/L							4.0000		UNV						
BENZO(G,H,I)PERYLENE	UG/L							4.0000		UNV						
BENZO(K)FLUORANTHENE	UG/L							4.0000		UNV						
BENZOIC ACID	UG/L							4.0000		UNV						
BENZYL ALCOHOL	UG/L							40.0000		UNV						
BIS(2-CHLOROETHOXY)METHANE	UG/L							15.0000		UNV						
BIS(2-CHLOROETHYL)ETHER	UG/L							15.0000		UNV						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							15.0000		UNV						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							4.0000		UNV						
BUTYL BENZYL PHTHALATE	UG/L							4.0000		UNV						
CHRYSENE	UG/L							4.0000		UNV						
DI-N-BUTYL PHTHALATE	UG/L							4.0000		UNV						
DIBENZO(A,H)ANTHRACENE	UG/L							4.0000		UNV						
DIBENZOFURAN	UG/L							4.0000		UNV						
DIETHYL PHTHALATE	UG/L							4.0000		UNV						
DIMETHYL PHTHALATE	UG/L							4.0000		UNV						
FLUORANTHENE	UG/L							4.0000		UNV						
FLUORENE	UG/L							4.0000		UNV						
HEXACHLOROBENZENE	UG/L							4.0000		UNV						
HEXACHLOROBUTADIENE	UG/L							4.0000		UNV						
HEXACHLOROCYCLOPENTADIENE	UG/L							4.0000		UNV						
HEXACHLOROETHANE	UG/L							4.0000		UNV						
INDENO(1,2,3-CD)PYRENE	UG/L							4.0000		UNV						
ISOPHORONE	UG/L							4.0000		UNV						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							4.0000		UNV						
N-NITROSODIPHENYLAMINE	UG/L							4.0000		UNV						
NAPHTHALENE	UG/L							4.0000		UNV						
NITROBENZENE	UG/L							4.0000		UNV						
P-CHLOROANILINE	UG/L							4.0000		UNV						
PENTACHLOROPHENOL	UG/L							4.0000		UNV						
PHENANTHRENE	UG/L							4.0000		UNV						
PHENOL	MG/L							4.0000		UNV						
PYRENE	UG/L							4.0000		UNV						
PYRIDINE	UG/L							4.0000		UNV						

000732

SAMPLE NUMBER:	066651			EMGW_SYSGEN_34			EMGW_SYSGEN_35			EMGW_SYSGEN_36			EMGW_SYSGEN_37		
LAB:							NET								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE UG/L	2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE UG/L	2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL) UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE UG/L	2.5000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE UG/L													1.0000		UNV
CHLOROFORM UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE UG/L	2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE UG/L	2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE UG/L	2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE UG/L	2.5000		UNV	2.7000		NV	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV

000748

B704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_38				EMGW_SYSGEN_38D				EMGW_SYSGEN_40				EMGW_SYSGEN_41				EMGW_SYSGEN_42			
TASK:		GWMON				GWMON				GWMON				GWMON				GWMON			
LAB:		NET				NET				NET				NET				NET			
WELL OR BORING NUMBER:		1024				1024				1024				1024				1024			
DEPTH:		-				-				-				-				-			
DATE COLLECTED:		27-FEB-91				27-FEB-91				15-JUL-91				01-OCT-91				02-JAN-92			
NORTH COORDINATE:		482481.13				482481.13				482481.13				482481.13				482481.13			
EAST COORDINATE:		1378892.98				1378892.98				1378892.98				1378892.98				1378892.98			
QA TYPE:		NORMAL				DUPLICATE				NORMAL				NORMAL				NORMAL			
QC OF:						EMGW_SYSGEN_38															
SUFFIX/FILTERFLAG:		NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																			
ALKALINITY AS CACO3	MG/L	389.0000		NV	384.0000		NV	392.0000		NV	383.0000		NV	377.0000		NV
AMMONIA	MG/L	0.4800		NV	0.5400		NV	0.3400		NV	0.4100		NV	0.4500		NV
CHLORIDE	MG/L	2.0000		NV	2.0000		NV	2.0000		NV	1.0000		UNV	2.0000		NV
FLUORIDE	MG/L	0.8700		NV	0.8300		NV	0.9300		NV	0.9500		NV	1.0400		NV
NITRATE, AS NITROGEN	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0300		NV	0.0200		UNV
PH	STD	7.1800		NV	7.1400		NV	7.3400		NV	7.2000		NV	7.1600		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L	0.1800		NV	0.2100		NV	0.1000		UNV	0.1000		UNV	0.1100		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM	733.0000		NV	740.0000		NV	743.0000		NV	731.0000		NV	748.0000		NV
SULFATE	MG/L	61.0000		NV	58.0000		NV	67.0000		NV	54.0000		NV	43.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L	418.0000		NV	424.0000		NV	372.0000		NV	430.0000		NV	416.0000		NV
TOTAL ORGANIC CARBON	MG/L	4.0000		NV	5.0000		NV	8.0000		NV	7.0000		NV	19.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
INORGANICS																			
ALUMINUM	MG/L	0.8000		NV	0.5000		UNV	0.7200		NV	0.2000		UNV	0.2000		UNV
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV
ARSENIC	MG/L	0.0050		NV	0.0060		NV	0.0050		UNV	0.0050		NV	0.0050		UNV
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.2300		NV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0500		UNV	0.0050		UNV	0.0050		UNV
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L	74.4000		NV	75.7000		NV	84.0000		NV	84.0000		NV	96.6000		NV
CHROMIUM	MG/L	0.0070		NV	0.0050		UNV	0.0077		NV	0.0020		UNV	0.0025		NV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
COPPER	MG/L	0.0250		UNV	0.0250		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
IRON	MG/L	3.5400		NV	3.2100		NV	2.3200		NV	1.6000		NV	3.1000		NV
LEAD	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0030		UNV	0.0030		UNV
MAGNESIUM	MG/L	44.0000		NV	33.0000		NV	40.0000		NV	43.0000		NV	41.2000		NV

SAMPLE NUMBER:		EMGW_SYSGEN_38		EMGW_SYSGEN_38D		EMGW_SYSGEN_40		EMGW_SYSGEN_41		EMGW_SYSGEN_42	
LAB:		NET		NET		NET		NET		NET	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-UNF		NONE-FIL		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MANGANESE	MG/L	0.1190	NV	0.1170	NV	0.0790	NV	0.0780	NV	0.0620	NV
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV
MOLYBDENUM	MG/L	0.0250	UNV	0.0250	UNV	0.0140	NV	0.0100	UNV	0.0100	UNV
NICKEL	MG/L	0.0050	UNV	0.0050	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV
POTASSIUM	MG/L	1.4300	NV	1.2400	NV	1.7000	NV	1.3000	NV	1.3000	NV
SELENIUM	MG/L	0.0025	UNV	0.0025	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV
SILVER	MG/L	0.0020	NV	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV
SODIUM	MG/L	11.6000	NV	12.2000	NV	18.0000	NV	16.0000	NV	13.0000	NV
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV
ZINC	MG/L	0.0200	UNV	0.0200	UNV	0.0320	NV	0.0390	NV	0.0200	UNV
MISC											
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
RADIONUCLIDES											
URANIUM-238	PCI/L	0.2000	UNV	0.2690	NV						
URANIUM, TOTAL	UG/L	0.5290	NV	0.4810	NV	0.8000	NV	0.8000	NV	0.7000	NV
URANIUM-234	PCI/L	0.2820	NV	0.2000	UNV						
THORIUM-230	PCI/L	0.2020	NV	0.3030	NV						
RADIUM-226	PCI/L	1.0000	UNV	1.0000	UNV						
URANIUM-235/236	PCI/L	0.2000	UNV	0.2000	UNV						
THORIUM-232	PCI/L	0.2000	UNV	0.2000	UNV						
THORIUM, TOTAL	UG/L	1.8000	UNV	1.7000	UNV						
RADIUM-228	PCI/L	3.0000	UNV	3.0000	UNV						
THORIUM-228	PCI/L	0.2000	UNV	0.8510	NV						
NEPTUNIUM-237	PCI/L	0.5000	UNV	0.5000	UNV						
TECHNETIUM-99	PCI/L	19.0000	UNV	19.0000	UNV						
RUTHENIUM-106	PCI/L	150.0000	UNV	150.0000	UNV						
CESIUM-137	PCI/L	6.2000	UNV	6.5000	UNV						
GROSS ALPHA	PCI/L	8.5000	UNV	8.6500	NV						
GROSS BETA	PCI/L	5.1000	UNV	5.2000	UNV						
SEMIVOLATILES											
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000	UNV	10.0000	UNV	10.0000	UNV	10.0000	UNV	10.0000	UNV
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
1,1-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV

SAMPLE NUMBER:		EMGW_SYSGEN_38			EMGW_SYSGEN_38D			EMGW_SYSGEN_40			EMGW_SYSGEN_41			EMGW_SYSGEN_42		
LAB:		NET			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930113-6	GW930412-6	003231	003493	003546
TASK:	RCRA	50.03.23	3.2.4	3.2.4	3.2.4
LAB:	NET	NET	IT	IT	IT
WELL OR BORING NUMBER:	1024	1024	1025	1025	1025
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-JAN-93	12-APR-93	23-MAY-88	11-AUG-88	05-FEB-89
NORTH COORDINATE:	482481.13	482481.13	482021.82	482021.82	482021.82
EAST COORDINATE:	1378892.98	1378892.98	1378309.51	1378309.51	1378309.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	366.0000		NV	366.0000		-									
ALLYL CHLORIDE	UG/L	5.0000		UNV												
AMMONIA	MG/L	0.4100		NV	0.2700		R									
BICARBONATE ALKALINITY	MG/L	506.0000		NV	473.0000		-									
CARBONATE ALKALINITY	MG/L	3.0000		UNV	3.0000		U									
CHLORIDE	MG/L	4.0000		NV	13.0000		-									
FLUORIDE	MG/L	1.1700		NV	0.9600		-									
NITRATE	MG/L	0.0200		UNV				19.5000		J						
NITRATE/NITRITE	MG/L				0.0200		U									
NITRITE, AS NITROGEN	MG/L	0.0200		UNV												
PH	STD	7.2500		NV	7.2000		-									
PHENOLS	MG/L	0.0100		UNV	0.0100		U	0.1400		J						
PHOSPHORUS	MG/L	0.1000		UNV	0.1000		R									
SPECIFIC CONDUCTIVITY	UMHOS/CM	792.0000		NV	712.0000		-									
SULFATE	MG/L	64.0000		NV	89.0000		-									
TOTAL DISSOLVED SOLIDS	MG/L	460.0000		NV	433.0000		-									
TOTAL KJELDAHL NITROGEN	MG/L				0.4400		-									
TOTAL ORGANIC CARBON	MG/L	9.0000		NV	9.0000		J									
TOTAL ORGANIC HALIDES	MG/L	0.0100		UNV												
TOTAL ORGANIC HALOGENS	MG/L				0.0100		U									
TOTAL ORGANIC NITROGEN	MG/L				0.1700		-									
TOTAL SOLIDS	MG/L	468.0000		NV	452.0000		-									
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	0.0291		U	0.1750		J						
ANTIMONY	MG/L	0.0200		UNV	0.0450		U	0.0467		UJ						
ARSENIC	MG/L	0.0061		NV	0.0040		-	0.0026		J						
BARIUM	MG/L	0.2000		UNV	0.0854		-	0.0573		J						
BERYLLIUM	MG/L	0.0050		UNV	0.0010		U	0.0024		UJ						

000752

5704

SAMPLE NUMBER:	GW930113-6	GW930412-6	003231	003493	003546
LAB:	NET	NET	IT		
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-FIL	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L	0.0010		UNV	0.0030		U	0.0007		UJ						
CALCIUM	MG/L	93.0000		NV	82.5000		-	386.0000		J						
CHROMIUM	MG/L	0.0020		UNV	0.0050		U	0.0017		UJ						
COBALT	MG/L	0.0050		UNV	0.0080		U	0.0052		UJ						
COPPER	MG/L	0.0200		UNV	0.0045		U	0.0067		UJ						
CYANIDE	MG/L	0.0050		UNV	0.0100		UJ									
IRON	MG/L	1.7700		NV	1.7700		-	0.3040		UJ						
LEAD	MG/L	0.0030		UNV	0.0032		UJ	0.0105		UJ						
MAGNESIUM	MG/L	45.8000		NV	40.5000		-	150.0000		J						
MANGANESE	MG/L	0.0600		NV	0.0372		-	0.4550		J						
MERCURY	MG/L	0.0002		UNV	0.0002		U	0.0003		R						
MOLYBDENUM	MG/L	0.0109		NV				0.0333		UJ						
NICKEL	MG/L	0.0100		UNV	0.0200		U	0.0138		J						
POTASSIUM	MG/L	1.3000		NV	0.9630		-	4.2500		J						
SELENIUM	MG/L	0.0050		UNV	0.0010		U	0.0018		UJ						
SILVER	MG/L	0.0010		UNV	0.0070		U	0.0043		UJ						
SODIUM	MG/L	11.2000		NV	10.8000		-	110.0000		J						
THALLIUM	MG/L	0.0100		UNV	0.0020		UJ	0.0041		UJ						
VANADIUM	MG/L	0.0500		UNV	0.0030		U	0.0034		UJ						
ZINC	MG/L	0.0200		UNV	0.0102		U	0.0155		J						
MISC																
1,2,3-TRICHLOROPROPANE	UG/L	5.0000		UNV												
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	2.0000		UNV												
1,2-DIBROMOETHANE	UG/L	2.0000		UNV												
2-CHLORO-1,3-BUTADIENE	UG/L	5.0000		UNV												
ACROLEIN	UG/L	50.0000		UNV												
ACROLEIN	UG/L	50.0000		UNV												
ACRYLONITRILE	UG/L	50.0000		UNV												
DICHLORODIFLUOROMETHANE	UG/L	10.0000		UNV												
ETHYL CYANIDE	UG/L	20.0000		UNV												
ETHYL METHACRYLATE	UG/L	5.0000		UNV												
IODOMETHANE	UG/L	5.0000		UNV												
METHACRYLONITRILE	UG/L	5.0000		UNV												
METHYL METHACRYLATE	UG/L	5.0000		UNV												
PENTACHLOROETHANE	UG/L	5.0000		UNV												
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	20.0000		UNV												
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L													2.5000		U
DEMETON	UG/L													0.2500		U
DIAZINON	UG/L													0.2500		U

000753

SAMPLE NUMBER:		GW930113-6			GW930412-6			003231			003493			003546		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DISULFOTON	UG/L													0.2500		U
ETHION	UG/L													0.2500		U
MALATHION	UG/L													0.2500		U
METHYL PARATHION	UG/L													0.2500		U
PARATHION	UG/L													0.2500		U
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U						
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		U						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		U						
ALPHA-CHLORDANE	UG/L							0.5000		U						
AROCLOR-1016	UG/L							0.5000		U						
AROCLOR-1221	UG/L							0.5000		U						
AROCLOR-1232	UG/L							0.5000		U						
AROCLOR-1242	UG/L							0.5000		U						
AROCLOR-1248	UG/L							0.5000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		U						
DIELDRIN	UG/L							0.0500		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.0500		U						
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		U						
GAMMA-CHLORDANE	UG/L							0.5000		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							1.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L				0.4000	.1	J	2.4000	.5	J	2.0000	.4	-			
URANIUM, TOTAL	UG/L	0.5000		UNV	0.5000	.1	-	8.0000	1	R	9.0000	2	-			
URANIUM-234	PCI/L				0.5000	.2	J	2.5000	.5	J	1.7000	.3	-			
THORIUM-230	PCI/L	0.2000	.1	UNV	0.2000	.2	UJ	1.1000	.7	J	1.0000		UJ			
RADIUM-226	PCI/L	1.0000	.3	UNV	1.0000	.2	UJ	1.0000		U	1.0000		U			
URANIUM-235/236	PCI/L				0.2000	.3	UJ	1.0000		UJ	1.0000		U			
THORIUM-232	PCI/L	0.2000	.1	UNV	0.2000	.1	UJ	1.0000		UJ	1.0000		UJ			

SAMPLE NUMBER:		GW930113-6			GW930412-6			003231			003493			003546		
LAB:		CORE			CORE			IT			IT					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM, TOTAL	UG/L	1.0000		UNV							4.0000		UJ			
RADIUM-228	PCI/L	3.0000	1.1	UNV	3.0000	1	U	3.0000		UJ	5.0000		U			
THORIUM-228	PCI/L	0.2000	.1	UNV	0.2000	.1	UJ	1.4000	.8	J	1.0000		UJ			
NEPTUNIUM-237	PCI/L							1.0000		UJ	1.0000		UJ			
PLUTONIUM-239/240	PCI/L							1.0000		UJ	1.0000		U			
PLUTONIUM-238	PCI/L							1.0000		UJ	1.0000		U			
STRONTIUM-90	PCI/L							5.0000		U	5.0000		R			
TECHNETIUM-99	PCI/L				30.0000	8.7	J	30.0000		UJ	30.3000	8	-			
RUTHENIUM-106	PCI/L							150.0000		R	150.0000		R			
CESIUM-137	PCI/L							20.0000		R	20.0000		R			
GROSS ALPHA	PCI/L	1.3000	1.7	NV	1.5000	1.8	UNV									
GROSS BETA	PCI/L	2.7000	2.3	NV	0.0000	1.9	UNV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							50.0000		UJ						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							50.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		UJ						
3-NITROANILINE	UG/L							50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							50.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							50.0000		U						
4-NITROPHENOL	UG/L							50.0000		UJ						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						

SAMPLE NUMBER:		GW930113-6			GW930412-6			003231			003493			003546		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		UJ						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BENZOIC ACID	UG/L							50.0000		UJ						
BENZYL ALCOHOL	UG/L							10.0000		UJ						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		UJ						
BUTYL BENZYL PHTHALATE	UG/L							1.0000		J						
CHRYSENE	UG/L							10.0000		U						
CUMENE	UG/L	1.0000		UNV												
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		UJ						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UJ						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		UJ						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		UJ						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							50.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L							50.0000		UJ						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		U						
PYRENE	UG/L							10.0000		U						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	2.0000		J						
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						

000756

R7047

SAMPLE NUMBER:		GW930113-6		GW930412-6		003231		003493		003546	
LAB:		NET		NET		IT					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
1,1-DICHLOROETHENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
1,2-DICHLOROETHANE	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				
1,2-DICHLOROETHENE (TOTAL)	UG/L			10.0000	U	5.0000	U				
1,2-DICHLOROPROPANE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
2-BUTANONE	UG/L	10.0000	UNV	10.0000	UJ	10.0000	R				
2-HEXANONE	UG/L	10.0000	UNV	10.0000	UJ	10.0000	U				
4-METHYL-2-PENTANONE	UG/L	10.0000	UNV	10.0000	U	10.0000	U				
ACETONE	UG/L	10.0000	UNV	10.0000	U	11.0000	U				
BENZENE	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				
BROMODICHLOROMETHANE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
BROMOFORM	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
BROMOMETHANE	UG/L	5.0000	UNV	10.0000	U	10.0000	U				
CARBON DISULFIDE	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				
CARBON TETRACHLORIDE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
CHLOROBENZENE	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				
CHLOROETHANE	UG/L	10.0000	UNV	10.0000	U	10.0000	U				
CHLOROFORM	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
CHLOROMETHANE	UG/L	10.0000	UNV	10.0000	U	10.0000	U				
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
ETHYLBENZENE	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				
METHYLENE CHLORIDE	UG/L	10.0000	UNV	10.0000	U	16.0000	UJ				
STYRENE	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				
TETRACHLOROETHENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TOLUENE	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TRICHLOROETHENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TRICHLOROFLUOROMETHANE	UG/L	1.0000	UNV								
VINYL ACETATE	UG/L	10.0000	UNV			10.0000	UJ				
VINYL CHLORIDE	UG/L	5.0000	UNV	10.0000	U	10.0000	U				
XYLENES, TOTAL	UG/L	1.0000	UNV	10.0000	U	5.0000	UJ				

000759

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003739	003934	066435	066556	066595
TASK:	3.2.4	3.2.4	9.25	9.25	9.25
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1025	1025	1025	1025	1025
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-NOV-88	05-FEB-89	18-JUN-89	11-SEP-89	11-SEP-89
NORTH COORDINATE:	482021.82	482021.82	482021.82	482021.82	482021.82
EAST COORDINATE:	1378309.51	1378309.51	1378309.51	1378309.51	1378309.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L										1000.0000		U			
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.2900		J	0.1000		U									
CHLORIDE	MG/L	845.0000		-	940.0000		-	830.0000		-	1040.0000		-			
FLUORIDE	MG/L	0.5400		-	0.4400		J	0.4900		-	0.3600		-			
NITRATE	MG/L	45.4000		-	176.0000		J	164.0000		J	132.0000		-			
PHENOLS	MG/L	0.0100		U	0.0100		UJ									
PHOSPHORUS	MG/L	0.5190		-	1.9600		J									
SULFATE	MG/L	390.0000		J	432.0000		-	277.0000		-	677.0000		-			
SULFIDE	MG/L													4.2600		-
TOTAL KJELDAHL NITROGEN	MG/L	0.1000		UJ	0.2340		J									
TOTAL ORGANIC CARBON	MG/L							4.1300		UJ	2.2700		-			
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0599		J	0.0390		-			
TOTAL ORGANIC NITROGEN	MG/L				0.2340		J									
HERBICIDES																
2,4,5-T	UG/L													0.1000		UJ
2,4,5-TP (SILVEX)	UG/L													0.1000		UJ
2,4-D	UG/L													0.2000		UJ
INORGANICS																
ALUMINUM	MG/L							0.2870		-				0.5820		-
ANTIMONY	MG/L													0.0300		U
ARSENIC	MG/L	0.0020		-	0.0040		-							0.0020		UJ
BARIUM	MG/L	0.0910		-	0.0860		-	0.0665		-				0.0934		-
BERYLLIUM	MG/L							0.0025		-				0.0025		U

000758

02029

SAMPLE NUMBER:		003739			003934			066435			066556			066595		
LAB:								IT						IT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L	0.0020		U	0.0310		-							0.0245		J
CALCIUM	MG/L	520.0000		-	521.0000		-	499.0000		-				570.0000		-
CHROMIUM	MG/L	0.0200		U	0.0660		-	0.0618		-				0.0380		J
COBALT	MG/L							0.0159		-				0.0121		J
COPPER	MG/L	0.0100		U	0.0340		-	0.0100		U				0.0100		U
CYANIDE	MG/L													0.0050		UJ
IRON	MG/L	0.2180		-	0.8200		-	0.1110		-				0.2860		-
LEAD	MG/L	0.0020		UJ	0.0030		UJ	0.0020		U				0.0025		-
MAGNESIUM	MG/L	208.0000		-	218.0000		-	210.0000		-				212.0000		-
MANGANESE	MG/L	0.5200		-	0.3300		-							0.3980		-
MERCURY	MG/L	0.0002		UJ	0.0011		-							0.0002		U
MOLYBDENUM	MG/L	0.0200		U	0.0200		U									
NICKEL	MG/L	0.0240		-	0.1430		-	0.0970		-				0.0559		J
OSMIUM	MG/L													0.4690		R
POTASSIUM	MG/L	4.6700		-	4.1000		J							5.4600		-
SELENIUM	MG/L	0.0020		UJ	0.0020		UJ							0.0020		UJ
SILVER	MG/L	0.0005		UJ	0.0005		U	0.0100		U				0.0100		U
SODIUM	MG/L	183.0000		-	171.0000		-							210.0000		-
THALLIUM	MG/L													0.0010		U
TIN	MG/L													0.0300		UJ
VANADIUM	MG/L							0.0673		-				0.0612		-
ZINC	MG/L							0.0305		-				0.2920		J
MISC																
1,2,3-TRICHLOROPROPANE	UG/L										5.0000		U			
1,2,4,5-TETRACHLOROBENZENE	UG/L													10.0000		UR
1,2-DIBROMO-3-CHLOROPROPANE	UG/L										10.0000		U			
1,2-DIBROMOETHANE	UG/L										5.0000		U			
1,3,5-TRINITROBENZENE	UG/L													10.0000		UR
1,3-DINITROBENZENE	UG/L													10.0000		UR
1,4-NAPHTHOQUINONE	UG/L													10.0000		UR
1-NAPHTHYLAMINE	UG/L													120.0000		UR
2,3,4,6-TETRACHLOROPHENOL	UG/L													10.0000		UR
2,6-DICHLOROPHENOL	UG/L													10.0000		UR
2-ACETYLAMINOFLUORENE	UG/L													10.0000		UR
2-CHLORO-1,3-BUTADIENE	UG/L										5.0000		U			
2-NAPHTHYLAMINE	UG/L													170.0000		UR
2-PICOLINE	UG/L													70.0000		UR
3,3'-DIMETHYLBENZIDINE	UG/L													80.0000		UR
3-CHLOROPROPENE	UG/L										5.0000		U			
3-METHYLCHOLANTHRENE	UG/L													30.0000		UR
3-METHYLPHENOL	UG/L													10.0000		U
4-AMINOBIPHENYL	UG/L													50.0000		UR
4-NITROQUINOLINE-1-OXIDE	UG/L													10.0000		UR

000759

SAMPLE NUMBER:	003739			003934			066435			066556			066595		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
5-NITRO-O-TOLUIDINE UG/L													20.0000		UR
7,12-DIMETHYLBENZ(A)ANTHRACENE UG/L													20.0000		UR
A,A-DIMETHYLPHENETHYLAMINE UG/L													10.0000		UR
ACETONITRILE UG/L										200.0000		U			
ACETOPHENONE UG/L													10.0000		UR
ACROLEIN UG/L										10.0000		U			
ACROLEIN UG/L										10.0000		U			
ACRYLONITRILE UG/L										10.0000		U			
ANILINE UG/L													10.0000		UR
ARAMITE UG/L													10.0000		UR
DIALLATE UG/L													10.0000		UR
DIBROMOMETHANE UG/L										10.0000		U			
DICHLORODIFLUOROMETHANE UG/L										200.0000		U			
DINOSEB UG/L													20.0000		UR
DIPHENYLAMINE UG/L													10.0000		UR
ETHYL CYANIDE UG/L										100.0000		U			
ETHYL METHACRYLATE UG/L										10.0000		U	20.0000		UR
ETHYL METHANESULFONATE UG/L													10.0000		UR
HEXACHLOROPHENE UG/L													500.0000		UR
HEXACHLOROPROPENE UG/L													20.0000		UR
IODOMETHANE UG/L										5.0000		U			
ISODRIN UG/L													0.0500		U
ISOSAFROLE UG/L													10.0000		UR
KEPONE UG/L													0.1000		U
METHACRYLONITRILE UG/L										10.0000		U			
METHAPYRILENE UG/L													40.0000		UR
METHYL METHACRYLATE UG/L										10.0000		U			
METHYL METHANESULFONATE UG/L													10.0000		UR
N-NITROSODI-N-BUTYLAMINE UG/L													20.0000		UR
N-NITROSODIETHYLAMINE UG/L													10.0000		UR
N-NITROSOMETHYLETHYLAMINE UG/L													10.0000		UR
N-NITROSOMORPHOLINE UG/L													10.0000		UR
N-NITROSOPIPERIDINE UG/L													10.0000		UR
N-NITROSOPYRROLIDINE UG/L													10.0000		UR
O-TOLUIDINE UG/L													10.0000		UR
P-DIMETHYLAMINOAZOBENZENE UG/L													30.0000		UR
P-PHENYLENEDIAMINE UG/L													50.0000		UR
PENTACHLOROBENZENE UG/L													20.0000		UR
PENTACHLOROETHANE UG/L													20.0000		UR
PENTACHLORONITROBENZENE UG/L													20.0000		UR
PHENACETIN UG/L													10.0000		UR
PRONAMIDE UG/L													30.0000		UR
SAFROLE UG/L													10.0000		UR
TRANS-1,2-DICHLOROETHENE UG/L										5.0000		U			
TRANS-1,4-DICHLORO-2-BUTENE UG/L										20.0000		U			

SAMPLE NUMBER:		003739			003934			066435			066556			066595		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L													1.0000		UJ
DISULFOTON	UG/L													1.0000		UJ
FAMPHUR	UG/L													1.0000		UJ
METHYL PARATHION	UG/L													0.0500		UJ
PARATHION	UG/L													0.0500		UJ
PHORATE	UG/L													1.0000		UJ
THIONAZIN	UG/L													1.0000		UJ
PESTICIDES																
4,4'-DDD	UG/L													0.1000		U
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.1000		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.1000		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
SULFOTEP	UG/L													1.0000		UJ
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	3.4000	.6	-	5.4000	1.3	-	3.1000	.5	-	1.6500	.54	J			
URANIUM, TOTAL	UG/L	9.0000	1	-	10.0000	2	-	11.0000	3	-	5.6000	.6	J			
URANIUM-234	PCI/L	2.9000	.6	-	4.9000	1.3	-	3.2000	.5	-	2.1500	.62	J			
THORIUM-230	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		R			

000961

SAMPLE NUMBER:		003739			003934			066435			066556			066595		
LAB:		IT			IT			IT			IT					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L	1.0000		U	1.0000		U									
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		UJ			
THORIUM-232	PCI/L	1.0000		U	1.0000		U									
THORIUM, TOTAL	UG/L	3.0000		U	7.0000	2	-									
RADIUM-228	PCI/L	3.0000		UJ	3.0000		UJ									
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		R			
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U									
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ									
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		UJ									
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U									
TECHNETIUM-99	PCI/L	30.0000		UJ	30.0000		UJ	30.0000		U	105.0000	22	J			
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R									
CESIUM-137	PCI/L	20.0000		R	20.0000		R									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		U
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U

234000

5704

SAMPLE NUMBER:	003739	003934	066435	066556	066595
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													3.0000		J
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		UR
N-NITROSODIMETHYLAMINE	UG/L													10.0000		UR
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L													10.0000		UR
P-CHLOROANILINE	UG/L													10.0000		UJ
PENTACHLOROPHENOL	UG/L													50.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
PYRIDINE	UG/L										50000.0000		U			
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L										5.0000		U			
1,1,1-TRICHLOROETHANE	UG/L										5.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U			

SAMPLE NUMBER:	003739	003934	066435	066556	066595
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHANE	UG/L							5.0000		U	5.0000		U			
1,1-DICHLOROETHENE	UG/L										5.0000		U			
1,2-DICHLOROETHANE	UG/L										5.0000		U			
1,2-DICHLOROPROPANE	UG/L										5.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L							10.0000		U	10.0000		U			
BENZENE	UG/L										5.0000		U			
BROMODICHLOROMETHANE	UG/L										5.0000		U			
BROMOFORM	UG/L										5.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										5.0000		U			
CARBON TETRACHLORIDE	UG/L										5.0000		U			
CHLOROBENZENE	UG/L										5.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										5.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
DIBROMOCHLOROMETHANE	UG/L										5.0000		U			
ETHYLBENZENE	UG/L										5.0000		U			
ISOBUTYL ALCOHOL	UG/L										3000.0000		U			
METHYLENE CHLORIDE	UG/L							10.0000		U	10.0000		U			
STYRENE	UG/L										5.0000		U			
TETRACHLOROETHENE	UG/L							5.0000		U	5.0000		U			
TOLUENE	UG/L							5.0000		U	5.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
TRICHLOROETHENE	UG/L							5.0000		U	5.0000		U			
TRICHLOROFLUOROMETHANE	UG/L										5.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066656	066657	EMGW_SYSGEN_45	EMGW_SYSGEN_46	EMGW_SYSGEN_47
TASK:	9.27	9.27	GWMON	GWMON	GWMON
LAB:	IT	WMCO	NET	NET	NET
WELL OR BORING NUMBER:	1025	1025	1025	1025	1025
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-NOV-89	21-NOV-89	16-FEB-90	03-MAY-90	06-AUG-90
NORTH COORDINATE:	482021.82	482021.82	482021.82	482021.82	482021.82
EAST COORDINATE:	1378309.51	1378309.51	1378309.51	1378309.51	1378309.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L				899.0000		NV	740.0000		NV	889.0000		NV	859.0000		NV
FLUORIDE	MG/L				0.5500		NV	0.7000		NV	0.9700		NV	0.3600		NV
NITRATE	MG/L				152.0000		NV									
NITRATE, AS NITROGEN	MG/L							114.0000		NV	146.0000		NV	130.0000		NV
PHENOLS	MG/L				0.0110		NV	0.0050		UNV	0.0050		UNV	0.0050		UNV
SULFATE	MG/L				338.0000		NV	318.0000		NV	197.0000		NV	368.0000		NV
TOTAL ORGANIC CARBON	MG/L				3.0000		NV	2.0000		NV	3.0000		NV	6.0000		NV
TOTAL ORGANIC HALIDES	MG/L				0.0100		UNV									
TOTAL ORGANIC HALOGENS	MG/L							0.0280		NV	0.1190		NV	0.0440		NV
INORGANICS																
ALUMINUM	MG/L				0.1220		NV	1.1300		NV	0.0500		UNV	47.0000		NV
ANTIMONY	MG/L										0.0250		UNV	0.0250		UNV
ARSENIC	MG/L				0.0070		NV	0.0025		UNV	0.0220		NV	0.0025		UNV
BARIUM	MG/L				0.6560		NV	0.2000		UNV	0.8350		NV	0.2400		NV
BERYLLIUM	MG/L				0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L										0.0010		UNV	0.0010		UNV
CALCIUM	MG/L				583.0000		NV	429.0000		NV	656.0000		NV	279.0000		NV
CHROMIUM	MG/L				0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
COBALT	MG/L				0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV
COPPER	MG/L				0.0420		NV	0.0300		NV	0.0800		NV	0.0850		NV
CYANIDE	MG/L										0.0050		UNV			
IRON	MG/L				18.0000		NV	0.0500		UNV	0.0500		UNV	0.0500		UNV
LEAD	MG/L				0.0100		NV	0.0050		UNV	0.0050		UNV	0.0050		UNV
MAGNESIUM	MG/L				207.0000		NV	182.0000		NV	177.0000		NV	178.0000		NV
MANGANESE	MG/L				0.3770		NV	0.3800		NV	0.0870		NV	0.2200		NV
MERCURY	MG/L										0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L										0.0450		NV	0.0250		UNV
NICKEL	MG/L				0.0650		NV	0.4890		NV	0.1930		NV	0.1790		NV

000785

SAMPLE NUMBER:	066656			066657			EMGW_SYSGEN_45			EMGW_SYSGEN_46			EMGW_SYSGEN_47		
LAB:				WMCO			NET			NET			NET		
SUFFIX/FILTERFLAG:	-			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L										7.4000		NV	6.8600		NV
SELENIUM	MG/L										0.0025		UNV	0.0025		UNV
SILVER	MG/L				0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L				215.0000		NV	269.0000		NV	187.0000		NV	208.0000		NV
THALLIUM	MG/L										0.0100		UNV	0.0100		UNV
VANADIUM	MG/L				0.0500		UNV	0.0500		UNV	0.1640		NV	0.1830		NV
ZINC	MG/L				0.0980		NV	0.0200		UNV	0.1240		NV	0.0200		UNV
MISC																
3-METHYLPHENOL	UG/L										4.0000		UNV			
DIPHENYLAMINE	UG/L										15.0000		UNV			
PESTICIDES																
4,4'-DDD	UG/L										0.2000		UNV			
4,4'-DDE	UG/L										0.2000		UNV			
4,4'-DDT	UG/L										0.2000		UNV			
ALDRIN	UG/L										0.2000		UNV			
ALPHA-BHC	UG/L										0.2000		UNV			
AROCLOR-1016	UG/L										0.2000		UNV			
AROCLOR-1221	UG/L										0.2000		UNV			
AROCLOR-1232	UG/L										0.2000		UNV			
AROCLOR-1242	UG/L										0.2000		UNV			
AROCLOR-1248	UG/L										0.2000		UNV			
AROCLOR-1254	UG/L										0.2000		UNV			
AROCLOR-1260	UG/L										0.2000		UNV			
BETA-BHC	UG/L										0.2000		UNV			
CHLORDANE	UG/L										0.2000		UNV			
DELTA-BHC	UG/L										0.2000		UNV			
DIELDRIN	UG/L										0.2000		UNV			
ENDOSULFAN II	UG/L										0.2000		UNV			
ENDOSULFAN SULFATE	UG/L										0.2000		UNV			
ENDOSULFAN-I	UG/L										0.2000		UNV			
ENDRIN	UG/L										0.0800		UNV			
ENDRIN ALDEHYDE	UG/L										0.2000		UNV			
GAMMA-BHC (LINDANE)	UG/L										0.2000		UNV			
HEPTACHLOR	UG/L										0.2000		UNV			
HEPTACHLOR EPOXIDE	UG/L										0.2000		UNV			
TOXAPHENE	UG/L										0.5000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	3.1100	.56	R				2.7000		NV	0.3600		UNV	11.5000		NV
URANIUM, TOTAL	UG/L	6.3000	.7	R				8.0000		NV	7.9900	.87	NV	34.5000		NV

000766

6704

SAMPLE NUMBER:		066656			066657			EMGW_SYSGEN_45			EMGW_SYSGEN_46			EMGW_SYSGEN_47		
LAB:		IT						IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L	3.7200	.64	R				3.1000		NV	0.3600		UNV	13.4000		NV
THORIUM-230	PCI/L	1.0000		R				1.0000		UNV	1.8700		NV	0.6500		UNV
RADIUM-226	PCI/L										1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L	1.0000		R							0.3600		UNV	0.8840		NV
THORIUM-232	PCI/L										0.6800		UNV	0.6500		UNV
THORIUM, TOTAL	UG/L										6.1000		UNV	5.8000		UNV
RADIUM-228	PCI/L										17.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L	1.0000		R				1.0000		UNV	0.8080		NV	1.3000		NV
NEPTUNIUM-237	PCI/L										0.5000		UNV			
PLUTONIUM-239/240	PCI/L										0.5000		UNV			
PLUTONIUM-238	PCI/L										0.5000		UNV			
STRONTIUM-90	PCI/L										1.3400		NV			
TECHNETIUM-99	PCI/L	30.0000		R				29.8000		NV	27.0000		UNV			
RUTHENIUM-106	PCI/L										150.0000		UNV			
CESIUM-137	PCI/L										12.0000		UNV			
GROSS ALPHA	PCI/L										0.0588	.0359	NV			
GROSS BETA	PCI/L										0.1000		UNV			
URANIUM-235	PCI/L							1.0000		UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										4.0000		UNV			
1,3-DICHLOROBENZENE	UG/L										4.0000		UNV			
1,4-DICHLOROBENZENE	UG/L										4.0000		UNV			
2,4,5-TRICHLOROPHENOL	UG/L										4.0000		UNV			
2,4,6-TRICHLOROPHENOL	UG/L										4.0000		UNV			
2,4-DICHLOROPHENOL	UG/L										4.0000		UNV			
2,4-DIMETHYLPHENOL	UG/L										4.0000		UNV			
2,4-DINITROPHENOL	UG/L										4.0000		UNV			
2,4-DINITROTOLUENE	UG/L										15.0000		UNV			
2,6-DINITROTOLUENE	UG/L										15.0000		UNV			
2-CHLORONAPHTHALENE	UG/L										4.0000		UNV			
2-CHLOROPHENOL	UG/L										4.0000		UNV			
2-METHYLPHENOL	UG/L										4.0000		UNV			
2-NITROANILINE	UG/L										15.0000		UNV			
2-NITROPHENOL	UG/L										4.0000		UNV			
3,3'-DICHLOROBENZIDINE	UG/L										15.0000		UNV			
3-NITROANILINE	UG/L										15.0000		UNV			
4,6-DINITRO-2-METHYLPHENOL	UG/L										4.0000		UNV			
4-BROMOPHENYL PHENYL ETHER	UG/L										15.0000		UNV			
4-CHLORO-3-METHYLPHENOL	UG/L										4.0000		UNV			
4-CHLOROPHENYLPHENYL ETHER	UG/L										15.0000		UNV			
4-NITROANILINE	UG/L										15.0000		UNV			
4-NITROPHENOL	UG/L										4.0000		UNV			
ACENAPHTHYLENE	UG/L										4.0000		UNV			

000757

SAMPLE NUMBER:	066656			066657			EMGW_SYSGEN_45			EMGW_SYSGEN_46			EMGW_SYSGEN_47		
LAB:										NET					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
ANTHRACENE UG/L										4.0000		UNV			
BENZO(A)ANTHRACENE UG/L										4.0000		UNV			
BENZO(A)PYRENE UG/L										4.0000		UNV			
BENZO(B)FLUORANTHENE UG/L										4.0000		UNV			
BENZO(G,H,I)PERYLENE UG/L										4.0000		UNV			
BENZO(K)FLUORANTHENE UG/L										4.0000		UNV			
BENZOIC ACID UG/L										4.0000		UNV			
BENZYL ALCOHOL UG/L										40.0000		UNV			
BIS(2-CHLOROETHOXY)METHANE UG/L										15.0000		UNV			
BIS(2-CHLOROETHYL)ETHER UG/L										15.0000		UNV			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										15.0000		UNV			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										4.0000		UNV			
BUTYL BENZYL PHTHALATE UG/L										4.0000		UNV			
CHRYSENE UG/L										4.0000		UNV			
DI-N-BUTYL PHTHALATE UG/L										4.0000		UNV			
DIBENZO(A,H)ANTHRACENE UG/L										4.0000		UNV			
DIBENZOFURAN UG/L										4.0000		UNV			
DIETHYL PHTHALATE UG/L										4.0000		UNV			
DIMETHYL PHTHALATE UG/L										4.0000		UNV			
FLUORANTHENE UG/L										4.0000		UNV			
FLUORENE UG/L										4.0000		UNV			
HEXACHLOROBENZENE UG/L										4.0000		UNV			
HEXACHLOROBUTADIENE UG/L										4.0000		UNV			
HEXACHLOROCYCLOPENTADIENE UG/L										4.0000		UNV			
HEXACHLOROETHANE UG/L										4.0000		UNV			
INDENO(1,2,3-CD)PYRENE UG/L										4.0000		UNV			
ISOPHORONE UG/L										4.0000		UNV			
N-NITROSO-DI-N-PROPYLAMINE UG/L										4.0000		UNV			
N-NITROSODIPHENYLAMINE UG/L										4.0000		UNV			
NAPHTHALENE UG/L										4.0000		UNV			
NITROBENZENE UG/L										4.0000		UNV			
P-CHLOROANILINE UG/L										4.0000		UNV			
PENTACHLOROPHENOL UG/L										4.0000		UNV			
PHENANTHRENE UG/L										4.0000		UNV			
PHENOL MG/L										4.0000		UNV			
PYRENE UG/L										4.0000		UNV			
PYRIDINE UG/L										4.0000		UNV			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE UG/L										1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE UG/L										1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE UG/L										1.0000		UNV	1.0000		UNV

000768

5704

SAMPLE NUMBER:	066656	066657	EMGW_SYSGEN_45	EMGW_SYSGEN_46	EMGW_SYSGEN_47
LAB:				NET	NET
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHANE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L										1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L										2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L										2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L										2.0000		UNV	2.0000		UNV
ACETONE	UG/L				2.5000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE	UG/L										1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L										1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L										1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L										1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L										1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L										1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L										2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L										1.0000		UNV	1.0000		UNV

000769

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_48			EMGW_SYSGEN_49			EMGW_SYSGEN_51			EMGW_SYSGEN_52			GW930106-17		
TASK:		GWMON			GWMON			GWMON			GWMON			RCRA		
LAB:		NET			NET			NET			NET			NET		
WELL OR BORING NUMBER:		1025			1025			1025			1025			1025		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		07-NOV-90			12-FEB-91			11-JUL-91			09-OCT-91			06-JAN-93		
NORTH COORDINATE:		482021.82			482021.82			482021.82			482021.82			482021.82		
EAST COORDINATE:		1378309.51			1378309.51			1378309.51			1378309.51			1378309.51		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	253.0000		NV	343.0000		NV	367.0000		NV	344.0000		NV	349.0000		NV
ALLYL CHLORIDE	UG/L													5.0000		UNV
AMMONIA	MG/L	0.2300		NV	11.4000		NV	0.0200		UNV	0.0200		UNV	0.0900		NV
BICARBONATE ALKALINITY	MG/L													458.0000		NV
CARBONATE ALKALINITY	MG/L													3.0000		UNV
CHLORIDE	MG/L	788.0000		NV	871.0000		NV	812.0000		NV	871.0000		NV	839.0000		NV
FLUORIDE	MG/L	0.4200		NV	0.4100		NV	0.3900		NV	0.4500		NV	0.3800		NV
NITRATE	MG/L													0.9900		NV
NITRATE, AS NITROGEN	MG/L				155.0000		NV	143.0000		NV	16.4000		NV			
NITRATE/NITRITE	MG/L	142.0000		NV												
NITRITE, AS NITROGEN	MG/L													0.0400		NV
PH	STD	6.7900		NV	6.9300		NV	6.8300		NV	6.6800		NV	6.8200		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0100		UNV
PHOSPHORUS	MG/L	0.8500		NV	1.1600		NV	0.1300		NV	0.4100		NV	0.1000		UNV
SPECIFIC CONDUCTIVITY	UMHOS/CM	4790.0000		NV	4570.0000		NV	4560.0000		NV	4760.0000		NV	4820.0000		NV
SULFATE	MG/L	368.0000		NV	455.0000		NV	592.0000		NV	423.0000		NV	644.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L	3700.0000		NV	3330.0000		NV	4430.0000		NV	3440.0000		NV	3530.0000		NV
TOTAL ORGANIC CARBON	MG/L	3.0000		NV	9.0000		NV	15.0000		NV	29.0000		NV	21.0000		NV
TOTAL ORGANIC HALIDES	MG/L													0.0200		NV
TOTAL ORGANIC HALOGENS	MG/L	0.2850		NV	0.0330		NV	0.0190		NV	0.0530		NV			
TOTAL SOLIDS	MG/L													3570.0000		NV
INORGANICS																
ALUMINUM	MG/L	0.5000		UNV	13.6000		NV	0.2000		UNV	0.2000		UNV	1.8000		NV
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV
ARSENIC	MG/L	0.0130		NV	0.0025		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
BARIUM	MG/L	0.4340		NV	0.5320		NV	0.3000		NV	0.2000		UNV	0.2000		UNV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0500		UNV	0.0050		UNV	0.0050		UNV
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV

600770

8704

SAMPLE NUMBER:		EMGW_SYSGEN_48		EMGW_SYSGEN_49		EMGW_SYSGEN_51		EMGW_SYSGEN_52		GW930106-17	
LAB:		NET		NET		NET		NET		NET	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		NONE-FIL		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
CALCIUM	MG/L	472.0000	NV	386.0000	NV	440.0000	NV	460.0000	NV	480.0000	NV
CHROMIUM	MG/L	0.0120	NV	0.0050	UNV	0.0030	NV	0.0058	NV	0.0025	NV
COBALT	MG/L	0.0250	UNV	0.0250	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV
COPPER	MG/L	0.0340	NV	0.0250	UNV	0.0250	NV	0.0280	NV	0.0200	UNV
CYANIDE	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV
IRON	MG/L	35.7000	NV	28.4000	NV	2.7900	NV	0.1100	NV	0.1000	UNV
LEAD	MG/L	0.0170	NV	0.0050	UNV	0.0050	UNV	0.0030	UNV	0.0030	UNV
MAGNESIUM	MG/L	237.0000	NV	147.0000	NV	180.0000	NV	180.0000	NV	184.0000	NV
MANGANESE	MG/L	1.3000	NV	0.0620	NV	0.2870	NV	0.2150	NV	0.2780	NV
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV
MOLYBDENUM	MG/L	0.0250	UNV	0.0250	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV
NICKEL	MG/L	0.0770	NV	0.0270	NV	0.0260	NV	0.0270	NV	0.0330	NV
POTASSIUM	MG/L	6.2200	NV	6.6700	NV	6.3000	NV	7.1000	NV	6.6000	NV
SELENIUM	MG/L	0.0025	UNV	0.0025	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV
SODIUM	MG/L	169.0000	NV	217.0000	NV	216.0000	NV	170.0000	NV	180.0000	NV
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV
VANADIUM	MG/L	0.1240	NV	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV
ZINC	MG/L	0.0850	NV	0.0370	NV	0.1090	NV	0.0850	NV	0.0200	UNV
MISC											
1,2,3-TRICHLOROPROPANE	UG/L									5.0000	UNV
1,2-DIBROMO-3-CHLOROPROPANE	UG/L									2.0000	UNV
1,2-DIBROMOETHANE	UG/L									2.0000	UNV
2-CHLORO-1,3-BUTADIENE	UG/L									5.0000	UNV
ACROLEIN	UG/L									50.0000	UNV
ACROLEIN	UG/L									50.0000	UNV
ACRYLONITRILE	UG/L									50.0000	UNV
DICHLORODIFLUOROMETHANE	UG/L									10.0000	UNV
ETHYL CYANIDE	UG/L									20.0000	UNV
ETHYL METHACRYLATE	UG/L									5.0000	UNV
IODOMETHANE	UG/L									5.0000	UNV
METHACRYLONITRILE	UG/L									5.0000	UNV
METHYL METHACRYLATE	UG/L									5.0000	UNV
PENTACHLOROETHANE	UG/L									5.0000	UNV
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
TRANS-1,4-DICHLORO-2-BUTENE	UG/L									20.0000	UNV
RADIONUCLIDES											
URANIUM-238	PCI/L	2.3600	NV	9.0200	NV						
URANIUM, TOTAL	UG/L	6.6200	NV	6.1800	NV	5.4000	NV	5.6000	NV	4.8000	NV
URANIUM-234	PCI/L	3.1900	NV	9.8200	NV						
THORIUM-230	PCI/L	0.6800	UNV	1.1800	NV					0.5000 .2	NV

000771

SAMPLE NUMBER:		EMGW_SYSGEN_48			EMGW_SYSGEN_49			EMGW_SYSGEN_51			EMGW_SYSGEN_52			GW930106-17		
LAB:		IT			IT			-			-			CORE		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF									NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV							1.3000	.4	NV
URANIUM-235/236	PCI/L	0.2330		NV	0.5600		UNV									
THORIUM-232	PCI/L	0.6800		UNV	0.6600		UNV							0.2000	.1	UNV
THORIUM, TOTAL	UG/L	6.1000		UNV	3.9800		NV							1.4000		NV
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV							3.0000	1	UNV
THORIUM-228	PCI/L	1.0200		NV	2.7900		NV							0.2000	.1	UNV
NEPTUNIUM-237	PCI/L	0.5000		UNV	0.5000		UNV									
PLUTONIUM-239/240	PCI/L	0.5000		UNV	0.5000		UNV									
PLUTONIUM-238	PCI/L	0.5000		UNV	0.5000		UNV									
TECHNETIUM-99	PCI/L				21.8000		NV							23.9000	5.9	NV
RUTHENIUM-106	PCI/L	150.0000		UNV	150.0000		UNV									
CESIUM-137	PCI/L	6.7000		UNV	6.7000		UNV									
GROSS ALPHA	PCI/L				66.0000		UNV							3.2000	11.2	UNV
GROSS BETA	PCI/L				52.3000		NV							66.7000	16.9	NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV	10.0000		UNV	10.0000		UNV
CUMENE	UG/L													1.0000		UNV
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV

000772

5204

SAMPLE NUMBER:		EMGW_SYSGEN_48		EMGW_SYSGEN_49		EMGW_SYSGEN_51		EMGW_SYSGEN_52		GW930106-17	
LAB:		NET		NET		NET		NET		NET	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
METHYLENE CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	UNV
STYRENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV
TRICHLOROFLUOROMETHANE	UG/L									1.0000	UNV
VINYL ACETATE	UG/L	2.0000	UNV	2.0000	UNV	2.0000	UNV	2.0000	UNV	10.0000	UNV
VINYL CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	5.0000	UNV
XYLENES, TOTAL	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV

000773

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		GW930707-3			003166			003452			003730			003927									
TASK:		50.03.23			3.2.4			3.2.4			3.2.4			3.2.4									
LAB:		TCT			IT			IT			IT			IT									
WELL OR BORING NUMBER:		1025			1027			1027			1027			1027									
DEPTH:		-			-			-			-			-									
DATE COLLECTED:		07-JUL-93			08-MAY-88			10-AUG-88			04-DEC-88			05-FEB-89									
NORTH COORDINATE:		482021.82			481980.79			481980.79			481980.79			481980.79									
EAST COORDINATE:		1378309.51			1379319.5			1379319.5			1379319.5			1379319.5									
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL									
QC OF:																							
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF									
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)							
GENERAL CHEMISTRY																							
ALKALINITY AS CACO3	MG/L	368.0000		-																			
AMMONIA	MG/L	0.0892		-	0.2100		J	0.4000		-	0.1000		U	0.1000		U							
CHLORIDE	MG/L	993.0000		-	8.8000		J	9.6000		-	7.9000		R	3.0000		-							
FLUORIDE	MG/L	0.2900		-	1.2000		J	1.7000		-	1.1000		-	0.9600		J							
NITRATE	MG/L				0.3000		-	0.1300		J	0.1000		U	0.1000		UJ							
NITRATE/NITRITE	MG/L	132.0000		-																			
PHENOLS	MG/L				0.0200		J	0.0500		U	0.0110		-	0.0100		UJ							
PHOSPHATE	MG/L	0.2500		R																			
PHOSPHORUS	MG/L				0.1000		-				0.1340		-	0.0900		J							
SULFATE	MG/L	585.0000		-	60.0000		J	140.0000		-	96.7000		-	153.0000		-							
TOTAL KJELDAHL NITROGEN	MG/L	0.3000		U				15.0000		U	0.1480		-	0.2020		J							
TOTAL ORGANIC HALIDES	MG/L										0.0500		U	0.0500		U							
TOTAL ORGANIC NITROGEN	MG/L	0.3000		U	0.1000		UJ				0.1480		-	0.2020		J							
INORGANICS																							
ALUMINUM	MG/L	1.0100		-																			
ANTIMONY	MG/L	0.0140		U																			
ARSENIC	MG/L	0.0100		U	0.2000		U	0.0100		U	0.0020		R	0.0020		U							
BARIUM	MG/L	0.0514		-	0.0510		-	0.2000		U	0.0370		-	0.0770		-							
BERYLLIUM	MG/L	0.0100		R																			
CADMIUM	MG/L	0.0113		J	0.0050		U	0.0050		U	0.0020		U	0.0090		-							
CALCIUM	MG/L	526.0000		-	105.0000		-	130.0000		-	67.5000		-	125.0000		-							
CHROMIUM	MG/L	0.0170		J	0.0200		U	0.0100		U	0.0200		U	0.0300		-							
COBALT	MG/L	0.0170		U																			
COPPER	MG/L	0.0090		U	0.0100		U	0.0300		U	0.0100		U	0.0140		-							
CYANIDE	MG/L	0.0050		U																			
IRON	MG/L	0.8120		-	0.3000		-	2.1000		-	0.1300		J	0.1060		-							
LEAD	MG/L	0.0014		J	0.0500		U	0.0050		U	0.0020		UJ	0.0020		UJ							
MAGNESIUM	MG/L	202.0000		-	38.5000		-	45.0000		-	24.4000		-	48.3000		-							

SAMPLE NUMBER:		GW930707-3			003166			003452			003730			003927		
LAB:		TCT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	0.2210		-	0.0810		-	0.0700		-	0.0770		-	0.1260		-
MERCURY	MG/L	0.0001		U	0.0002		U	0.0003		U	0.0002		U	0.0024		-
MOLYBDENUM	MG/L	0.0170		UJ	0.0200		U	0.0500		U	0.0200		UJ	0.0200		U
NICKEL	MG/L	0.0180		UJ	0.0220		U	0.0400		U	0.0200		U	0.0200		U
POTASSIUM	MG/L	5.6500		-	1.1600		-	5.0000		U	1.2300		-	1.2200		J
SELENIUM	MG/L	0.0050		UJ	0.2000		U	0.0050		U	0.0020		R	0.0020		UJ
SILICON	MG/L	7.5500		-												
SILVER	MG/L	0.0020		U	0.0200		U	0.0100		U	0.0200		U	0.0005		U
SODIUM	MG/L	193.0000		-	9.0200		-	12.0000		-	6.6100		-	13.8000		-
THALLIUM	MG/L	0.0050		UJ												
VANADIUM	MG/L	0.0434		-												
ZINC	MG/L	0.0060		U												
RADIONUCLIDES																
URANIUM-238	PCI/L	1.9000	.4	J	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U
URANIUM, TOTAL	UG/L	28.30002		-	1.0000	1	-	1.0000		U	2.0000	1	-	1.0000		U
URANIUM-234	PCI/L	1.8000	.4	J	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U
THORIUM-230	PCI/L	0.3000	.2	J	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U
RADIUM-226	PCI/L	1.3000	.3	J	1.5000	.7	-	1.0000		U	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L	0.2000	.2	UJ	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U
THORIUM-232	PCI/L	0.3000	.4	J	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U
THORIUM, TOTAL	UG/L	3.6480	.5	NV				3.0000		UJ	3.0000		UJ	3.0000		U
RADIUM-228	PCI/L	3.0000	1.2	U	3.0000		R	3.0000		U	3.0000		U	3.0000		UJ
THORIUM-228	PCI/L	0.2000	.5	UJ	1.2000	.4	-	1.0000		UJ	1.0000		UJ	1.0000		U
NEPTUNIUM-237	PCI/L				1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U
PLUTONIUM-239/240	PCI/L				1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		UJ
PLUTONIUM-238	PCI/L				1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		UJ
STRONTIUM-90	PCI/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L	33.80009.3		-	30.0000		UJ	30.0000		U	30.0000		U	30.0000		UJ
RUTHENIUM-106	PCI/L				150.0000		R	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L				20.0000		R	20.0000		R	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	390.0000		UNV												
GROSS BETA	PCI/L	470.0000		UNV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												

000775

SAMPLE NUMBER:	GW930707-3			003166			003452			003730			003927		
LAB:	TCT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-BUTANONE	UG/L	10.0000		UJ												
2-HEXANONE	UG/L	10.0000		UJ												
4-METHYL-2-PENTANONE	UG/L	10.0000		UJ												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	2.0000		J												
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		066422			066490			066658			066659			EMGW_SYSGEN_56		
TASK:		9.25			9.25			9.27			9.27			GWMON		
LAB:		IT			IT			IT			WMCO			NET		
WELL OR BORING NUMBER:		1027			1027			1027			1027			1027		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		18-JUN-89			13-AUG-89			21-NOV-89			21-NOV-89			15-FEB-90		
NORTH COORDINATE:		481980.79			481980.79			481980.79			481980.79			481980.79		
EAST COORDINATE:		1379319.5			1379319.5			1379319.5			1379319.5			1379319.5		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L	2.0000		-	11.0000		-				9.0000		NV	5.0000		NV
FLUORIDE	MG/L	1.0000		-	0.9600		-				0.7800		NV	0.8600		NV
NITRATE	MG/L	0.4400		J	0.1000		U				0.3200		NV			
NITRATE, AS NITROGEN	MG/L													0.1300		NV
PHENOLS	MG/L										0.0230		NV	0.0050		UNV
SULFATE	MG/L	164.0000		-	162.0000		J				139.0000		NV	127.0000		NV
TOTAL ORGANIC CARBON	MG/L	3.4500		UJ	1.0000		U				1.0000		NV	2.0000		NV
TOTAL ORGANIC HALIDES	MG/L	0.0116		J	0.0120		-				0.0100		UNV			
TOTAL ORGANIC HALOGENS	MG/L													0.0100		UNV
INORGANICS																
ALUMINUM	MG/L	0.1270		-	0.1360		-				0.2620		NV	0.2400		NV
ARSENIC	MG/L										0.0025		UNV	0.0040		NV
BARIUM	MG/L	0.0689		-	0.0740		-				0.2000		UNV	0.2000		UNV
BERYLLIUM	MG/L	0.0010		U	0.0010		U				0.0100		UNV	0.0100		UNV
CALCIUM	MG/L	124.0000		-	132.0000		-				110.0000		NV	70.2000		NV
CHROMIUM	MG/L	0.0346		-	0.0310		-				0.0050		UNV	0.0060		NV
COBALT	MG/L	0.0100		U	0.0100		U				0.0250		UNV	0.0250		UNV
COPPER	MG/L	0.0100		U	0.0100		U				0.0250		UNV	0.0250		UNV
IRON	MG/L	0.6310		-	0.5070		-				1.6700		NV	0.8780		NV
LEAD	MG/L	0.0020		U	0.0030		-				0.0050		UNV	0.0050		UNV
MAGNESIUM	MG/L	47.4000		-	48.1000		-				42.5000		NV	31.1000		NV
MANGANESE	MG/L										0.1690		NV	0.0520		NV
NICKEL	MG/L	0.0200		U	0.0200		U				0.0050		UNV	0.0050		UNV
SILVER	MG/L	0.0128		-	0.0130		-				0.0010		UNV	0.0010		UNV
SODIUM	MG/L										24.8000		NV	79.9000		NV
VANADIUM	MG/L	0.0224		-	0.0220		-				0.0500		UNV	0.0500		UNV
ZINC	MG/L	0.0208		-	0.0130		-				0.0200		UNV	0.0200		UNV

000773

RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	67.9000	8.9	R				115.0000		NV

SAMPLE NUMBER:	066422	066490	066658	066659	EMGW_SYSGEN_56
LAB:	IT	IT	IT		IT
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	1.0000 1		-	1.0000		U	131.0000	19	R				343.0000		NV
URANIUM-234	PCI/L	1.0000		U	1.0000		U	18.0000	2.7	R				29.4000		NV
THORIUM-230	PCI/L	1.0000		U	1.0000		U	1.0200	.37	R				1.0000		UNV
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	2.1600	.59	R						
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.0000		R				1.0000		UNV
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		R				16.0000		UNV
URANIUM-235	PCI/L													2.6000		NV
VOLATILES																
1,1-DICHLOROETHANE	UG/L	5.0000		U	5.0000		U				2.5000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L										2.5000		UNV	1.0000		UNV
ACETONE	UG/L	10.0000		U	10.0000		U				2.5000		UNV	2.0000		UNV
METHYLENE CHLORIDE	UG/L	11.0000		U	5.0000		U				2.5000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	5.0000		U	5.0000		U				2.5000		UNV	1.0000		UNV
TOLUENE	UG/L	5.0000		U	5.0000		UJ				2.5000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	5.0000		U	5.0000		U				2.5000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_57			EMGW_SYSGEN_58			EMGW_SYSGEN_59			EMGW_SYSGEN_60			EMGW_SYSGEN_62		
TASK:		GWMON			GWMON			GWMON			GWMON			GWMON		
LAB:		NET			NET			NET			NET			NET		
WELL OR BORING NUMBER:		1027			1027			1027			1027			1027		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		02-MAY-90			02-AUG-90			01-NOV-90			04-FEB-91			02-JUL-91		
NORTH COORDINATE:		481980.79			481980.79			481980.79			481980.79			481980.79		
EAST COORDINATE:		1379319.5			1379319.5			1379319.5			1379319.5			1379319.5		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							303.0000		NV	262.0000		NV	337.0000		NV
AMMONIA	MG/L							0.1200		NV	0.1100		NV	0.0600		NV
CHLORIDE	MG/L	4.0000		NV	4.0000		NV	1.0000		UNV	4.0000		NV	7.0000		NV
FLUORIDE	MG/L	1.6400		NV	0.5600		NV	0.5200		NV	0.6300		NV	0.6200		NV
NITRATE, AS NITROGEN	MG/L	0.0400		NV	0.0200		UNV				0.0500		NV	0.0200		UNV
NITRATE/NITRITE	MG/L							0.0300		NV						
PH	STD							7.1400		NV	7.7000		NV	7.2300		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L							1.7900		NV	1.0300		NV	0.9700		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM							569.0000		NV	688.0000		NV	774.0000		NV
SULFATE	MG/L	162.0000		NV	79.0000		NV	41.0000		NV	164.0000		NV	171.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L							412.0000		NV	418.0000		NV	522.0000		NV
TOTAL ORGANIC CARBON	MG/L	4.0000		NV	4.0000		NV	6.0000		NV	6.0000		NV	20.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.1090		NV	0.0100		UNV	0.0100		UNV
INORGANICS																
ALUMINUM	MG/L	0.0500		UNV	0.5000		UNV	0.5300		NV	0.5000		UNV	0.2000		UNV
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0200		UNV
ARSENIC	MG/L	0.0070		NV	0.0040		NV	0.0050		NV	0.0025		UNV	0.0050		UNV
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.2000		UNV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0500		UNV
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L	83.6000		NV	84.0000		NV	42.4000		NV	56.7000		NV	84.0000		NV
CHROMIUM	MG/L	0.0050		UNV	0.0050		NV	0.0110		NV	0.0050		UNV	0.0103		NV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0050		UNV
COPPER	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0200		UNV
CYANIDE	MG/L	0.0050		UNV				0.0050		UNV	0.0050		UNV	0.0050		UNV
IRON	MG/L	0.1610		NV	1.4500		NV	1.3100		NV	1.5700		NV	1.7600		NV
LEAD	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV

000729

SAMPLE NUMBER:		EMGW_SYSGEN_57		EMGW_SYSGEN_58		EMGW_SYSGEN_59		EMGW_SYSGEN_60		EMGW_SYSGEN_62	
LAB:		NET		NET		NET		NET		NET	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-FIL		NONE-FIL		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MAGNESIUM	MG/L	32.0000	NV	26.4000	NV	31.0000	NV	35.6000	NV	4.2000	NV
MANGANESE	MG/L	0.0630	NV	0.1000	NV	0.0640	NV	0.0970	NV	0.2070	NV
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV
MOLYBDENUM	MG/L	0.0250	UNV	0.0250	UNV	0.0250	UNV	0.0250	UNV	0.0100	UNV
NICKEL	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0100	UNV
POTASSIUM	MG/L	4.3400	NV	8.2200	NV	7.9300	NV	5.8400	NV	5.6000	NV
SELENIUM	MG/L	0.0025	UNV	0.0025	UNV	0.0025	UNV	0.0025	UNV	0.0050	UNV
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV
SODIUM	MG/L	29.4000	NV	24.0000	NV	29.9000	NV	27.0000	NV	18.0000	NV
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV
ZINC	MG/L	0.0200	UNV	0.0200	UNV	0.0200	UNV	0.0200	UNV	0.0250	NV
MISC											
3-METHYLPHENOL	UG/L	4.0000	UNV								
DIPHENYLAMINE	UG/L	15.0000	UNV								
TRANS-1,2-DICHLOROETHENE	UG/L					1.0000	UNV	1.0000	UNV	1.0000	UNV
PESTICIDES											
4,4'-DDD	UG/L	0.2000	UNV								
4,4'-DDE	UG/L	0.2000	UNV								
4,4'-DDT	UG/L	0.2000	UNV								
ALDRIN	UG/L	0.2000	UNV								
ALPHA-BHC	UG/L	0.2000	UNV								
AROCLOR-1016	UG/L	0.2000	UNV								
AROCLOR-1221	UG/L	0.2000	UNV								
AROCLOR-1232	UG/L	0.2000	UNV								
AROCLOR-1242	UG/L	0.2000	UNV								
AROCLOR-1248	UG/L	0.2000	UNV								
AROCLOR-1254	UG/L	0.2000	UNV								
AROCLOR-1260	UG/L	0.2000	UNV								
BETA-BHC	UG/L	0.2000	UNV								
CHLORDANE	UG/L	0.2000	UNV								
DELTA-BHC	UG/L	0.2000	UNV								
DIELDRIN	UG/L	0.2000	UNV								
ENDOSULFAN II	UG/L	0.2000	UNV								
ENDOSULFAN SULFATE	UG/L	0.2000	UNV								
ENDOSULFAN-I	UG/L	0.2000	UNV								
ENDRIN	UG/L	0.0800	UNV								
ENDRIN ALDEHYDE	UG/L	0.2000	UNV								
GAMMA-BHC (LINDANE)	UG/L	0.2000	UNV								
HEPTACHLOR	UG/L	0.2000	UNV								
HEPTACHLOR EPOXIDE	UG/L	0.2000	UNV								

SAMPLE NUMBER:		EMGW_SYSGEN_57		EMGW_SYSGEN_58		EMGW_SYSGEN_59		EMGW_SYSGEN_60		EMGW_SYSGEN_62	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
PESTICIDES											
TOXAPHENE	UG/L	0.5000	UNV								
RADIONUCLIDES											
URANIUM-238	PCI/L	149.0000	NV	75.7000	NV	105.0000	NV	113.0000	NV		
URANIUM, TOTAL	UG/L	446.0000	NV	272.0000	NV	343.0000	NV	203.0000	NV	230.0000	NV
URANIUM-234	PCI/L	35.5000	NV	18.1000	NV	23.7000	NV	24.1000	NV		
THORIUM-230	PCI/L	0.4740	NV	0.2900	NV	0.9370	NV	0.4850	NV		
RADIUM-226	PCI/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
URANIUM-235/236	PCI/L	3.7900	NV	2.3300	NV	1.8000	NV	2.9300	NV		
THORIUM-232	PCI/L	0.2500	UNV	0.2300	UNV	0.4800	UNV	0.2100	UNV		
THORIUM, TOTAL	UG/L	2.3000	UNV	2.1000	UNV	4.4000	UNV	1.9000	UNV		
RADIUM-228	PCI/L	3.0000	UNV	3.0000	UNV	3.0000	UNV	3.0000	UNV		
THORIUM-228	PCI/L	0.3040	NV	0.2560	NV	2.3100	NV	1.3900	NV		
NEPTUNIUM-237	PCI/L	0.5000	UNV			0.9000	UNV	0.5000	UNV		
PLUTONIUM-239/240	PCI/L	0.5000	UNV			0.5000	UNV	0.5000	UNV		
PLUTONIUM-238	PCI/L	0.5000	UNV			0.5000	UNV	0.5000	UNV		
STRONTIUM-90	PCI/L	1.0000	UNV			1.0000	UNV				
TECHNETIUM-99	PCI/L	18.0000	UNV			17.0000	UNV	15.0000	UNV		
RUTHENIUM-106	PCI/L	150.0000	UNV			150.0000	UNV	150.0000	UNV		
CESIUM-137	PCI/L	8.7000	UNV			10.0000	UNV	7.1000	UNV		
GROSS ALPHA	PCI/L	215.0000	NV			134.0000	NV	58.6000	NV		
GROSS BETA	PCI/L	88.5000	NV			138.0000	NV	78.0000	NV		
SEMIVOLATILES											
1,2,4-TRICHLOROBENZENE	UG/L	4.0000	UNV								
1,3-DICHLOROBENZENE	UG/L	4.0000	UNV								
1,4-DICHLOROBENZENE	UG/L	4.0000	UNV								
2,4,5-TRICHLOROPHENOL	UG/L	4.0000	UNV								
2,4,6-TRICHLOROPHENOL	UG/L	4.0000	UNV								
2,4-DICHLOROPHENOL	UG/L	4.0000	UNV								
2,4-DIMETHYLPHENOL	UG/L	4.0000	UNV								
2,4-DINITROPHENOL	UG/L	4.0000	UNV								
2,4-DINITROTOLUENE	UG/L	15.0000	UNV								
2,6-DINITROTOLUENE	UG/L	15.0000	UNV								
2-CHLOROETHYLVINYL ETHER	UG/L					10.0000	UNV	10.0000	UNV	10.0000	UNV
2-CHLORONAPHTHALENE	UG/L	4.0000	UNV								
2-CHLOROPHENOL	UG/L	4.0000	UNV								
2-METHYLPHENOL	UG/L	4.0000	UNV								
2-NITROANILINE	UG/L	15.0000	UNV								
2-NITROPHENOL	UG/L	4.0000	UNV								
3,3'-DICHLOROBENZIDINE	UG/L	15.0000	UNV								
3-NITROANILINE	UG/L	15.0000	UNV								
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000	UNV								

000781

SAMPLE NUMBER:		EMGW_SYSGEN_57		EMGW_SYSGEN_58		EMGW_SYSGEN_59		EMGW_SYSGEN_60		EMGW_SYSGEN_62	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000	UNV								
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000	UNV								
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000	UNV								
4-NITROANILINE	UG/L	15.0000	UNV								
4-NITROPHENOL	UG/L	4.0000	UNV								
ACENAPHTHYLENE	UG/L	4.0000	UNV								
ANTHRACENE	UG/L	4.0000	UNV								
BENZO(A)ANTHRACENE	UG/L	4.0000	UNV								
BENZO(A)PYRENE	UG/L	4.0000	UNV								
BENZO(B)FLUORANTHENE	UG/L	4.0000	UNV								
BENZO(G,H,I)PERYLENE	UG/L	4.0000	UNV								
BENZO(K)FLUORANTHENE	UG/L	4.0000	UNV								
BENZOIC ACID	UG/L	4.0000	UNV								
BENZYL ALCOHOL	UG/L	40.0000	UNV								
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000	UNV								
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000	UNV								
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	15.0000	UNV								
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4.0000	UNV								
BUTYL BENZYL PHTHALATE	UG/L	4.0000	UNV								
CHRYSENE	UG/L	4.0000	UNV								
DI-N-BUTYL PHTHALATE	UG/L	4.0000	UNV								
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000	UNV								
DIBENZOFURAN	UG/L	4.0000	UNV								
DIETHYL PHTHALATE	UG/L	4.0000	UNV								
DIMETHYL PHTHALATE	UG/L	4.0000	UNV								
FLUORANTHENE	UG/L	4.0000	UNV								
FLUORENE	UG/L	4.0000	UNV								
HEXACHLOROBENZENE	UG/L	4.0000	UNV								
HEXACHLOROBUTADIENE	UG/L	4.0000	UNV								
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000	UNV								
HEXACHLOROETHANE	UG/L	4.0000	UNV								
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000	UNV								
ISOPHORONE	UG/L	4.0000	UNV								
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000	UNV								
N-NITROSODIPHENYLAMINE	UG/L	4.0000	UNV								
NAPHTHALENE	UG/L	4.0000	UNV								
NITROBENZENE	UG/L	4.0000	UNV								
P-CHLOROANILINE	UG/L	4.0000	UNV								
PENTACHLOROPHENOL	UG/L	4.0000	UNV								
PHENANTHRENE	UG/L	4.0000	UNV								
PHENOL	MG/L	4.0000	UNV								
PYRENE	UG/L	4.0000	UNV								
PYRIDINE	UG/L	4.0000	UNV								

VOLATILES																				
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
SAMPLE NUMBER:		EMGW_SYSGEN_57			EMGW_SYSGEN_58			EMGW_SYSGEN_59			EMGW_SYSGEN_60			EMGW_SYSGEN_62		
LAB:		NET			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV				1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	1.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	1.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

000783

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_63	GW930112-7	GW930416-2	066428	066492
TASK:	GWMON	RCRA	50.03.23	9.25	9.25
LAB:	NET	NET	DATACHEM	IT	IT
WELL OR BORING NUMBER:	1027	1027	1027	1028	1028
DEPTH:	-	-	-	-	-
DATE COLLECTED:	09-OCT-91	12-JAN-93	16-APR-93	18-JUN-89	13-AUG-89
NORTH COORDINATE:	481980.79	481980.79	481980.79	481821.6	481821.6
EAST COORDINATE:	1379319.5	1379319.5	1379319.5	1378158.13	1378158.13
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	338.0000		NV	286.0000		NV	150.0000		-						
ALLYL CHLORIDE	UG/L				5.0000		UNV									
AMMONIA	MG/L	0.1400		NV	0.0500		NV	0.0500		U						
BICARBONATE ALKALINITY	MG/L				397.0000		NV	200.0000		-						
CARBONATE ALKALINITY	MG/L				3.0000		UNV	3.0000		U						
CHLORIDE	MG/L	8.0000		NV	7.0000		NV	0.5000		-	520.0000		-			
FLUORIDE	MG/L	0.7400		NV	0.7600		NV	0.7000		-	0.2250		-			
NITRATE	MG/L				0.0200		UNV				156.0000		J			
NITRATE, AS NITROGEN	MG/L	0.0500		NV												
NITRATE/NITRITE	MG/L							0.0500		U						
NITRITE, AS NITROGEN	MG/L				0.0200		UNV									
PH	STD	7.2100		NV	7.4100		NV	7.6000		-						
PHENOLS	MG/L	0.0050		UNV	0.0100		UNV	0.0100		U						
PHOSPHORUS	MG/L	0.6100		NV	1.2500		NV	1.1000		-						
SPECIFIC CONDUCTIVITY	UMHOS/CM	883.0000		NV	770.0000		NV	340.0000		-						
SULFATE	MG/L	146.0000		NV	125.0000		NV	31.0000		-	643.0000		-			
TOTAL DISSOLVED SOLIDS	MG/L	648.0000		NV	408.0000		NV	220.0000		-						
TOTAL KJELDAHL NITROGEN	MG/L							0.8000		-						
TOTAL ORGANIC CARBON	MG/L	21.0000		NV	8.0000		NV	10.0000		J	9.0800		J			
TOTAL ORGANIC HALIDES	MG/L				0.0100		UNV	0.0100		UJ	0.0324		J			
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV												
TOTAL SOLIDS	MG/L				447.0000		NV	230.0000		-						
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	0.2000		UNV	0.0240		U	0.2750		-			
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0450		U						
ARSENIC	MG/L	0.0050		UNV	0.0083		NV	0.0010		U						
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.0166		-	0.1060		-			
BERYLLIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0010		U	0.0022		-			

000784

9204

SAMPLE NUMBER:		EMGW_SYSGEN_63		GW930112-7		GW930416-2			066428			066492		
LAB:		NET		NET		DATACHEM			IT					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0030		U						
CALCIUM	MG/L	110.0000		NV	79.0000		NV	42.8000		-	448.0000		-			
CHROMIUM	MG/L	0.0026		NV	0.0020		UNV	0.0121		U	0.0637		-			
COBALT	MG/L	0.0050		UNV	0.0050		UNV	0.0060		U	0.0170		-			
COPPER	MG/L	0.0200		UNV	0.0200		UNV	0.0040		U	0.0100		U			
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0100		U						
IRON	MG/L	1.1000		NV	0.7300		NV	0.1240		U	0.1640		-			
LEAD	MG/L	0.0030		UNV	0.0030		UNV	0.0017		UJ	0.0020		U			
MAGNESIUM	MG/L	34.0000		NV	37.5000		NV	14.0000		-	190.0000		-			
MANGANESE	MG/L	0.1470		NV	0.1080		NV	0.0030		U						
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		-						
MOLYBDENUM	MG/L	0.0100		UNV	0.0100		UNV									
NICKEL	MG/L	0.0100		UNV	0.0100		UNV	0.0190		U	0.9810		-			
POTASSIUM	MG/L	5.1000		NV	6.4000		NV	4.0200		-						
SELENIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0020		UJ						
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0030		UJ	0.0100		U			
SODIUM	MG/L	14.0000		NV	15.0000		NV	3.8600		-						
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0010		U						
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.0040		U	0.0611		-			
ZINC	MG/L	0.0200		UNV	0.0200		UNV	0.0060		U	0.0552		-			
MISC																
1,2,3-TRICHLOROPROPANE	UG/L				5.0000		UNV									
1,2-DIBROMO-3-CHLOROPROPANE	UG/L				2.0000		UNV									
1,2-DIBROMOETHANE	UG/L				2.0000		UNV									
2-CHLORO-1,3-BUTADIENE	UG/L				5.0000		UNV									
ACROLEIN	UG/L				50.0000		UNV									
ACROLEIN	UG/L				50.0000		UNV									
ACRYLONITRILE	UG/L				50.0000		UNV									
DICHLORODIFLUOROMETHANE	UG/L				10.0000		UNV									
ETHYL CYANIDE	UG/L				20.0000		UNV									
ETHYL METHACRYLATE	UG/L				5.0000		UNV									
IODOMETHANE	UG/L				5.0000		UNV									
METHACRYLONITRILE	UG/L				5.0000		UNV									
METHYL METHACRYLATE	UG/L				5.0000		UNV									
PENTACHLOROETHANE	UG/L				5.0000		UNV									
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TRANS-1,4-DICHLORO-2-BUTENE	UG/L				20.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L							151.0000	34.1	J	22.6000	2.8	-	34.3000	4.3	-
URANIUM, TOTAL	UG/L	130.0000		NV	354.0000		NV	418.0000	29.3	J	60.0000	10	-	70.0000	13	-
URANIUM-235	PCI/L							34.3000	18	J	8.6000	1.2	-	13.3000	1.9	-

000785

SAMPLE NUMBER:		EMGW_SYSGEN_63			GW930112-7			GW930416-2			066428			066492		
LAB:								CORE			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L				0.8000	.3	NV	0.2000	.1	UJ	1.0000		U	1.0000		U
RADIUM-226	PCI/L				1.0000	.4	UNV	1.4000	.4	-						
URANIUM-235/236	PCI/L							1.1000	.9	J	1.0000		U	1.0000		U
THORIUM-232	PCI/L				0.2000	.1	UNV	0.2000	.1	UJ						
THORIUM, TOTAL	UG/L				0.9000		NV	1.8240	.1	NV						
RADIUM-228	PCI/L				3.0000	1.2	UNV	7.6000	1.6	-						
THORIUM-228	PCI/L				0.2000	.1	UNV	0.2000	.1	UJ	1.0000		U	1.0000		U
TECHNETIUM-99	PCI/L							53.4000	9.7	-	30.0000		U	63.0000	32	J
GROSS ALPHA	PCI/L				64.4000	5.1	NV	115.0000	5.5	NV						
GROSS BETA	PCI/L				101.0000	3.8	NV	134.0000	3.5	NV						
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV									
CUMENE	UG/L				1.0000		UNV									
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L				1.0000		UNV									
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV				10.0000		U						
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
2-BUTANONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U						
2-HEXANONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U						
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U						
ACETONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		U			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
BROMOMETHANE	UG/L	1.0000		UNV	5.0000		UNV	10.0000		U						
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROETHANE	UG/L	1.0000		UNV	10.0000		UNV	10.0000		U						
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROMETHANE	UG/L	1.0000		UNV	10.0000		UNV	10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
METHYLENE CHLORIDE	UG/L	1.0000		UNV	10.0000		UNV	10.0000		U	10.0000		UJ			

SAMPLE NUMBER:		EMGW_SYSGEN_63			GW930112-7			GW930416-2			066428			066492		
LAB:		NET			NET			DATACHEM			IT					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			R-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ			
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ			
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ			
TRICHLOROFLUOROMETHANE	UG/L				1.0000		UNV									
VINYL ACETATE	UG/L	2.0000		UNV	10.0000		UNV									
VINYL CHLORIDE	UG/L	1.0000		UNV	5.0000		UNV	10.0000		UJ						
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066660	EMGW_SYSGEN_67	EMGW_SYSGEN_68	EMGW_SYSGEN_69	003076
TASK:	9.27	GWMON	GWMON	GWMON	3.2.4
LAB:	IT	NET	NET	NET	IT
WELL OR BORING NUMBER:	1028	1028	1028	1028	1029
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-NOV-89	07-AUG-90	08-AUG-90	14-AUG-90	05-APR-88
NORTH COORDINATE:	481821.6	481821.6	481821.6	481821.6	480826.11
EAST COORDINATE:	1378158.13	1378158.13	1378158.13	1378158.13	1378398.38
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L													0.1000		-
CHLORIDE	MG/L				692.0000		NV							7.1000		-
FLUORIDE	MG/L				0.2200		NV							1.5000		-
NITRATE	MG/L													5.0000		U
NITRATE, AS NITROGEN	MG/L				247.0000		NV									
PHENOLS	MG/L							0.0050		UNV				0.0100		U
PHOSPHATE	MG/L													0.1000		-
SULFATE	MG/L				565.0000		NV							210.0000		-
TOTAL ORGANIC CARBON	MG/L							6.0000		NV						
TOTAL ORGANIC HALOGENS	MG/L				0.1560		NV	0.0630		NV						
TOTAL ORGANIC NITROGEN	MG/L													0.8000		-
INORGANICS																
ALUMINUM	MG/L				0.5000		UNV				0.5000		UNV	0.0410		-
ANTIMONY	MG/L				0.0250		UNV				0.0250		UNV	0.0300		U
ARSENIC	MG/L				0.0060		NV				0.0025		UNV	0.0030		U
BARIUM	MG/L				0.2370		NV				0.2580		NV	0.1820		-
BERYLLIUM	MG/L				0.0100		UNV				0.0100		UNV	0.0010		U
CADMIUM	MG/L				0.0010		UNV				0.0010		UNV	0.0050		U
CALCIUM	MG/L				323.0000		NV				548.0000		NV	96.8000		-
CHROMIUM	MG/L				0.0490		NV				0.0050		UNV	0.0100		U
COBALT	MG/L				0.0250		UNV				0.0250		UNV	0.0200		U
COPPER	MG/L				0.0730		NV				0.0250		UNV	0.0240		U
CYANIDE	MG/L													0.0200		U
IRON	MG/L				21.3000		NV				0.4390		NV	0.0430		-
LEAD	MG/L				1.1500		NV				0.0050		UNV	0.0300		U
MAGNESIUM	MG/L				215.0000		NV				258.0000		NV	43.9000		-
MANGANESE	MG/L				0.6990		NV				0.5250		NV	0.0560		-
MERCURY	MG/L				0.0002		UNV				0.0002		UNV	0.0002		U

SAMPLE NUMBER:		066660			EMGW_SYSGEN_67			EMGW_SYSGEN_68			EMGW_SYSGEN_69			003076		
LAB:					NET						NET			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MOLYBDENUM	MG/L				0.1060		NV				0.0410		NV	0.0200		-
NICKEL	MG/L				0.8290		NV				0.4450		NV	0.0200		U
POTASSIUM	MG/L				7.6600		NV				6.0200		NV	1.1900		-
SELENIUM	MG/L				0.0025		UNV				0.0025		UNV	0.0040		U
SILVER	MG/L				0.0010		UNV				0.0010		UNV	0.0050		U
SODIUM	MG/L				354.0000		NV				344.0000		NV	62.8000		-
THALLIUM	MG/L				0.0100		UNV				0.0100		UNV	0.0040		U
VANADIUM	MG/L				0.0600		NV				0.0500		UNV	0.0100		U
ZINC	MG/L				0.0200		UNV				0.0200		UNV	0.0420		U
PESTICIDES																
4,4'-DDD	UG/L													0.1000		U
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.1000		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.1000		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	31.40004		R										1.4000	.5	J
URANIUM, TOTAL	UG/L	68.000010		R										3.0000	1	R
URANIUM-234	PCI/L	12.60001.8		R										1.7000	.6	J

000789

SAMPLE NUMBER:		066660			EMGW_SYSGEN_67			EMGW_SYSGEN_68			EMGW_SYSGEN_69			003076		
LAB:		IT												IT		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L	1.4000		R										1.0000		UJ
RADIUM-226	PCI/L													1.0000		U
URANIUM-235/236	PCI/L	1.0000		R										1.0000		UJ
THORIUM-232	PCI/L	1.4000		R										1.0000		UJ
RADIUM-228	PCI/L													3.0000		U
THORIUM-228	PCI/L	1.6000	1.1	R										1.0000		UJ
STRONTIUM-90	PCI/L													5.0000		UJ
TECHNETIUM-99	PCI/L	30.0000		R										30.0000		R
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		U
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U

000790

5704

SAMPLE NUMBER:	066660	EMGW_SYSGEN_67	EMGW_SYSGEN_68	EMGW_SYSGEN_69	003076
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													50.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV							5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV							5.0000		U
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV							5.0000		U
1,1-DICHLOROETHANE	UG/L				1.0000		UNV							5.0000		U
1,1-DICHLOROETHENE	UG/L				1.0000		UNV							5.0000		U
1,2-DICHLOROETHANE	UG/L				1.0000		UNV							5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV							5.0000		U
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV							5.0000		U
2-BUTANONE	UG/L				2.0000		UNV							10.0000		U

SAMPLE NUMBER:	066660	EMGW_SYSGEN_67	EMGW_SYSGEN_68	EMGW_SYSGEN_69	003076
LAB:		NET			IT
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-HEXANONE	UG/L				2.0000		UNV							10.0000		U
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV							10.0000		U
ACETONE	UG/L				2.0000		UNV							10.0000		U
BENZENE	UG/L				1.0000		UNV							5.0000		U
BROMODICHLOROMETHANE	UG/L				1.0000		UNV							5.0000		U
BROMOFORM	UG/L				1.0000		UNV							5.0000		U
BROMOMETHANE	UG/L				1.0000		UNV							10.0000		U
CARBON DISULFIDE	UG/L				1.0000		UNV							5.0000		U
CARBON TETRACHLORIDE	UG/L				1.0000		UNV							5.0000		U
CHLOROBENZENE	UG/L				1.0000		UNV							5.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L				1.0000		UNV							5.0000		U
CHLOROMETHANE	UG/L				1.0000		UNV							10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV							5.0000		U
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV							5.0000		U
ETHYLBENZENE	UG/L				1.0000		UNV							5.0000		U
METHYLENE CHLORIDE	UG/L				1.0000		UNV							5.0000		U
STYRENE	UG/L				1.0000		UNV							5.0000		U
TETRACHLOROETHENE	UG/L				1.0000		UNV							5.0000		U
TOLUENE	UG/L				1.0000		UNV							5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV							5.0000		U
TRICHLOROETHENE	UG/L				1.0000		UNV							5.0000		U
VINYL ACETATE	UG/L				2.0000		UNV							10.0000		U
VINYL CHLORIDE	UG/L				1.0000		UNV							10.0000		U
XYLENES, TOTAL	UG/L				1.0000		UNV							5.0000		U

000392

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003354				003634				003852				004061				066822					
TASK:		3.2.4				3.2.4				3.2.4				3.2.4				9.27					
LAB:		IT				IT				IT				IT				IT					
WELL OR BORING NUMBER:		1029				1029				1029				1029				1029					
DEPTH:		-				-				-				-				-					
DATE COLLECTED:		20-JUL-88				23-OCT-88				22-JAN-89				31-MAR-89				15-DEC-89					
NORTH COORDINATE:		480826.11				480826.11				480826.11				480826.11				480826.11					
EAST COORDINATE:		1378398.38				1378398.38				1378398.38				1378398.38				1378398.38					
QA TYPE:		NORMAL				NORMAL				NORMAL				NORMAL				NORMAL					
QC OF:																							
SUFFIX/FILTERFLAG:		NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF					
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)							
GENERAL CHEMISTRY																							
AMMONIA	MG/L	0.1000		U	0.1000		U	0.1000		U													
CHLORIDE	MG/L	1.5000		-	12.5000		-	2.0000		U													
FLUORIDE	MG/L	1.1000		-	1.1000		-	1.3000		-													
NITRATE	MG/L	0.1730		J	0.1000		UJ	0.0500		R													
PHENOLS	MG/L	0.0100		U	0.0300		J	0.0100		U													
PHOSPHORUS	MG/L	0.1500		-	0.2380		-	0.4000		-													
SULFATE	MG/L	124.0000		-	81.0000		J	140.0000		-													
TOTAL KJELDAHL NITROGEN	MG/L				0.1000		U	0.1000		-													
TOTAL ORGANIC HALIDES	MG/L				0.0500		U	0.0100		U													
TOTAL ORGANIC NITROGEN	MG/L	0.0240		J	0.1000		U	0.1000		-													
INORGANICS																							
ARSENIC	MG/L	0.2000		U	0.0020		U	0.0020		U													
BARIUM	MG/L	0.1590		-	0.1630		-	0.1500		-													
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0080		-													
CALCIUM	MG/L	95.2000		-	101.0000		-	95.8000		-													
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0220		-													
COPPER	MG/L	0.0100		U	0.0100		U	0.0140		-													
IRON	MG/L	0.0050		U	0.1030		-	0.0400		U													
LEAD	MG/L	0.0500		U	0.0150		J	0.0020		UJ													
MAGNESIUM	MG/L	43.9000		-	44.4000		-	43.2000		-													
MANGANESE	MG/L	0.0700		-	0.1260		-	0.0520		-													
MERCURY	MG/L	0.0002		U	0.0002		UJ	0.0002		U													
MOLYBDENUM	MG/L	0.0300		-	0.0200		U	0.0200		U													
NICKEL	MG/L	0.0200		U	0.0200		U	0.0250		-													
POTASSIUM	MG/L	1.6500		J	3.6000		-	1.9400		-													
SELENIUM	MG/L	0.2000		U	0.0020		UJ	0.0040		U													
SILVER	MG/L	0.0100		U	0.0005		U	0.0005		U													
SODIUM	MG/L	31.9000		J	27.6000		-	32.2000		-													

000793

SAMPLE NUMBER:		003354			003634			003852			004061			066822		
LAB:		IT			IT			IT								
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L										0.5000		U			
DEMETON	UG/L										0.4000		U			
DIAZINON	UG/L										0.2000		U			
DISULFOTON	UG/L										0.2000		U			
ETHION	UG/L										0.2000		U			
MALATHION	UG/L										0.2000		U			
METHYL PARATHION	UG/L										0.2000		U			
PARATHION	UG/L										0.2000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		R	1.0000		UJ	1.0000		U				2.3700	.48	-
URANIUM, TOTAL	UG/L	3.0000	1	-	2.0000	1	-	3.0000	1	-				7.2600	.77	-
URANIUM-234	PCI/L	1.4000	.3	R	1.2000	.3	J	1.7000	.5	-				3.6500	.64	-
THORIUM-230	PCI/L	1.0000		U	1.0000		UJ	1.0000		U				1.0000		U
RADIUM-226	PCI/L	1.0000		U	1.0000		U	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		U	1.0000		UJ	1.0000		U				1.0000		U
THORIUM-232	PCI/L	1.0000		U	1.0000		UJ	1.0000		U						
THORIUM, TOTAL	UG/L	2.0000		U	3.0000		UJ	4.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.1000		UJ						
THORIUM-228	PCI/L	1.0000		U	1.0000		UJ	1.0000		U				1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		UJ	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U				30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						

000794

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120522			120522F			120524			120524F			120526		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		TCT			TCT			CORE			CORE			FERMCO		
WELL OR BORING NUMBER:		1029			1029			1029			1029			1029		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		12-JUL-93			12-JUL-93			12-JUL-93			12-JUL-93			12-JUL-93		
NORTH COORDINATE:		480826.11			480826.11			480826.11			480826.11			480826.11		
EAST COORDINATE:		1378398.38			1378398.38			1378398.38			1378398.38			1378398.38		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	434.0000		-												
AMMONIA	MG/L	0.1090		-												
CHLORIDE	MG/L	1.2200		-												
FLUORIDE	MG/L	1.1000		-												
NITRATE	MG/L	0.0200		U												
PHENOLS	MG/L	0.0050		U												
PHOSPHATE	MG/L	0.2280		J												
SULFATE	MG/L	57.1000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL KJELDAHL NITROGEN	MG/L	0.1000		U												
TOTAL ORGANIC CARBON	MG/L	3.9000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0230		UJ												
TOTAL ORGANIC NITROGEN	MG/L	0.1000		U												
INORGANICS																
ALUMINUM	MG/L	2.7500		-	0.0609		U									
ANTIMONY	MG/L	0.0140		U	0.0140		U									
ARSENIC	MG/L	0.0073		J	0.0020		U									
BARIUM	MG/L	0.2350		-	0.1700		-									
BERYLLIUM	MG/L	0.0050		U	0.0050		U									
CADMIUM	MG/L	0.0050		UJ	0.0056		J									
CALCIUM	MG/L	110.0000		-	90.9000		-									
CHROMIUM	MG/L	0.0060		U	0.0060		U									
COBALT	MG/L	0.0170		U	0.0170		U									
COPPER	MG/L	0.0090		U	0.0090		U									
CYANIDE	MG/L	0.0050		U	0.0050		U									
IRON	MG/L	5.7500		-	0.0595		U									
LEAD	MG/L	0.0065		-	0.0010		U									
MAGNESIUM	MG/L	46.8000		-	41.9000		-									

000955

SAMPLE NUMBER:		120522			120522F			120524			120524F			120526		
LAB:		TCT			TCT											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	0.2940		-	0.0798		-									
MERCURY	MG/L	0.0001		U	0.0001		U									
MOLYBDENUM	MG/L	0.0170		UJ	0.0170		UJ									
NICKEL	MG/L	0.0180		U	0.0180		U									
POTASSIUM	MG/L	2.4700		-	1.5100		-									
SELENIUM	MG/L	0.0020		U	0.0020		U									
SILICON	MG/L	12.7000		J	7.3700		J									
SILVER	MG/L	0.0020		U	0.0020		U									
SODIUM	MG/L	18.4000		-	17.5000		-									
THALLIUM	MG/L	0.0010		UJ	0.0010		UJ									
VANADIUM	MG/L	0.0240		U	0.0240		U									
ZINC	MG/L	0.0227		U	0.0060		U									
RADIONUCLIDES																
URANIUM-238	PCI/L							0.6000	.6	U	0.4000	.3	J			
URANIUM, TOTAL	UG/L							2.5000	.2	-	1.8000	.1	-	1.4000		NV
URANIUM-234	PCI/L							1.7000	3	-	0.8000	.3	J			
THORIUM-230	PCI/L							0.4000	.2	U	0.2000	.2	UJ			
RADIUM-226	PCI/L							1.0000	.3	UJ	1.0000	.3	UJ			
URANIUM-235/236	PCI/L							0.3000	.3	U	0.2000	.1	UJ			
THORIUM-232	PCI/L							0.2000	.3	U	0.2000	.1	UJ			
THORIUM, TOTAL	UG/L							1.8240	.3	NV						
RADIUM-228	PCI/L							3.0000	1	U	3.0000	.9	UJ			
THORIUM-228	PCI/L							0.2000	.2	U	0.2000	.2	UJ			
TECHNETIUM-99	PCI/L							15.0000	7.1	U	15.0000	7.8	UJ			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		J												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		U												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												

000095

5704

SAMPLE NUMBER:		120522		120522F			120524			120524F			120526		
LAB:		TCT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	1.0000		J												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120526F	123363	EMGW_SYSGEN_70	EMGW_SYSGEN_71	003735
TASK:	50.03.23	10.03.08	GWMON	GWMON	3.2.4
LAB:	FERMCO	IT	NET	NET	IT
WELL OR BORING NUMBER:	1029	1029	1029	1029	1030
DEPTH:	-	0-29	-	-	-
DATE COLLECTED:	12-JUL-93	15-JUL-93	19-APR-90	18-OCT-90	20-NOV-88
NORTH COORDINATE:	480826.11	480826.11	480826.11	480826.11	481232.33
EAST COORDINATE:	1378398.38	1378398.38	1378398.38	1378398.38	1378976.48
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										345.0000		NV			
AMMONIA	MG/L										0.0500		NV			
CHLORIDE	MG/L							3.0000		NV	3.0000		NV			
FLUORIDE	MG/L										0.8600		NV			
NITRATE, AS NITROGEN	MG/L							0.0800		NV						
NITRATE/NITRITE	MG/L										0.0300		NV			
PH	STD										7.3100		NV			
PHENOLS	MG/L										0.0050		UNV			
PHOSPHORUS	MG/L										2.5300		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM										723.0000		NV			
SULFATE	MG/L							64.0000		NV	56.0000		NV			
TOTAL DISSOLVED SOLIDS	MG/L										462.0000		NV			
TOTAL ORGANIC CARBON	MG/L							1.0000		NV	3.0000		NV			
TOTAL ORGANIC HALOGENS	MG/L							0.0150		NV	0.0100		UNV			
INORGANICS																
CYANIDE	MG/L										0.0050		UNV			
MOLYBDENUM	MG/L				0.0200		U									
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L							1.7300		NV				10.5000	1.4	R
URANIUM, TOTAL	UG/L	1.1000		NV				3.6400		NV				30.0000	5	R
URANIUM-234	PCI/L							2.3200		NV				15.2000	2	R
THORIUM-230	PCI/L							0.6700		UNV				0.4000		R

000798

5704

SAMPLE NUMBER:		120526F			123363			EMGW_SYSGEN_70			EMGW_SYSGEN_71			003735		
LAB:								IT						IT		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L							1.0000		UNV				0.3000	.1	R
URANIUM-235/236	PCI/L							0.5290		NV				0.4000	.2	R
THORIUM-232	PCI/L							0.6700		UNV				0.4000		R
THORIUM, TOTAL	UG/L							6.0000		UNV				4.0000		R
RADIUM-228	PCI/L							3.0000		UNV				2.3000		R
THORIUM-228	PCI/L							0.6700		UNV				0.4000		R
NEPTUNIUM-237	PCI/L				0.5000	.114	UJ							0.2000		R
PLUTONIUM-239/240	PCI/L				0.5000	.0495	UJ							0.0500		R
PLUTONIUM-238	PCI/L				0.5000	.085	UJ							0.0500		R
STRONTIUM-90	PCI/L				1.0000	.442	UJ							0.7000		R
TECHNETIUM-99	PCI/L													23.0000		R
RUTHENIUM-106	PCI/L				150.0000		UJ							71.0000		R
CESIUM-137	PCI/L				11.6000		UJ							11.0000		R
GROSS ALPHA	PCI/L							29.9000	.0128	NV						
GROSS BETA	PCI/L							28.0000	.0151	NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		UJ									
1,2-DICHLOROBENZENE	UG/L				10.0000		UJ									
1,3-DICHLOROBENZENE	UG/L				10.0000		UJ	1.0000		UNV						
1,4-DICHLOROBENZENE	UG/L				10.0000		UJ	1.0000		UNV						
2,4,5-TRICHLOROPHENOL	UG/L				25.0000		UJ									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		UJ									
2,4-DICHLOROPHENOL	UG/L				10.0000		UJ									
2,4-DIMETHYLPHENOL	UG/L				10.0000		UJ									
2,4-DINITROPHENOL	UG/L				25.0000		UJ									
2,4-DINITROTOLUENE	UG/L				10.0000		UJ									
2,6-DINITROTOLUENE	UG/L				10.0000		UJ									
2-CHLOROETHYLVINYL ETHER	UG/L							60.0000		UNV	10.0000		UNV			
2-CHLORONAPHTHALENE	UG/L				10.0000		UJ									
2-CHLOROPHENOL	UG/L				10.0000		UJ									
2-METHYLNAPHTHALENE	UG/L				10.0000		UJ									
2-METHYLPHENOL	UG/L				10.0000		UJ									
2-NITROANILINE	UG/L				25.0000		UJ									
2-NITROPHENOL	UG/L				10.0000		UJ									
3,3'-DICHLOROBENZIDINE	UG/L				10.0000		UJ									
3-NITROANILINE	UG/L				25.0000		UJ									
4,6-DINITRO-2-METHYLPHENOL	UG/L				25.0000		UJ									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		UJ									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		UJ									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		UJ									
4-METHYLPHENOL	UG/L				10.0000		UJ									
4-NITROANILINE	UG/L				25.0000		UJ									
4-NITROPHENOL	UG/L				25.0000		UJ									

003739

SAMPLE NUMBER:	120526F	123363	EMGW_SYSGEN_70	EMGW_SYSGEN_71	003735
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
ACENAPHTHENE	UG/L				10.0000		UJ									
ACENAPHTHYLENE	UG/L				10.0000		UJ									
ANTHRACENE	UG/L				10.0000		UJ									
BENZO(A)ANTHRACENE	UG/L				10.0000		UJ									
BENZO(A)PYRENE	UG/L				10.0000		UJ									
BENZO(B)FLUORANTHENE	UG/L				10.0000		UJ									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ									
BENZO(K)FLUORANTHENE	UG/L				10.0000		UJ									
BENZOIC ACID	UG/L				50.0000		UJ									
BENZYL ALCOHOL	UG/L				10.0000		UJ									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		UJ									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		UJ									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				1.0000		J									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		UJ									
CARBAZOLE	UG/L				10.0000		UJ									
CHRYSENE	UG/L				10.0000		UJ									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UJ									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UJ									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ									
DIBENZOFURAN	UG/L				10.0000		UJ									
DIETHYL PHTHALATE	UG/L				10.0000		UJ									
DIMETHYL PHTHALATE	UG/L				10.0000		UJ									
FLUORANTHENE	UG/L				10.0000		UJ									
FLUORENE	UG/L				10.0000		UJ									
HEXACHLOROBENZENE	UG/L				10.0000		UJ									
HEXACHLOROBUTADIENE	UG/L				10.0000		UJ									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UJ									
HEXACHLOROETHANE	UG/L				10.0000		UJ									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		UJ									
ISOPHORONE	UG/L				10.0000		UJ									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		UJ									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		UJ									
NAPHTHALENE	UG/L				10.0000		UJ									
NITROBENZENE	UG/L				10.0000		UJ									
P-CHLOROANILINE	UG/L				10.0000		UJ									
PENTACHLOROPHENOL	UG/L				25.0000		UJ									
PHENANTHRENE	UG/L				10.0000		UJ									
PHENOL	MG/L				10.0000		UJ									
PYRENE	UG/L				10.0000		UJ									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			

SAMPLE NUMBER:	120526F	123363	EMGW_SYSGEN_70	EMGW_SYSGEN_71	003735
LAB:			NET	NET	
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
1,2-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,2-DICHLOROETHENE (TOTAL)	UG/L										1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	1.0000		UNV			
2-BUTANONE	UG/L										2.0000		UNV			
2-HEXANONE	UG/L										2.0000		UNV			
4-METHYL-2-PENTANONE	UG/L										2.0000		UNV			
ACETONE	UG/L										2.0000		UNV			
BENZENE	UG/L							1.0000		UNV	1.0000		UNV			
BROMODICHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
BROMOFORM	UG/L							1.0000		UNV	1.0000		UNV			
BROMOMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
CARBON DISULFIDE	UG/L										1.0000		UNV			
CARBON TETRACHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROETHANE	UG/L										1.0000		UNV			
CHLOROFORM	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV			
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
ETHYLBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
METHYLENE CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
STYRENE	UG/L										1.0000		UNV			
TETRACHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
TOLUENE	UG/L							1.0000		UNV	1.0000		UNV			
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV			
TRICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L										2.0000		UNV			
VINYL CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
XYLENES, TOTAL	UG/L										1.0000		UNV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		066430			066662			066663			GW930707-4			003494		
TASK:		9.25			9.27			9.27			50.03.23			3.2.4		
LAB:		IT			IT			WMCO			TCT			IT		
WELL OR BORING NUMBER:		1030			1030			1030			1030			1031		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		18-JUN-89			21-NOV-89			21-NOV-89			07-JUL-93			11-AUG-88		
NORTH COORDINATE:		481232.33			481232.33			481232.33			481232.33			481167.08		
EAST COORDINATE:		1378976.48			1378976.48			1378976.48			1378976.48			1378136.61		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										323.0000		-			
AMMONIA	MG/L										0.0300		U			
CHLORIDE	MG/L							5.0000		NV	2.9700		-			
FLUORIDE	MG/L							0.6500		NV	0.8200		-			
NITRATE	MG/L							1.4100		NV						
NITRATE/NITRITE	MG/L										0.4130		-			
PHENOLS	MG/L							0.0120		NV						
PHOSPHATE	MG/L										0.1230		R			
SULFATE	MG/L							153.0000		NV	373.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										0.3000		U			
TOTAL ORGANIC CARBON	MG/L							9.0000		NV						
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV						
TOTAL ORGANIC NITROGEN	MG/L										0.3000		U			
INORGANICS																
ALUMINUM	MG/L	0.1880		-				6.9200		NV	0.1470		U			
ANTIMONY	MG/L										0.0140		U			
ARSENIC	MG/L							0.0025		UNV	0.0032		-			
BARIUM	MG/L	0.0647		-				0.2000		UNV	0.0329		-			
BERYLLIUM	MG/L	0.0010		U				0.0100		UNV	0.0050		UR			
CADMIUM	MG/L										0.0050		U			
CALCIUM	MG/L	154.0000		-				213.0000		NV	133.0000		-			
CHROMIUM	MG/L	0.0436		-				0.2460		NV	0.0060		UJ			
COBALT	MG/L	0.0100		U				0.0250		UNV	0.0170		U			
COPPER	MG/L	0.0100		U				0.1560		NV	0.0090		U			
CYANIDE	MG/L										0.0050		U			
IRON	MG/L	0.1050		-				8.0000		NV	0.0220		U			
LEAD	MG/L	0.0020		U				0.0160		NV	0.0010		UJ			
MAGNESIUM	MG/L	111.0000		-				115.0000		NV	80.0000		-			

SAMPLE NUMBER:		066430			066662			066663			GW930707-4			003494		
LAB:		IT						WMCO			TCT					
SUFFIX/FILTERFLAG:		NONE-FIL			-			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							0.2790		NV	0.0040		U			
MERCURY	MG/L										0.0001		U			
MOLYBDENUM	MG/L										0.0170		UJ			
NICKEL	MG/L	0.1360		-				0.1930		NV	0.0180		UJ			
POTASSIUM	MG/L										2.7500		-			
SELENIUM	MG/L										0.0050		UJ			
SILICON	MG/L										4.1200		-			
SILVER	MG/L	0.0146		-				0.0010		UNV	0.0020		U			
SODIUM	MG/L							57.0000		NV	41.6000		-			
THALLIUM	MG/L										0.0010		UJ			
VANADIUM	MG/L	0.0325		-				0.0500		UNV	0.0240		U			
ZINC	MG/L	0.0268		-				0.1000		NV	0.0060		-			
RADIONUCLIDES																
URANIUM-238	PCI/L				6.6200	.97	R				3.1000	.6	J	1.4000	.3	-
URANIUM, TOTAL	UG/L				1.0000		R				12.0000		NV	3.0000	1	-
URANIUM-234	PCI/L				6.1500	.91	R				3.9000	.5	J	1.1000	.3	-
THORIUM-230	PCI/L				1.0000		R				0.2000	.2	UJ	1.0000		UJ
RADIUM-226	PCI/L										1.0000	.5	UJ	2.8000	.7	-
URANIUM-235/236	PCI/L				1.0000		R				0.2000	.2	UJ	1.0000		U
THORIUM-232	PCI/L										0.2000	.5	UJ	1.0000		UJ
THORIUM, TOTAL	UG/L										0.9120	.5	NV	6.0000		UJ
RADIUM-228	PCI/L										3.0000	1.3	UJ	3.0000		U
THORIUM-228	PCI/L				1.0000		R				0.2000	.4	U	1.0000		UJ
NEPTUNIUM-237	PCI/L													1.0000		UJ
PLUTONIUM-239/240	PCI/L													1.0000		U
PLUTONIUM-238	PCI/L													1.0000		U
STRONTIUM-90	PCI/L													5.0000		R
TECHNETIUM-99	PCI/L				30.0000		R				15.0000	7.9	U	30.0000		U
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
GROSS ALPHA	PCI/L										390.0000		UNV			
GROSS BETA	PCI/L										470.0000		UNV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L	5.0000		U				2.5000		UNV	10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L							2.5000		UNV	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			

000803

SAMPLE NUMBER:	066430			066662			066663			GW930707-4			003494		
LAB:										TCT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-BUTANONE	UG/L										10.0000		UJ			
2-HEXANONE	UG/L										10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L										10.0000		UJ			
ACETONE	UG/L	10.0000		U				2.5000		UNV	6.0000		J			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L	8.0000		U				2.5000		UNV	10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L	5.0000		U				2.5000		UNV	10.0000		U			
TOLUENE	UG/L	5.0000		U				2.5000		UNV	10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L	5.0000		U				2.5000		UNV	10.0000		U			
VINYL ACETATE	UG/L										10.0000		UJ			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003738			003933			066427			066557			066596
TASK:		3.2.4			3.2.4			9.25			9.25			9.25
LAB:		IT			IT			IT			IT			IT
WELL OR BORING NUMBER:		1031			1031			1031			1031			1031
DEPTH:		-			-			-			-			-
DATE COLLECTED:		04-DEC-88			02-APR-89			19-JUN-89			08-SEP-89			08-SEP-89
NORTH COORDINATE:		481167.08			481167.08			481167.08			481167.08			481167.08
EAST COORDINATE:		1378136.61			1378136.61			1378136.61			1378136.61			1378136.61
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			DL-UNF			NONE-UNF			DL-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L													10000.0000		UR
GENERAL CHEMISTRY																
AMMONIA	MG/L	167.0000		-	121.1000		-									
CHLORIDE	MG/L	1120.0000		R	889.7000		-	1060.0000		-	1150.0000		-			
FLUORIDE	MG/L	1.5000		-	1.5300		-	1.7000		-	1.6000		-			
NITRATE	MG/L	25.8000		-	41.4000		J	45.7000		J	33.1000		J			
PHENOLS	MG/L	0.0420		-	0.0200		-									
PHOSPHORUS	MG/L	0.3150		-	0.3630		J									
SULFATE	MG/L	113.0000		-	141.8000		J	267.0000		-	144.0000		-			
SULFIDE	MG/L										0.5000		UJ	0.5000		UJ
TOTAL KJELDAHL NITROGEN	MG/L	146.0000		-	115.0000		-									
TOTAL ORGANIC CARBON	MG/L							15.8000		-	11.1000		-			
TOTAL ORGANIC HALIDES	MG/L	0.6700		-	0.8960		-	0.7400		J	0.1320		J			
HERBICIDES																
2,4,5-T	UG/L													5.0000		UJ
2,4,5-TP (SILVEX)	UG/L													0.0250		UJ
2,4-D	UG/L													0.0500		UJ
INORGANICS																
ALUMINUM	MG/L							0.2260		-				0.2150		-
ANTIMONY	MG/L													0.0300		U
ARSENIC	MG/L	0.0030		R	0.0020		U							0.0020		UJ
BARIUM	MG/L	0.1050		-	0.1160		-	0.8110		-				0.0878		-
BERYLLIUM	MG/L							0.0019		-				0.0013		U
CADMIUM	MG/L	0.0020		U	0.0029		-							0.0020		U

000805

SAMPLE NUMBER:		003738		003933		066427		066557		066596	
LAB:		IT		IT						IT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		-		-		NONE-FIL	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
INORGANICS											
CALCIUM	MG/L	322.0000	-	234.0000	-	313.0000	-			315.0000	-
CHROMIUM	MG/L	0.0200	U	0.0215	-	0.0364	-			0.0289	-
COBALT	MG/L					0.0121	-			0.0100	U
COPPER	MG/L	0.0200	-	0.0238	-	0.0100	U			0.0100	U
CYANIDE	MG/L									0.0794	-
IRON	MG/L	0.0150	J	0.1180	-	0.6010	-			0.1020	-
LEAD	MG/L	0.0020	UJ	0.0020	U	0.0020	U			0.0061	J
MAGNESIUM	MG/L	7.6200	-	25.4000	-	5.6800	-			8.5400	-
MANGANESE	MG/L	0.0110	-	0.0263	-					0.0141	-
MERCURY	MG/L	0.0002	J	0.0005	J					0.0002	U
MOLYBDENUM	MG/L	0.6780	J	0.5360	-						
NICKEL	MG/L	0.0300	-	0.0489	-	0.0392	-			0.0278	-
OSMIUM	MG/L									0.1280	UR
POTASSIUM	MG/L	133.0000	-	98.2000	J					455.0000	-
SELENIUM	MG/L	0.0040	R	0.0020	R					0.0026	J
SILVER	MG/L	0.0200	U	0.0005	U	0.0131	-			0.0100	U
SODIUM	MG/L	224.0000	-	202.0000	-					223.0000	-
THALLIUM	MG/L									0.0010	UJ
TIN	MG/L									0.0300	UR
VANADIUM	MG/L					0.0332	-			0.0312	-
ZINC	MG/L					0.0048	U			0.0299	-
MISC											
1,2,3-TRICHLOROPROPANE	UG/L									50.0000	UR
1,2,4,5-TETRACHLOROBENZENE	UG/L									10.0000	UR
1,2-DIBROMO-3-CHLOROPROPANE	UG/L									100.0000	UR
1,2-DIBROMOETHANE	UG/L									50.0000	UR
1,3,5-TRINITROBENZENE	UG/L									10.0000	U
1,3-DINITROBENZENE	UG/L									10.0000	U
1,4-NAPHTHOQUINONE	UG/L									10.0000	U
1-NAPHTHYLAMINE	UG/L									120.0000	UJ
2,3,4,6-TETRACHLOROPHENOL	UG/L									4.0000	R
2,6-DICHLOROPHENOL	UG/L									10.0000	UR
2-ACETYLAMINOFLUORENE	UG/L									10.0000	U
2-CHLORO-1,3-BUTADIENE	UG/L									50.0000	U
2-NAPHTHYLAMINE	UG/L									170.0000	U
2-PICOLINE	UG/L									70.0000	U
3,3'-DIMETHYLBENZIDINE	UG/L									80.0000	U
3-CHLOROPROPENE	UG/L									5.0000	UR
3-METHYLCHOLANTHRENE	UG/L									30.0000	U
3-METHYLPHENOL	UG/L									10.0000	UR
4-AMINOBIPHENYL	UG/L									50.0000	UJ
4-NITROQUINOLINE-1-OXIDE	UG/L									10.0000	UJ
5-NITRO-O-TOLUIDINE	UG/L									20.0000	U

008006

5704

SAMPLE NUMBER:	003738			003933			066427			066557			066596		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
7,12-DIMETHYLBENZ(A)ANTHRACENE UG/L													20.0000		U
A,A-DIMETHYLPHENETHYLAMINE UG/L													10.0000		UJ
ACETONITRILE UG/L													200.0000		UJ
ACETOPHENONE UG/L													10.0000		U
ACROLEIN UG/L													10.0000		U
ACROLEIN UG/L													10.0000		U
ACRYLONITRILE UG/L													100.0000		UR
ANILINE UG/L													10.0000		U
ARAMITE UG/L													10.0000		U
DIALLATE UG/L													10.0000		U
DIBROMOMETHANE UG/L													100.0000		UR
DICHLORODIFLUOROMETHANE UG/L													200.0000		UR
DINOSEB UG/L													20.0000		U
DIPHENYLAMINE UG/L													10.0000		U
ETHYL CYANIDE UG/L													1000.0000		UR
ETHYL METHACRYLATE UG/L													10.0000		UJ
ETHYL METHANESULFONATE UG/L													10.0000		U
HEXACHLOROPHENE UG/L													500.0000		UR
HEXACHLOROPROPENE UG/L													20.0000		U
IODOMETHANE UG/L													50.0000		UR
ISODRIN UG/L													0.0500		U
ISOSAFROLE UG/L													10.0000		U
KEPONE UG/L													0.1000		U
METHACRYLONITRILE UG/L													10.0000		UR
METHAPYRILENE UG/L													40.0000		U
METHYL METHACRYLATE UG/L													100.0000		UR
METHYL METHANESULFONATE UG/L													10.0000		U
N-NITROSODI-N-BUTYLAMINE UG/L													20.0000		U
N-NITROSODIETHYLAMINE UG/L													4.0000		J
N-NITROSOMETHYLETHYLAMINE UG/L													10.0000		U
N-NITROSOMORPHOLINE UG/L													10.0000		U
N-NITROSOPIPERIDINE UG/L													10.0000		U
N-NITROSOPYRROLIDINE UG/L													10.0000		U
O-TOLUIDINE UG/L													10.0000		UJ
P-DIMETHYLAMINOAZOBENZENE UG/L													30.0000		U
P-PHENYLENEDIAMINE UG/L													50.0000		UJ
PENTACHLOROBENZENE UG/L													20.0000		U
PENTACHLOROETHANE UG/L													20.0000		U
PENTACHLORONITROBENZENE UG/L													20.0000		U
PHENACETIN UG/L													10.0000		U
PRONAMIDE UG/L													30.0000		U
SAFROLE UG/L													10.0000		U
TRANS-1,2-DICHLOROETHENE UG/L													18.0000		-
TRANS-1,4-DICHLORO-2-BUTENE UG/L													20.0000		UJ

008007

ORGANOPHOSPHORUS

DIMETHOATE UG/L 1.0000 UJ
06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003738			003933			066427			066557			066596		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS															
DISULFOTON UG/L													1.0000		UJ
FAMPHUR UG/L													1.0000		UJ
METHYL PARATHION UG/L													0.0500		UJ
PARATHION UG/L													0.0500		UJ
PHORATE UG/L													1.0000		UJ
THIONAZIN UG/L													1.0000		UJ
PESTICIDES															
4,4'-DDD UG/L													0.1000		U
4,4'-DDE UG/L													0.1000		U
4,4'-DDT UG/L													0.1000		U
ALDRIN UG/L													0.0500		U
ALPHA-BHC UG/L													0.0500		U
ALPHA-CHLORDANE UG/L													0.5000		U
AROCLOR-1016 UG/L													0.5000		U
AROCLOR-1221 UG/L													0.5000		U
AROCLOR-1232 UG/L													0.5000		U
AROCLOR-1242 UG/L													0.5000		U
AROCLOR-1248 UG/L													0.5000		U
AROCLOR-1254 UG/L													1.0000		U
AROCLOR-1260 UG/L													1.0000		U
BETA-BHC UG/L													0.0500		U
DELTA-BHC UG/L													0.0500		U
DIELDRIN UG/L													0.1000		U
ENDOSULFAN II UG/L													0.1000		U
ENDOSULFAN SULFATE UG/L													0.1000		U
ENDOSULFAN-I UG/L													0.0500		U
ENDRIN UG/L													0.1000		U
ENDRIN KETONE UG/L													0.1000		U
GAMMA-BHC (LINDANE) UG/L													0.0500		U
GAMMA-CHLORDANE UG/L													0.5000		U
HEPTACHLOR UG/L													0.0500		U
HEPTACHLOR EPOXIDE UG/L													0.0500		U
METHOXYCHLOR UG/L													0.5000		U
SULFOTEP UG/L													1.0000		UJ
TOXAPHENE UG/L													1.0000		U
RADIONUCLIDES															
URANIUM-238 PCI/L	12.8000	1.7	J	37.6000	4.9	-	7.3000	1	-	5.0000	.7	-			

SAMPLE NUMBER:		003738			003933			066427			066557			066596		
LAB:		IT			IT			IT			IT					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	33.00006		-	106.0000	18	-	25.0000	4	-	15.0000	2	-			
URANIUM-234	PCI/L	4.1000	.7	J	13.1000	1.9	-	3.0000	.5	-	1.6000	.3	-			
THORIUM-230	PCI/L	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U			
RADIUM-226	PCI/L	2.9000	.5	-	3.0000	.5	-									
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U			
THORIUM-232	PCI/L	1.0000		UJ	1.0000		U									
THORIUM, TOTAL	UG/L	9.0000		UJ	4.0000		U									
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ									
THORIUM-228	PCI/L	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U			
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		U									
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		U									
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		U									
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U									
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U	30.0000		U			
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R									
CESIUM-137	PCI/L	20.0000		R	20.0000		R									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		UR
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		UR
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		UR
2,4-DICHLOROPHENOL	UG/L													10.0000		UR
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		U
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		UR
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													12.0000		R
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L													6.0000		R
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		UR
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		UR
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													11.0000		R

000809

SAMPLE NUMBER:	003738			003933			066427			066557			066596		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
ACENAPHTHENE UG/L													10.0000		U
ACENAPHTHYLENE UG/L													10.0000		U
ANTHRACENE UG/L													10.0000		U
BENZO(A)ANTHRACENE UG/L													10.0000		U
BENZO(A)PYRENE UG/L													10.0000		U
BENZO(B)FLUORANTHENE UG/L													10.0000		U
BENZO(G,H,I)PERYLENE UG/L													10.0000		U
BENZO(K)FLUORANTHENE UG/L													10.0000		U
BENZYL ALCOHOL UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		U
BUTYL BENZYL PHTHALATE UG/L													10.0000		U
CHRYSENE UG/L													10.0000		U
DI-N-BUTYL PHTHALATE UG/L													10.0000		U
DI-N-OCTYL PHTHALATE UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		U
DIBENZOFURAN UG/L													10.0000		U
DIETHYL PHTHALATE UG/L													10.0000		U
DIMETHYL PHTHALATE UG/L													10.0000		U
FLUORANTHENE UG/L													10.0000		U
FLUORENE UG/L													10.0000		U
HEXACHLOROBENZENE UG/L													10.0000		U
HEXACHLOROBUTADIENE UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		U
HEXACHLOROETHANE UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		U
ISOPHORONE UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		U
N-NITROSODIMETHYLAMINE UG/L													10.0000		U
N-NITROSODIPHENYLAMINE UG/L													3.0000		J
NAPHTHALENE UG/L													2.0000		J
NITROBENZENE UG/L													10.0000		U
O,O,O-TRIETHYLPHOSPHOROTHIOATE UG/L													10.0000		U
P-CHLOROANILINE UG/L													10.0000		UJ
PENTACHLOROPHENOL UG/L													3.0000		R
PHENANTHRENE UG/L													10.0000		U
PHENOL MG/L													10.0000		U
PYRENE UG/L													10.0000		U
PYRIDINE UG/L													500000.000		UR
VOLATILES															
1,1,1,2-TETRACHLOROETHANE UG/L													50.0000		UR

000810

5704

SAMPLE NUMBER:	003738			003933		066427			066557			066596		
LAB:												IT		
SUFFIX/FILTERFLAG:	-			-		-			-			DL-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES														
1,1,1-TRICHLOROETHANE UG/L												50.0000		UR
1,1,2,2-TETRACHLOROETHANE UG/L												50.0000		UR
1,1,2-TRICHLOROETHANE UG/L												50.0000		UR
1,1-DICHLOROETHANE UG/L						31.0000		-				26.0000		R
1,1-DICHLOROETHENE UG/L												50.0000		UR
1,2-DICHLOROETHANE UG/L												50.0000		UR
1,2-DICHLOROETHENE (TOTAL) UG/L												120.0000		-
1,2-DICHLOROPROPANE UG/L												5.0000		U
2-BUTANONE UG/L												3.0000		U
2-HEXANONE UG/L												100.0000		UR
4-METHYL-2-PENTANONE UG/L												6.0000		J
ACETONE UG/L						42.0000		U				29.0000		R
BENZENE UG/L												50.0000		UR
BROMODICHLOROMETHANE UG/L												50.0000		UR
BROMOFORM UG/L												5.0000		U
BROMOMETHANE UG/L												100.0000		UR
CARBON DISULFIDE UG/L												5.0000		U
CARBON TETRACHLORIDE UG/L												50.0000		UR
CHLOROBENZENE UG/L												5.0000		UJ
CHLOROETHANE UG/L												100.0000		UR
CHLOROFORM UG/L												2.0000		J
CHLOROMETHANE UG/L												100.0000		UR
CIS-1,3-DICHLOROPROPENE UG/L												5.0000		U
DIBROMOCHLOROMETHANE UG/L												5.0000		U
ETHYLBENZENE UG/L												5.0000		UJ
ISOBUTYL ALCOHOL UG/L												30000.0000		UR
METHYLENE CHLORIDE UG/L						38.0000		U				6.0000		U
STYRENE UG/L												5.0000		UJ
TETRACHLOROETHENE UG/L						260.0000		-				290.0000		-
TOLUENE UG/L						25.0000		UJ				50.0000		UR
TRANS-1,3-DICHLOROPROPENE UG/L												50.0000		UR
TRICHLOROETHENE UG/L						540.0000		-				520.0000		R
TRICHLOROFLUOROMETHANE UG/L												5.0000		U
VINYL ACETATE UG/L												10.0000		U
VINYL CHLORIDE UG/L												100.0000		UR
XYLENES, TOTAL UG/L												2.0000		J

000811

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		066664			066665			099073			099075			EMGW_SYSGEN_72		
TASK:		9.27			9.27			50.03.07			50.03.07			GWMON		
LAB:		IT			WMCO			IT/MWL			FERMCO			NET		
WELL OR BORING NUMBER:		1031			1031			1031			1031			1031		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		21-NOV-89			21-NOV-89			13-NOV-92			13-NOV-92			18-FEB-90		
NORTH COORDINATE:		481167.08			481167.08			481167.08			481167.08			481167.08		
EAST COORDINATE:		1378136.61			1378136.61			1378136.61			1378136.61			1378136.61		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L				1100.0000		NV							1100.0000		NV
FLUORIDE	MG/L				1.1800		NV							1.2400		NV
NITRATE	MG/L				25.4000		NV									
NITRATE, AS NITROGEN	MG/L													30.1000		NV
PHENOLS	MG/L				0.0120		NV							0.0120		NV
SULFATE	MG/L				173.0000		NV							146.0000		NV
TOTAL ORGANIC CARBON	MG/L				9.0000		NV							11.0000		NV
TOTAL ORGANIC HALIDES	MG/L				0.7520		NV									
TOTAL ORGANIC HALOGENS	MG/L													0.7130		NV
INORGANICS																
ALUMINUM	MG/L				1.5000		NV	0.0300		U				0.5410		NV
ANTIMONY	MG/L							0.0050		U						
ARSENIC	MG/L				0.0025		UNV	0.0025		U				0.0025		UNV
BARIUM	MG/L				0.3620		NV	0.0740		-				0.4970		NV
BERYLLIUM	MG/L				0.0100		UNV	0.0020		U				0.0100		UNV
CADMIUM	MG/L							0.0050		U						
CALCIUM	MG/L				331.0000		NV	226.0000		-				348.0000		NV
CHROMIUM	MG/L				3.4800		NV	0.0100		U				0.0050		UNV
COBALT	MG/L				0.0250		UNV	0.0100		U				0.0250		UNV
COPPER	MG/L				0.0760		NV	0.0100		U				0.0270		NV
CYANIDE	MG/L							0.0303		-						
IRON	MG/L				12.5000		NV	0.0200		U				1.2500		NV
LEAD	MG/L				0.0050		UNV	0.0025		UJ				0.0050		UNV
MAGNESIUM	MG/L				4.9000		NV	17.4000		-				3.0000		NV
MANGANESE	MG/L				0.6250		NV	0.0128		-				0.0200		UNV
MERCURY	MG/L							0.0002		U						
MOLYBDENUM	MG/L							1.0100		-						
NICKEL	MG/L				1.6100		NV	0.0312		-				0.1600		NV

000812

5704

SAMPLE NUMBER:	066664	066665	099073	099075	EMGW_SYSGEN_72
LAB:		WMCO	IT/MWL		NET
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-FIL	-	NONE-UNF

		066664 RESULT	066664 SIGMA	066664 VAL QUAL(1)	066665 RESULT	066665 SIGMA	066665 VAL QUAL(1)	099073 RESULT	099073 SIGMA	099073 VAL QUAL(1)	099075 RESULT	099075 SIGMA	099075 VAL QUAL(1)	EMGW_SYSGEN_72 RESULT	EMGW_SYSGEN_72 SIGMA	EMGW_SYSGEN_72 VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L							97.0000		-						
SELENIUM	MG/L							0.0058		-						
SILICON	MG/L							3.3700		-						
SILVER	MG/L				0.0010		UNV	0.0100		U				0.0010		UNV
SODIUM	MG/L				533.0000		NV	191.0000		-				384.0000		NV
THALLIUM	MG/L							0.0100		UJ						
VANADIUM	MG/L				0.0500		UNV	0.0100		U				0.0500		UNV
ZINC	MG/L				0.0200		UNV	0.0050		U				0.0200		UNV
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U						
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		U						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		U						
ALPHA-CHLORDANE	UG/L							0.5000		U						
AROCLOR-1016	UG/L							0.5000		U						
AROCLOR-1221	UG/L							0.5000		U						
AROCLOR-1232	UG/L							0.5000		U						
AROCLOR-1242	UG/L							0.5000		U						
AROCLOR-1248	UG/L							0.5000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		U						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		U						
GAMMA-CHLORDANE	UG/L							0.5000		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							1.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L	12.8000	1.8	R												
URANIUM, TOTAL	UG/L	28.0000	5	R							8.2000		NV			
URANIUM-234	PCI/L	4.7300	.8	R												
THORIUM-230	PCI/L	1.0000		R												

000813

SAMPLE NUMBER:		066664			066665			099073			099075			EMGW_SYSGEN_72		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L	1.0000		R												
THORIUM-228	PCI/L	1.0000		R												
TECHNETIUM-99	PCI/L	30.0000		R												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		UR						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		UR						
2,4-DICHLOROPHENOL	UG/L							10.0000		UR						
2,4-DIMETHYLPHENOL	UG/L							10.0000		UR						
2,4-DINITROPHENOL	UG/L							50.0000		UR						
2,4-DINITROTOLUENE	UG/L							10.0000		UJ						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		UR						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		UR						
2-NITROANILINE	UG/L							50.0000		U						
2-NITROPHENOL	UG/L							10.0000		UR						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		U						
3-NITROANILINE	UG/L							50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							50.0000		UR						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		UR						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		UR						
4-NITROANILINE	UG/L							50.0000		U						
4-NITROPHENOL	UG/L							3.0000		J						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BENZOIC ACID	UG/L							50.0000		UR						
BENZYL ALCOHOL	UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		UJ						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		UJ						

SAMPLE NUMBER:		066664			066665			099073			099075			EMGW_SYSGEN_72		
LAB:								IT/MWL								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							3.0000		J						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		UJ						
HEXACHLOROETHANE	UG/L							10.0000		UJ						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		UJ						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L							7.0000		J						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		UR						
PYRENE	UG/L							10.0000		U						
TRIBUTYL PHOSPHATE	UG/L							320.0000		-						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							3.0000		J						
1,1,2,2-TETRACHLOROETHANE	UG/L							5.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							5.0000		U						
1,1-DICHLOROETHANE	UG/L				45.0000		NV	21.0000		-				37.2000		NV
1,1-DICHLOROETHENE	UG/L							5.0000		-						
1,2-DICHLOROETHANE	UG/L				12.5000		UNV	5.0000		U				2.6000		NV
1,2-DICHLOROETHENE (TOTAL)	UG/L							46.0000		-						
1,2-DICHLOROPROPANE	UG/L							5.0000		U						
2-BUTANONE	UG/L							5.0000		J						
2-HEXANONE	UG/L							10.0000		UJ						
4-METHYL-2-PENTANONE	UG/L							7.0000		J						
ACETONE	UG/L				12.5000		UNV	33.0000		UJ				78.0000		NV
BENZENE	UG/L							2.0000		J						
BROMODICHLOROMETHANE	UG/L							5.0000		U						
BROMOFORM	UG/L							5.0000		U						

000815

SAMPLE NUMBER:	066664			066665			099073			099075			EMGW_SYSGEN_72		
LAB:							IT/MWL								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOMETHANE UG/L							10.0000		U						
CARBON DISULFIDE UG/L							5.0000		U						
CARBON TETRACHLORIDE UG/L							5.0000		U						
CHLOROBENZENE UG/L							5.0000		U						
CHLOROETHANE UG/L							10.0000		U						
CHLOROFORM UG/L							2.0000		U						
CHLOROMETHANE UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE UG/L							5.0000		U						
DIBROMOCHLOROMETHANE UG/L							5.0000		U						
ETHYLBENZENE UG/L							5.0000		U						
METHYLENE CHLORIDE UG/L				12.5000		UNV	14.0000		UJ				5.0000		NV
STYRENE UG/L							5.0000		U						
TETRACHLOROETHENE UG/L				248.0000		NV	160.0000		-				126.0000		NV
TOLUENE UG/L				12.5000		UNV	5.0000		U				1.5000		NV
TRANS-1,3-DICHLOROPROPENE UG/L							5.0000		U						
TRICHLOROETHENE UG/L				527.0000		NV	290.0000		-				214.0000		NV
VINYL ACETATE UG/L							10.0000		UJ						
VINYL CHLORIDE UG/L							9.0000		J						
XYLENES, TOTAL UG/L							2.0000		J						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_73			EMGW_SYSGEN_74			EMGW_SYSGEN_75			EMGW_SYSGEN_76			EMGW_SYSGEN_76D		
TASK:		GWMON			GWMON			GWMON			GWMON			GWMON		
LAB:		IT			IT			NET			NET			NET		
WELL OR BORING NUMBER:		1031			1031			1031			1031			1031		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		20-FEB-90			03-MAY-90			04-MAY-90			22-AUG-90			22-AUG-90		
NORTH COORDINATE:		481167.08			481167.08			481167.08			481167.08			481167.08		
EAST COORDINATE:		1378136.61			1378136.61			1378136.61			1378136.61			1378136.61		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			DUPLICATE		
QC OF:														EMGW_SYSGEN_76		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L							970.0000		NV	892.0000		NV	945.0000		NV
FLUORIDE	MG/L							1.7200		NV	1.5600		NV	1.6200		NV
NITRATE, AS NITROGEN	MG/L							26.9000		NV	12.5000		NV	20.3000		NV
PHENOLS	MG/L							0.0050		UNV	0.0140		NV	0.0050		UNV
SULFATE	MG/L							213.0000		NV	224.0000		NV	243.0000		NV
TOTAL ORGANIC CARBON	MG/L							11.0000		NV	9.0000		NV	8.0000		NV
TOTAL ORGANIC HALOGENS	MG/L							0.3870		NV	0.7060		NV	0.8470		NV
INORGANICS																
ALUMINUM	MG/L							2.1800		NV	0.5000		UNV	0.5000		UNV
ANTIMONY	MG/L							0.0250		UNV	0.0250		UNV	0.0250		UNV
ARSENIC	MG/L							0.0040		NV	0.0025		UNV	0.0025		UNV
BARIUM	MG/L							0.2000		UNV	0.2290		NV	0.2000		UNV
BERYLLIUM	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L							0.0010		UNV	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L							267.0000		NV	282.0000		NV	262.0000		NV
CHROMIUM	MG/L							0.0080		NV	0.1540		NV	0.1530		NV
COBALT	MG/L							0.0250		UNV	0.0250		UNV	0.0250		UNV
COPPER	MG/L							0.0250		UNV	0.0250		UNV	0.0250		UNV
CYANIDE	MG/L							0.0050		UNV						
IRON	MG/L							6.1500		NV	1.9700		NV	0.0500		UNV
LEAD	MG/L							0.0050		UNV	0.0050		UNV	0.0050		UNV
MAGNESIUM	MG/L							9.3000		NV	5.2000		NV	5.6000		NV
MANGANESE	MG/L							0.2100		NV	0.0200		UNV	0.0200		UNV
MERCURY	MG/L							0.0002		UNV	0.0002		UNV	0.0040		NV
MOLYBDENUM	MG/L							0.6750		NV	1.2700		NV	1.2300		NV
NICKEL	MG/L							0.2570		NV	0.1320		NV	0.0130		NV
POTASSIUM	MG/L							110.0000		NV	153.0000		NV	151.0000		NV
SELENIUM	MG/L							0.0040		NV	0.0025		UNV	0.0025		UNV

000817

SAMPLE NUMBER:	EMGW_SYSGEN_73			EMGW_SYSGEN_74			EMGW_SYSGEN_75			EMGW_SYSGEN_76			EMGW_SYSGEN_76D		
LAB:							NET			NET			NET		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L							0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L							191.0000		NV	249.0000		NV	222.0000		NV
THALLIUM	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV
VANADIUM	MG/L							0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC	MG/L							0.0200		UNV	0.0200		UNV	0.0200		UNV
MISC																
3-METHYLPHENOL	UG/L							5.3000		UNV						
DIPHENYLAMINE	UG/L							20.0000		UNV						
PESTICIDES																
4,4'-DDD	UG/L							0.2000		UNV						
4,4'-DDE	UG/L							0.2000		UNV						
4,4'-DDT	UG/L							0.2000		UNV						
ALDRIN	UG/L							0.2000		UNV						
ALPHA-BHC	UG/L							0.2000		UNV						
AROCLOR-1016	UG/L							0.2000		UNV						
AROCLOR-1221	UG/L							0.2000		UNV						
AROCLOR-1232	UG/L							0.2000		UNV						
AROCLOR-1242	UG/L							0.2000		UNV						
AROCLOR-1248	UG/L							0.2000		UNV						
AROCLOR-1254	UG/L							0.2000		UNV						
AROCLOR-1260	UG/L							0.2000		UNV						
BETA-BHC	UG/L							0.2000		UNV						
CHLORDANE	UG/L							0.2000		UNV						
DELTA-BHC	UG/L							0.2000		UNV						
DIELDRIN	UG/L							0.2000		UNV						
ENDOSULFAN II	UG/L							0.2000		UNV						
ENDOSULFAN SULFATE	UG/L							0.2000		UNV						
ENDOSULFAN-I	UG/L							0.2000		UNV						
ENDRIN	UG/L							0.0800		UNV						
ENDRIN ALDEHYDE	UG/L							0.2000		UNV						
GAMMA-BHC (LINDANE)	UG/L							0.2000		UNV						
HEPTACHLOR	UG/L							0.2000		UNV						
HEPTACHLOR EPOXIDE	UG/L							0.2000		UNV						
TOXAPHENE	UG/L							0.5000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L	3.3000		NV	2.8200		NV				5.5600		NV	7.4400		NV
URANIUM, TOTAL	UG/L	9.9000		NV	8.4000		NV				16.7000		NV	22.4000		NV
URANIUM-234	PCI/L	2.2000		NV	0.8400		UNV				2.1100		NV	2.8200		NV
THORIUM-230	PCI/L				0.4100		UNV				0.5000		UNV	0.6700		UNV

000818

S704

SAMPLE NUMBER:		EMGW_SYSGEN_73			EMGW_SYSGEN_74			EMGW_SYSGEN_75			EMGW_SYSGEN_76			EMGW_SYSGEN_76D		
LAB:					IT						IT			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L				3.9500		NV				1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L				0.2700		UNV				0.4600		NV	0.6670		NV
THORIUM-232	PCI/L				0.3200		UNV				0.5000		UNV	0.6700		UNV
THORIUM, TOTAL	UG/L				7.8000		UNV				4.6000		UNV	6.0000		UNV
RADIUM-228	PCI/L				3.0000		UNV				3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L				0.6420		NV				0.7900		NV	0.6700		UNV
NEPTUNIUM-237	PCI/L				0.5000		UNV									
PLUTONIUM-239/240	PCI/L				0.5000		UNV									
PLUTONIUM-238	PCI/L				0.5000		UNV									
STRONTIUM-90	PCI/L				1.0000		UNV									
TECHNETIUM-99	PCI/L	15.0000		UNV	18.0000		UNV									
RUTHENIUM-106	PCI/L				150.0000		UNV									
CESIUM-137	PCI/L				12.0000		UNV									
GROSS ALPHA	PCI/L				31.4000		NV				330.0000		NV	29.6000		NV
GROSS BETA	PCI/L				21.0000		UNV				538.0000		NV	114.0000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							5.3000		UNV						
1,3-DICHLOROBENZENE	UG/L							5.3000		UNV						
1,4-DICHLOROBENZENE	UG/L							5.3000		UNV						
2,4,5-TRICHLOROPHENOL	UG/L							5.3000		UNV						
2,4,6-TRICHLOROPHENOL	UG/L							5.3000		UNV						
2,4-DICHLOROPHENOL	UG/L							5.3000		UNV						
2,4-DIMETHYLPHENOL	UG/L							5.3000		UNV						
2,4-DINITROPHENOL	UG/L							5.3000		UNV						
2,4-DINITROTOLUENE	UG/L							20.0000		UNV						
2,6-DINITROTOLUENE	UG/L							20.0000		UNV						
2-CHLORONAPHTHALENE	UG/L							5.2000		UNV						
2-CHLOROPHENOL	UG/L							5.3000		UNV						
2-METHYLPHENOL	UG/L							5.3000		UNV						
2-NITROANILINE	UG/L							20.0000		UNV						
2-NITROPHENOL	UG/L							5.3000		UNV						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		UNV						
3-NITROANILINE	UG/L							20.0000		UNV						
4,6-DINITRO-2-METHYLPHENOL	UG/L							5.3000		UNV						
4-BROMOPHENYL PHENYL ETHER	UG/L							20.0000		UNV						
4-CHLORO-3-METHYLPHENOL	UG/L							5.3000		UNV						
4-CHLOROPHENYLPHENYL ETHER	UG/L							20.0000		UNV						
4-NITROANILINE	UG/L							20.0000		UNV						
4-NITROPHENOL	UG/L							5.3000		UNV						
ACENAPHTHYLENE	UG/L							5.3000		UNV						
ANTHRACENE	UG/L							5.3000		UNV						
BENZO(A)ANTHRACENE	UG/L							5.3000		UNV						
BENZO(A)PYRENE	UG/L							5.3000		UNV						

SAMPLE NUMBER:		EMGW_SYSGEN_73			EMGW_SYSGEN_74			EMGW_SYSGEN_75			EMGW_SYSGEN_76			EMGW_SYSGEN_76D		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(B)FLUORANTHENE	UG/L							5.3000		UNV						
BENZO(G,H,I)PERYLENE	UG/L							5.3000		UNV						
BENZO(K)FLUORANTHENE	UG/L							5.3000		UNV						
BENZOIC ACID	UG/L							5.3000		UNV						
BENZYL ALCOHOL	UG/L							53.0000		UNV						
BIS(2-CHLOROETHOXY)METHANE	UG/L							20.0000		UNV						
BIS(2-CHLOROETHYL)ETHER	UG/L							20.0000		UNV						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							20.0000		UNV						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							5.3000		UNV						
BUTYL BENZYL PHTHALATE	UG/L							5.3000		UNV						
CHRYSENE	UG/L							5.3000		UNV						
DI-N-BUTYL PHTHALATE	UG/L							5.3000		UNV						
DIBENZO(A,H)ANTHRACENE	UG/L							5.3000		UNV						
DIBENZOFURAN	UG/L							5.3000		UNV						
DIETHYL PHTHALATE	UG/L							5.3000		UNV						
DIMETHYL PHTHALATE	UG/L							5.3000		UNV						
FLUORANTHENE	UG/L							5.3000		UNV						
FLUORENE	UG/L							5.3000		UNV						
HEXACHLOROBENZENE	UG/L							5.3000		UNV						
HEXACHLOROBUTADIENE	UG/L							5.3000		UNV						
HEXACHLOROCYCLOPENTADIENE	UG/L							5.3000		UNV						
HEXACHLOROETHANE	UG/L							5.3000		UNV						
INDENO(1,2,3-CD)PYRENE	UG/L							5.3000		UNV						
ISOPHORONE	UG/L							5.3000		UNV						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							5.3000		UNV						
N-NITROSODIPHENYLAMINE	UG/L							5.3000		UNV						
NAPHTHALENE	UG/L							5.3000		UNV						
NITROBENZENE	UG/L							5.3000		UNV						
P-CHLOROANILINE	UG/L							5.3000		UNV						
PENTACHLOROPHENOL	UG/L							5.3000		UNV						
PHENANTHRENE	UG/L							5.3000		UNV						
PHENOL	MG/L							5.3000		UNV						
PYRENE	UG/L							5.3000		UNV						
PYRIDINE	UG/L							5.3000		UNV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.7000		NV	5.0000		UNV	2.5000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
1,1-DICHLOROETHANE	UG/L							21.4000		NV	24.0000		NV	21.0000		NV
1,1-DICHLOROETHENE	UG/L							5.6000		NV	5.0000		UNV	2.5000		UNV
1,2-DICHLOROETHANE	UG/L							1.8000		NV	5.0000		UNV	2.5000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L							77.7000		NV	56.0000		NV	8.5000		NV
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV

000820

5704

SAMPLE NUMBER:	EMGW_SYSGEN_73			EMGW_SYSGEN_74			EMGW_SYSGEN_75			EMGW_SYSGEN_76			EMGW_SYSGEN_76D		
LAB:							NET			NET			NET		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
2-BUTANONE UG/L							2.0000		UNV	10.0000		UNV	5.0000		UNV
2-HEXANONE UG/L							2.0000		UNV	10.0000		UNV	5.0000		UNV
4-METHYL-2-PENTANONE UG/L							5.9000		NV	10.0000		UNV	5.0000		UNV
ACETONE UG/L							30.7000		NV	10.0000		UNV	5.0000		UNV
BENZENE UG/L							2.6000		NV	5.0000		UNV	2.5000		UNV
BROMODICHLOROMETHANE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
BROMOFORM UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
BROMOMETHANE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
CARBON DISULFIDE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
CARBON TETRACHLORIDE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
CHLOROBENZENE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
CHLOROFORM UG/L							1.6000		NV	5.0000		UNV	2.5000		UNV
CHLOROMETHANE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
CIS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
DIBROMOCHLOROMETHANE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
ETHYLBENZENE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
METHYLENE CHLORIDE UG/L							5.0000		NV	5.0000		UNV	2.5000		UNV
STYRENE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
TETRACHLOROETHENE UG/L							150.0000		NV	186.0000		NV	183.0000		NV
TOLUENE UG/L							1.1000		NV	5.0000		UNV	2.5000		UNV
TRANS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV
TRICHLOROETHENE UG/L							137.0000		NV	334.0000		NV	317.0000		NV
VINYL ACETATE UG/L							2.0000		UNV	10.0000		UNV	5.0000		UNV
VINYL CHLORIDE UG/L							7.0000		NV	5.0000		UNV	2.5000		UNV
XYLENES, TOTAL UG/L							1.0000		UNV	5.0000		UNV	2.5000		UNV

000821

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_77			EMGW_SYSGEN_78			EMGW_SYSGEN_80			EMGW_SYSGEN_81			EMGW_SYSGEN_83		
TASK:		GWMON			GWMON			GWMON			GWMON			GWMON		
LAB:		NET			NET			NET			NET			WMCO		
WELL OR BORING NUMBER:		1031			1031			1031			1031			1031		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		16-NOV-90			12-FEB-91			30-JUL-91			23-OCT-91			21-APR-92		
NORTH COORDINATE:		481167.08			481167.08			481167.08			481167.08			481167.08		
EAST COORDINATE:		1378136.61			1378136.61			1378136.61			1378136.61			1378136.61		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L	5000.0000		UNV												
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	145.0000		NV	83.0000		NV	185.0000		NV	149.0000		NV			
ALLYL CHLORIDE	UG/L	100.0000		UNV												
AMMONIA	MG/L	112.0000		NV	133.0000		NV	135.0000		NV	127.0000		NV			
CHLORIDE	MG/L	755.0000		NV	906.0000		NV	882.0000		NV	882.0000		NV			
FLUORIDE	MG/L	1.1200		NV	1.4300		NV	2.0400		NV	1.7600		NV			
NITRATE, AS NITROGEN	MG/L				10.6000		NV	5.8000		NV	0.0200		UNV			
NITRATE/NITRITE	MG/L	30.6000		NV												
PH	STD	8.8100		NV	9.1500		NV	9.2400		NV	9.1600		NV			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV			
PHOSPHORUS	MG/L	0.2400		NV	0.1600		NV	0.1800		NV	0.1900		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM	2250.0000		NV	3550.0000		NV	3470.0000		NV	3490.0000		NV			
SULFATE	MG/L	221.0000		NV	455.0000		NV	294.0000		NV	303.0000		NV			
SULFIDE	MG/L	0.8000		UNV												
TOTAL DISSOLVED SOLIDS	MG/L	2540.0000		NV	1830.0000		NV	1800.0000		NV	2380.0000		NV			
TOTAL ORGANIC CARBON	MG/L	8.0000		NV	9.0000		NV	9.0000		NV	9.0000		NV			
TOTAL ORGANIC HALOGENS	MG/L	0.8680		NV	0.4770		NV	0.8880		NV	0.5600		NV			
HERBICIDES																
2,4,5-T	UG/L	25.0000		UNV												
2,4,5-TP (SILVEX)	UG/L	25.0000		UNV												
2,4-D	UG/L	50.0000		UNV												
INORGANICS																
ALUMINUM	MG/L	0.5000		UNV	0.5000		UNV	0.2000		UNV	0.2000		UNV			

000822

5704

SAMPLE NUMBER:		EMGW_SYSGEN_77		EMGW_SYSGEN_78		EMGW_SYSGEN_80		EMGW_SYSGEN_81		EMGW_SYSGEN_83	
LAB:		NET		NET		NET		NET			
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-FIL		NONE-UNF		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
ANTIMONY	MG/L	0.0250	UNV	0.0250	UNV	0.0200	UNV	0.0200	UNV		
ARSENIC	MG/L	0.0025	UNV	0.0025	UNV	0.0050	UNV	0.0050	UNV		
BARIUM	MG/L	0.2000	UNV	0.4000	UNV	0.3000	NV	0.2000	UNV		
BERYLLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0500	UNV	0.0050	UNV		
CADMIUM	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV		
CALCIUM	MG/L	179.0000	NV	217.0000	NV	81.0000	NV	240.0000	NV		
CHROMIUM	MG/L	0.0050	UNV	0.6770	NV	0.0020	UNV	0.0032	NV		
COBALT	MG/L	0.0250	UNV	0.0250	UNV	0.0050	UNV	0.0086	NV		
COPPER	MG/L	0.0250	UNV	0.0250	UNV	0.0210	NV	0.0200	UNV		
CYANIDE	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0050	UNV		
IRON	MG/L	0.0500	UNV	3.6700	NV	0.1000	UNV	0.1400	NV		
LEAD	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0030	UNV		
MAGNESIUM	MG/L	7.0000	NV	8.6000	NV	10.0000	NV	13.0000	NV		
MANGANESE	MG/L	0.0790	NV	0.0700	NV	0.0150	UNV	0.0150	UNV		
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV		
MOLYBDENUM	MG/L	708.0000	NV	0.6470	NV	0.0600	NV	1.4200	NV		
NICKEL	MG/L	0.0370	NV	0.4370	NV	0.0580	NV	0.2630	NV		
POTASSIUM	MG/L	108.0000	NV	13.4000	NV	112.0000	NV	96.0000	NV		
SELENIUM	MG/L	0.0040	NV	0.0025	UNV	0.0050	UNV	0.0050	UNV		
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV		
SODIUM	MG/L	121.0000	NV	245.0000	NV	201.0000	NV	167.0000	NV		
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV		
TIN	MG/L	1.0000	UNV								
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV		
ZINC	MG/L	0.0250	NV	0.0200	UNV	0.2590	NV	0.0200	UNV		
MISC											
1,2,3-TRICHLOROPROPANE	UG/L	5.0000	UNV								
1,2,4,5-TETRACHLOROBENZENE	UG/L	4.0000	UNV								
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	100.0000	UNV								
1,2-DIBROMOETHANE	UG/L	100.0000	UNV								
1,3,5-TRINITROBENZENE	UG/L	15.0000	UNV								
1,3-DINITROBENZENE	UG/L	15.0000	UNV								
1,4-NAPHTHOQUINONE	UG/L	15.0000	UNV								
1-NAPHTHYLAMINE	UG/L	15.0000	UNV								
2,3,4,6-TETRACHLOROPHENOL	UG/L	4.2000	NV								
2,6-DICHLOROPHENOL	UG/L	4.0000	UNV								
2-ACETYLAMINOFLUORENE	UG/L	15.0000	UNV								
2-CHLORO-1,3-BUTADIENE	UG/L	100.0000	UNV								
2-NAPHTHYLAMINE	UG/L	4.0000	UNV								
2-PICOLINE	UG/L	15.0000	UNV								
3,3'-DIMETHYLBENZIDINE	UG/L	15.0000	UNV								
3-METHYLCHOLANTHRENE	UG/L	15.0000	UNV								
3-METHYLPHENOL	UG/L	4.0000	UNV								

SAMPLE NUMBER:		EMGW_SYSGEN_77		EMGW_SYSGEN_78			EMGW_SYSGEN_80			EMGW_SYSGEN_81			EMGW_SYSGEN_83		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
4-AMINOBIPHENYL	UG/L	15.0000		UNV												
4-NITROQUINOLINE-1-OXIDE	UG/L	15.0000		UNV												
5-NITRO-O-TOLUIDINE	UG/L	15.0000		UNV												
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	15.0000		UNV												
A,A-DIMETHYLPHENETHYLAMINE	UG/L	15.0000		UNV												
ACETONITRILE	UG/L	1000.0000		UNV												
ACETOPHENONE	UG/L	15.0000		UNV												
ACROLEIN	UG/L	100.0000		UNV												
ACROLEIN	UG/L	100.0000		UNV												
ACRYLONITRILE	UG/L	100.0000		UNV												
ANILINE	UG/L	4.0000		UNV												
ARAMITE	UG/L	15.0000		UNV												
DIALLATE	UG/L	15.0000		UNV												
DIBROMOMETHANE	UG/L	5.0000		UNV												
DICHLORODIFLUOROMETHANE	UG/L	7.4000		NV												
DINOSEB	UG/L	25.0000		UNV												
DIPHENYLAMINE	UG/L	15.0000		UNV												
ETHYL CYANIDE	UG/L	100.0000		UNV												
ETHYL METHACRYLATE	UG/L	100.0000		UNV												
ETHYL METHANESULFONATE	UG/L	15.0000		UNV												
HEXACHLOROPHENE	UG/L	4.0000		UNV												
HEXACHLOROPROPENE	UG/L	4.0000		UNV												
IODOMETHANE	UG/L	100.0000		UNV												
ISODRIN	UG/L	4.0000		UNV												
ISOSAFROLE	UG/L	15.0000		UNV												
KEPONE	UG/L	4.0000		UNV												
METHACRYLONITRILE	UG/L	100.0000		UNV												
METHAPYRILENE	UG/L	15.0000		UNV												
METHYL METHACRYLATE	UG/L	100.0000		UNV												
METHYL METHANESULFONATE	UG/L	15.0000		UNV												
N-NITROSODI-N-BUTYLAMINE	UG/L	4.0000		UNV												
N-NITROSODIETHYLAMINE	UG/L	4.0000		UNV												
N-NITROSOMETHYLETHYLAMINE	UG/L	4.0000		UNV												
N-NITROSOMORPHOLINE	UG/L	15.0000		UNV												
N-NITROSOPIPERIDINE	UG/L	15.0000		UNV												
N-NITROSOPYRROLIDINE	UG/L	15.0000		UNV												
O-TOLUIDINE	UG/L	15.0000		UNV												
P-DIMETHYLAMINOAZOBENZENE	UG/L	15.0000		UNV												
P-PHENYLENEDIAMINE	UG/L	15.0000		UNV												
PENTACHLOROBENZENE	UG/L	4.0000		UNV												
PENTACHLOROETHANE	UG/L	100.0000		UNV												
PENTACHLORONITROBENZENE	UG/L	4.0000		UNV												
PHENACETIN	UG/L	4.0000		UNV												
PRONAMIDE	UG/L	15.0000		UNV												
SAFROLE	UG/L	15.0000		UNV												

000824

5704

SAMPLE NUMBER:		EMGW_SYSGEN_77		EMGW_SYSGEN_78		EMGW_SYSGEN_80		EMGW_SYSGEN_81		EMGW_SYSGEN_83	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
MISC											
TRANS-1,2-DICHLOROETHENE	UG/L	9.1000	NV	11.2000	NV	6.9000	NV	6.0000	NV		
ORGANOPHOSPHORUS											
DIMETHOATE	UG/L	15.0000	UNV								
DISULFOTON	UG/L	15.0000	UNV								
FAMPHUR	UG/L	15.0000	UNV								
METHYL PARATHION	UG/L	15.0000	UNV								
PARATHION	UG/L	15.0000	UNV								
PHORATE	UG/L	15.0000	UNV								
THIONAZIN	UG/L	15.0000	UNV								
PESTICIDES											
4,4'-DDD	UG/L	4.0000	UNV								
4,4'-DDE	UG/L	4.0000	UNV								
4,4'-DDT	UG/L	4.0000	UNV								
ALDRIN	UG/L	0.2000	UNV								
ALPHA-BHC	UG/L	0.2000	UNV								
AROCLOR-1016	UG/L	0.2000	UNV								
AROCLOR-1221	UG/L	0.2000	UNV								
AROCLOR-1232	UG/L	0.2000	UNV								
AROCLOR-1242	UG/L	0.2000	UNV								
AROCLOR-1248	UG/L	0.2000	UNV								
AROCLOR-1254	UG/L	0.2000	UNV								
AROCLOR-1260	UG/L	0.2000	UNV								
BETA-BHC	UG/L	0.2000	UNV								
CHLORDANE	UG/L	0.2000	UNV								
CHLOROBENZILATE	UG/L	15.0000	UNV								
DELTA-BHC	UG/L	0.2000	UNV								
DIELDRIN	UG/L	0.2000	UNV								
ENDOSULFAN II	UG/L	0.2000	UNV								
ENDOSULFAN SULFATE	UG/L	0.2000	UNV								
ENDOSULFAN-I	UG/L	0.2000	UNV								
ENDRIN	UG/L	0.2000	UNV								
ENDRIN ALDEHYDE	UG/L	0.2000	UNV								
GAMMA-BHC (LINDANE)	UG/L	0.2000	UNV								
HEPTACHLOR	UG/L	0.2000	UNV								
HEPTACHLOR EPOXIDE	UG/L	0.2000	UNV								
METHOXYCHLOR	UG/L	0.2000	UNV								
SULFOTEP	UG/L	15.0000	UNV								
TOXAPHENE	UG/L	0.5000	UNV								
RADIONUCLIDES											

000825

URANIUM-238	PCI/L	4.3500		NV	4.3000		NV									
SAMPLE NUMBER:		EMGW_SYSGEN_77			EMGW_SYSGEN_78			EMGW_SYSGEN_80			EMGW_SYSGEN_81			EMGW_SYSGEN_83		
LAB:		IT			IT											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	13.0000		NV	10.4000		NV	14.0000		NV	6.5000		NV	50.9000		NV
URANIUM-234	PCI/L	1.3800		NV	1.7000		NV									
THORIUM-230	PCI/L	0.4600		UNV	0.2280		NV									
RADIUM-226	PCI/L	1.0000		UNV	2.3000		NV									
URANIUM-235/236	PCI/L	0.2000		UNV	0.2000		UNV									
THORIUM-232	PCI/L	0.4600		UNV	0.7450		NV									
THORIUM, TOTAL	UG/L	4.2000		UNV	6.7200		NV									
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV									
THORIUM-228	PCI/L	0.8590		NV	1.1800		NV									
NEPTUNIUM-237	PCI/L	0.5000		UNV	0.5000		UNV									
PLUTONIUM-239/240	PCI/L	0.5000		UNV	0.5000		UNV									
PLUTONIUM-238	PCI/L	0.5000		UNV	0.5000		UNV									
TECHNETIUM-99	PCI/L	22.0000		UNV	15.0000		UNV									
RUTHENIUM-106	PCI/L	150.0000		UNV	150.0000		UNV									
CESIUM-137	PCI/L	5.5000		UNV	9.6000		UNV									
GROSS ALPHA	PCI/L	33.8000		NV	28.0000		UNV									
GROSS BETA	PCI/L	125.0000		NV	104.0000		NV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	4.0000		UNV												
1,3-DICHLOROBENZENE	UG/L	4.0000		UNV												
1,4-DICHLOROBENZENE	UG/L	4.0000		UNV												
2,4,5-TRICHLOROPHENOL	UG/L	4.0000		UNV												
2,4,6-TRICHLOROPHENOL	UG/L	4.0000		UNV												
2,4-DICHLOROPHENOL	UG/L	4.0000		UNV												
2,4-DIMETHYLPHENOL	UG/L	4.0000		UNV												
2,4-DINITROPHENOL	UG/L	4.0000		UNV												
2,4-DINITROTOLUENE	UG/L	15.0000		UNV												
2,6-DINITROTOLUENE	UG/L	15.0000		UNV												
2-CHLOROETHYLVINYL ETHER	UG/L				50.0000		UNV	50.0000		UNV	50.0000		UNV			
2-CHLORONAPHTHALENE	UG/L	4.0000		UNV												
2-CHLOROPHENOL	UG/L	4.0000		UNV												
2-METHYLNAPHTHALENE	UG/L	4.0000		UNV												
2-METHYLPHENOL	UG/L	4.0000		UNV												
2-NITROANILINE	UG/L	15.0000		UNV												
2-NITROPHENOL	UG/L	7.2000		NV												
3,3'-DICHLOROBENZIDINE	UG/L	15.0000		UNV												
3-NITROANILINE	UG/L	15.0000		UNV												
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000		UNV												
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000		UNV												
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000		UNV												
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000		UNV												
4-NITROANILINE	UG/L	15.0000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_77		EMGW_SYSGEN_78			EMGW_SYSGEN_80			EMGW_SYSGEN_81			EMGW_SYSGEN_83		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-NITROPHENOL	UG/L	4.0000		UNV												
ACENAPHTHENE	UG/L	4.0000		UNV												
ACENAPHTHYLENE	UG/L	4.0000		UNV												
ANTHRACENE	UG/L	4.0000		UNV												
BENZO(A)ANTHRACENE	UG/L	4.0000		UNV												
BENZO(A)PYRENE	UG/L	4.0000		UNV												
BENZO(B)FLUORANTHENE	UG/L	4.0000		UNV												
BENZO(G,H,I)PERYLENE	UG/L	4.0000		UNV												
BENZO(K)FLUORANTHENE	UG/L	4.0000		UNV												
BENZYL ALCOHOL	UG/L	40.0000		UNV												
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000		UNV												
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000		UNV												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	4.0000		UNV												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4.0000		UNV												
BUTYL BENZYL PHTHALATE	UG/L	4.0000		UNV												
CHRYSENE	UG/L	4.0000		UNV												
DI-N-BUTYL PHTHALATE	UG/L	4.0000		UNV												
DI-N-OCTYL PHTHALATE	UG/L	4.0000		UNV												
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000		UNV												
DIBENZOFURAN	UG/L	4.0000		UNV												
DIETHYL PHTHALATE	UG/L	4.0000		UNV												
DIMETHYL PHTHALATE	UG/L	4.0000		UNV												
FLUORANTHENE	UG/L	4.0000		UNV												
FLUORENE	UG/L	4.0000		UNV												
HEXACHLOROBENZENE	UG/L	4.0000		UNV												
HEXACHLOROBUTADIENE	UG/L	4.0000		UNV												
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000		UNV												
HEXACHLOROETHANE	UG/L	4.0000		UNV												
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000		UNV												
ISOPHORONE	UG/L	4.0000		UNV												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000		UNV												
N-NITROSODIMETHYLAMINE	UG/L	4.0000		UNV												
N-NITROSODIPHENYLAMINE	UG/L	4.0000		UNV												
NAPHTHALENE	UG/L	4.0000		UNV												
NITROBENZENE	UG/L	4.0000		UNV												
P-CHLOROANILINE	UG/L	4.0000		UNV												
PENTACHLOROPHENOL	UG/L	5.0000		NV												
PHENANTHRENE	UG/L	4.0000		UNV												
PHENOL	MG/L	4.0000		UNV												
PYRENE	UG/L	4.0000		UNV												
PYRIDINE	UG/L	4.0000		UNV												
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	5.0000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_77		EMGW_SYSGEN_78		EMGW_SYSGEN_80		EMGW_SYSGEN_81		EMGW_SYSGEN_83	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
1,1,2-TRICHLOROETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
1,1-DICHLOROETHANE	UG/L	20.8000	NV	22.8000	NV	21.6000	NV	19.9000	NV		
1,1-DICHLOROETHENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
1,2-DICHLOROETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
1,2-DICHLOROETHENE (TOTAL)	UG/L			57.1000	NV	42.8000	NV	40.3000	NV		
1,2-DICHLOROPROPANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
2-BUTANONE	UG/L	10.0000	UNV	10.0000	UNV	10.0000	UNV	10.0000	UNV		
2-HEXANONE	UG/L	10.0000	UNV	10.0000	UNV	10.0000	UNV	10.0000	UNV		
4-METHYL-2-PENTANONE	UG/L	10.0000	UNV	10.0000	UNV	10.0000	UNV	10.0000	UNV		
ACETONE	UG/L	10.0000	UNV	10.0000	UNV	10.0000	UNV	10.0000	UNV		
BENZENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
BROMODICHLOROMETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
BROMOFORM	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
BROMOMETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
CARBON DISULFIDE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
CARBON TETRACHLORIDE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
CHLOROBENZENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
CHLOROETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
CHLOROFORM	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
CHLOROMETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
DIBROMOCHLOROMETHANE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
ETHYLBENZENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
ISOBUTYL ALCOHOL	UG/L	3000.0000	UNV								
METHYLENE CHLORIDE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
STYRENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
T-1,4-DICHLORO-2-BUTENE	UG/L	100.0000	UNV								
TETRACHLOROETHENE	UG/L	195.0000	NV	182.0000	NV	203.0000	NV	189.0000	NV		
TOLUENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		
TRICHLOROETHENE	UG/L	292.0000	NV	344.0000	NV	326.0000	NV	272.0000	NV		
TRICHLOROFLUOROMETHANE	UG/L	5.0000	UNV								
VINYL ACETATE	UG/L	10.0000	UNV	10.0000	UNV	10.0000	UNV	10.0000	UNV		
VINYL CHLORIDE	UG/L	5.0000	UNV	6.5000	NV	5.0000	UNV	5.0000	UNV		
XYLENES, TOTAL	UG/L	5.0000	UNV	5.0000	UNV	5.0000	UNV	5.0000	UNV		

000828

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930113-1	GW930426-1	003133	003355	003635
TASK:	RCRA	50.03.23	3.2.4	3.2.4	3.2.4
LAB:	NET	NET	IT	IT	IT
WELL OR BORING NUMBER:	1031	1031	1032	1032	1032
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-JAN-93	26-APR-93	27-APR-88	20-JUL-88	23-OCT-88
NORTH COORDINATE:	481167.08	481167.08	480515.31	480515.31	480515.31
EAST COORDINATE:	1378136.61	1378136.61	1378296.87	1378296.87	1378296.87
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	163.0000		NV	160.0000		-									
ALLYL CHLORIDE	UG/L	5.0000		UNV												
AMMONIA	MG/L	114.0000		NV	130.0000		-	0.1000		UJ						
BICARBONATE ALKALINITY	MG/L	67.0000		NV	98.0000		-									
CARBONATE ALKALINITY	MG/L	84.0000		NV	66.0000		-									
CHLORIDE	MG/L	878.0000		NV	823.0000		-	616.0000		-						
FLUORIDE	MG/L	2.9500		NV	2.6400		-	0.2800		-						
NITRATE	MG/L	3.0000		NV				0.1400		-						
NITRATE/NITRITE	MG/L				27.0000		-									
NITRITE, AS NITROGEN	MG/L	20.7000		NV												
PH	STD	9.1400		NV	8.8900		-									
PHENOLS	MG/L	0.0100		UNV	0.0100		U	0.0200		-						
PHOSPHORUS	MG/L	0.1800		NV	0.1800		-	0.1450		-						
SPECIFIC CONDUCTIVITY	UMHOS/CM	3710.0000		NV	3220.0000		-									
SULFATE	MG/L	305.0000		NV	268.0000		-	375.0000		-						
TOTAL DISSOLVED SOLIDS	MG/L	2330.0000		NV	2130.0000		-									
TOTAL KJELDAHL NITROGEN	MG/L				150.0000		-									
TOTAL ORGANIC CARBON	MG/L	8.0000		NV	8.0000		J									
TOTAL ORGANIC HALIDES	MG/L	0.6640		NV	0.7340		J									
TOTAL ORGANIC NITROGEN	MG/L				20.0000		-	0.1000		J						
TOTAL SOLIDS	MG/L	1810.0000		NV	2250.0000		-									
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	0.4300		-									
ANTIMONY	MG/L	0.0200		UNV	0.0450		U									
ARSENIC	MG/L	0.0050		UNV	0.0020		U	0.2000		U						
BARIUM	MG/L	0.2000		UNV	0.0717		-	0.0830		-						
BERYLLIUM	MG/L	0.0050		UNV	0.0010		U									
CADMIUM	MG/L	0.0010		UNV	0.0030		U	0.0050		U						

SAMPLE NUMBER:	GW930113-1			GW930426-1			003133			003355			003635		
LAB:	NET			NET			IT								
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CALCIUM	MG/L	212.0000		NV	197.0000		-	233.0000		-						
CHROMIUM	MG/L	0.3090		NV	0.0050		U	0.0200		U						
COBALT	MG/L	0.0146		NV	0.0090		-									
COPPER	MG/L	0.0200		UNV	0.0175		U	0.0100		U						
CYANIDE	MG/L	0.0050		UNV	0.0295		J									
IRON	MG/L	0.2900		NV	1.9200		-	0.0500		U						
LEAD	MG/L	0.0030		UNV	0.0023		J	0.0500		U						
MAGNESIUM	MG/L	17.3000		NV	14.1000		-	68.2000		-						
MANGANESE	MG/L	0.0400		NV	0.0523		-	0.0130		-						
MERCURY	MG/L	0.0002		UNV	0.0002		U	0.0002		U						
MOLYBDENUM	MG/L	0.7500		NV				0.0200		U						
NICKEL	MG/L	0.1360		NV	0.2010		-	0.0200		U						
POTASSIUM	MG/L	99.6000		NV	82.0000		-	1.3000		-						
SELENIUM	MG/L	0.0050		UNV	0.0060		UJ	0.2000		U						
SILVER	MG/L	0.0010		UNV	0.0070		U	0.0300		U						
SODIUM	MG/L	190.0000		NV	175.0000		-	282.0000		-						
THALLIUM	MG/L	0.0100		UNV	0.0020		UJ									
VANADIUM	MG/L	0.0500		UNV	0.0030		U									
ZINC	MG/L	0.0200		UNV	0.0071		-									
MISC																
1,2,3-TRICHLOROPROPANE	UG/L	5.0000		UNV												
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	2.0000		UNV												
1,2-DIBROMOETHANE	UG/L	2.0000		UNV												
2-CHLORO-1,3-BUTADIENE	UG/L	5.0000		UNV												
ACROLEIN	UG/L	50.0000		UNV												
ACROLEIN	UG/L	50.0000		UNV												
ACRYLONITRILE	UG/L	50.0000		UNV												
DICHLORODIFLUOROMETHANE	UG/L	10.0000		UNV												
ETHYL CYANIDE	UG/L	20.0000		UNV												
ETHYL METHACRYLATE	UG/L	5.0000		UNV												
IODOMETHANE	UG/L	5.0000		UNV												
METHACRYLONITRILE	UG/L	5.0000		UNV												
METHYL METHACRYLATE	UG/L	5.0000		UNV												
PENTACHLOROETHANE	UG/L	5.0000		UNV												
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	20.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L				1.8000	.7	-	96.8000	15.7	J	70.5000	9.9	R	92.4000	12	J
URANIUM, TOTAL	UG/L	7.2000		NV	8.9000	.6	J	256.0000	41	-	196.0000	41	-	230.0000	44	-
URANIUM-234	PCI/L				0.9000	.2	J	84.9000	13.9	J	61.3000	8.7	R	82.4000		J
THORIUM-230	PCI/L	0.2000	.1	UNV	0.3000	.1	UJ	1.6000	.6	J	1.0000		U	1.0000		UJ

000830

B704

SAMPLE NUMBER:		GW930113-1			GW930426-1			003133			003355			003635		
LAB:		CORE			CORE			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L	5.0000	.8	NV	3.0000	.4	J	1.0000		UJ	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L				0.2000	.2	UJ	4.6000	1.4	J	3.9000	.8	-	3.3000	.8	J
THORIUM-232	PCI/L	0.2000	.1	UNV	0.4000	.1	UJ	1.0000		UJ	1.0000		U	1.0000		UJ
THORIUM, TOTAL	UG/L	1.7000		NV							5.0000		U	5.0000		UJ
RADIUM-228	PCI/L	3.0000	1.3	UNV	3.0000	.9	U	3.0000		UJ	3.0000		U	4.8000	1.8	-
THORIUM-228	PCI/L	0.2000	.1	UNV	0.3000	.1	UJ	1.0000		UJ	1.0000		U	1.0000		UJ
NEPTUNIUM-237	PCI/L							1.0000		R	1.0000		U	1.0000		UJ
PLUTONIUM-239/240	PCI/L							1.0000		U	1.0000		U	1.0000		UJ
PLUTONIUM-238	PCI/L							1.0000		U	1.0000		U	1.0000		UJ
STRONTIUM-90	PCI/L							5.0000		U	6.0000	1.3	-	5.0000		U
TECHNETIUM-99	PCI/L				22.5000	8.4	-	30.0000		UJ	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L							150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L							20.0000		R	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	8.3000	5.8	NV	13.5000	8	UNV									
GROSS BETA	PCI/L	99.9000	9.3	NV	104.0000	11.1	NV									
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
CUMENE	UG/L	1.0000		UNV												
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	20.0000		-									
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	4.0000		J									
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				60.0000		-									
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	10.0000		U									
2-BUTANONE	UG/L	10.0000		UNV	10.0000		U									
2-HEXANONE	UG/L	10.0000		UNV	10.0000		U									
4-METHYL-2-PENTANONE	UG/L	10.0000		UNV	18.0000		-									
ACETONE	UG/L	10.0000		UNV	17.0000		UJ									
BENZENE	UG/L	1.0000		UNV	4.0000		J									
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	10.0000		U									
BROMOFORM	UG/L	1.0000		UNV	10.0000		U									
BROMOMETHANE	UG/L	5.0000		UNV	10.0000		U									
CARBON DISULFIDE	UG/L	1.0000		UNV	10.0000		U									
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	10.0000		U									
CHLOROBENZENE	UG/L	1.0000		UNV	10.0000		U									
CHLOROETHANE	UG/L	10.0000		UNV	10.0000		U									
CHLOROFORM	UG/L	1.0000		UNV	2.0000		J									

SAMPLE NUMBER:		GW930113-1		GW930426-1		003133			003355			003635		
LAB:		NET		NET										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROMETHANE	UG/L	10.0000		UNV	10.0000		UJ									
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	10.0000		U									
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	10.0000		U									
ETHYLBENZENE	UG/L	1.0000		UNV	10.0000		U									
METHYLENE CHLORIDE	UG/L	10.0000		UNV	4.0000		J									
STYRENE	UG/L	1.0000		UNV	3.0000		J									
TETRACHLOROETHENE	UG/L	166.0000		NV	170.0000		-									
TOLUENE	UG/L	1.0000		UNV	10.0000		-									
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	10.0000		U									
TRICHLOROETHENE	UG/L	268.0000		NV	230.0000		-									
TRICHLOROFLUOROMETHANE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	10.0000		UNV												
VINYL CHLORIDE	UG/L	5.0000		UNV	10.0000		UJ									
XYLENES, TOTAL	UG/L	1.0000		UNV	6.0000		J									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003851			066823			120282			120283			EMGW_SYSGEN_85		
TASK:		3.2.4			9.27			50.03.23			50.03.23			GWMON		
LAB:		IT			IT			DATACHEM			CORE			NET		
WELL OR BORING NUMBER:		1032			1032			1032			1032			1032		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		22-JAN-89			04-JAN-90			25-JUL-93			25-JUL-93			18-APR-90		
NORTH COORDINATE:		480515.31			480515.31			480515.31			480515.31			480515.31		
EAST COORDINATE:		1378296.87			1378296.87			1378296.87			1378296.87			1378296.87		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1000		U												
CHLORIDE	MG/L	310.0000		-										295.0000		NV
FLUORIDE	MG/L	0.2000		-												
NITRATE	MG/L	8.3000		J												
NITRATE, AS NITROGEN	MG/L													25.2000		NV
PHENOLS	MG/L	0.0100		U												
PHOSPHORUS	MG/L	0.6000		-												
SULFATE	MG/L	280.0000		-										268.0000		NV
TOTAL KJELDAHL NITROGEN	MG/L	0.2000		-												
TOTAL ORGANIC CARBON	MG/L													2.0000		NV
TOTAL ORGANIC HALIDES	MG/L	0.0240		-												
TOTAL ORGANIC HALOGENS	MG/L													0.0410		NV
TOTAL ORGANIC NITROGEN	MG/L	0.2000		-												
INORGANICS																
ALUMINUM	MG/L							0.0935		U						
ANTIMONY	MG/L							0.0450		UR						
ARSENIC	MG/L	0.0020		U				0.0010		U						
BARIUM	MG/L	0.0760		-				0.0538		-						
BERYLLIUM	MG/L							0.0010		U						
CADMIUM	MG/L	0.0080		-				0.0030		U						
CALCIUM	MG/L	215.0000		-				211.0000		J						
CHROMIUM	MG/L	0.0380		-				0.4910		J						
COBALT	MG/L							0.0060		U						
COPPER	MG/L	0.0190		-				0.0111		-						
IRON	MG/L	0.0850		-				1.3900		J						
LEAD	MG/L	0.0020		UJ				0.0010		UJ						
MAGNESIUM	MG/L	51.6000		-				47.4000		-						
MANGANESE	MG/L	0.0130		-				0.0141		-						

000833

SAMPLE NUMBER:		003851			066823			120282			120283			EMGW_SYSGEN_85		
LAB:		IT						DATACHEM								
SUFFIX/FILTERFLAG:		NONE-FIL			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U				0.0002		U						
MOLYBDENUM	MG/L	0.0200		U												
NICKEL	MG/L	0.0240		-				0.0429		-						
POTASSIUM	MG/L	1.4300		-				2.2700		-						
SELENIUM	MG/L	0.0160		-				0.0032		J						
SILVER	MG/L	0.0005		U				0.0034		-						
SODIUM	MG/L	189.0000		-				68.3000		-						
THALLIUM	MG/L							0.0010		U						
VANADIUM	MG/L							0.0052		-						
ZINC	MG/L							0.0177		-						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L													1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	87.900011.1		-	76.7000	12	-				78.8000	7.9	J	73.1000		NV
URANIUM, TOTAL	UG/L	276.00007		-	337.0000	46	J				206.0000	14.4	-	261.0000		NV
URANIUM-234	PCI/L	73.40009.3		-	67.6000	11	R				63.7000	6.5	J	65.6000		NV
THORIUM-230	PCI/L	1.0000		U	1.0000		U				0.3000	.3	R	0.4900		UNV
RADIUM-226	PCI/L	1.0000		U							1.0000	.3	U	1.0000		UNV
URANIUM-235/236	PCI/L	3.4000	.7	-	4.2900	1.3	-				3.5000	.8	J	3.8000		NV
THORIUM-232	PCI/L	1.0000		U							0.2000	.1	R	0.4900		UNV
THORIUM, TOTAL	UG/L	4.0000		U										4.4000		UNV
RADIUM-228	PCI/L	3.0000		UJ							3.0000	1.2	U	3.0000		UNV
THORIUM-228	PCI/L	1.0000		U	1.0000		U				0.2000	.2	R	0.4900		UNV
NEPTUNIUM-237	PCI/L	1.0000		U												
PLUTONIUM-239/240	PCI/L	1.0000		UJ												
PLUTONIUM-238	PCI/L	1.0000		UJ												
STRONTIUM-90	PCI/L	5.0000		U												
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U				15.0000	7.6	U			
RUTHENIUM-106	PCI/L	150.0000		R												
CESIUM-137	PCI/L	20.0000		R												
GROSS ALPHA	PCI/L													131.0000	.032	NV
GROSS BETA	PCI/L													74.6000	.0226	NV
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L													1.0000		UNV
1,4-DICHLOROBENZENE	UG/L													1.0000		UNV
2-CHLOROETHYLVINYL ETHER	UG/L													60.0000		UNV
VOLATILES																

000834

5704

SAMPLE NUMBER:		003851			066823			120282			120283			EMGW_SYSGEN_85	
LAB:														NET	
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHENE	UG/L													1.0000		UNV
1,2-DICHLOROETHANE	UG/L													1.0000		UNV
1,2-DICHLOROPROPANE	UG/L													1.0000		UNV
BENZENE	UG/L													1.0000		UNV
BROMODICHLOROMETHANE	UG/L													1.0000		UNV
BROMOFORM	UG/L													1.0000		UNV
BROMOMETHANE	UG/L													1.0000		UNV
CARBON TETRACHLORIDE	UG/L													1.0000		UNV
CHLOROBENZENE	UG/L													1.0000		UNV
CHLOROFORM	UG/L													1.0000		UNV
CHLOROMETHANE	UG/L													1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L													1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L													1.0000		UNV
ETHYLBENZENE	UG/L													1.0000		UNV
METHYLENE CHLORIDE	UG/L													1.0000		UNV
TETRACHLOROETHENE	UG/L													1.0000		UNV
TOLUENE	UG/L													1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L													1.0000		UNV
TRICHLOROETHENE	UG/L													1.0000		UNV
TRICHLOROFLUOROMETHANE	UG/L													1.0000		UNV
VINYL CHLORIDE	UG/L													1.0000		UNV

000835

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_86	EMGW_SYSGEN_87	003220	003567	003773
TASK:	GWMON	GWMON	3.2.4	3.2.4	3.2.4
LAB:	NET	IT	IT	IT	IT
WELL OR BORING NUMBER:	1032	1032	1033	1033	1033
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-OCT-90	01-NOV-90	22-MAY-88	24-AUG-88	20-NOV-88
NORTH COORDINATE:	480515.31	480515.31	480412.89	480412.89	480412.89
EAST COORDINATE:	1378296.87	1378296.87	1378675.2	1378675.2	1378675.2
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	440.0000		NV												
AMMONIA	MG/L	0.0200		UNV				0.5000		U	0.1000		UJ	0.1000		UJ
CHLORIDE	MG/L	64.0000		NV				11.0000		-	29.5000		-	1.2500		-
FLUORIDE	MG/L	0.2600		NV				0.6300		J	0.6600		J	0.4800		-
NITRATE	MG/L							0.1000		-	0.1000		UJ	0.1480		-
NITRATE/NITRITE	MG/L	22.4000		NV												
PH	STD	6.8900		NV												
PHENOLS	MG/L	0.0050		UNV				0.0200		J	0.0200		J	0.0100		U
PHOSPHORUS	MG/L	0.0200		UNV				0.2800		-	0.3100		-	0.0900		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	1990.0000		NV												
SULFATE	MG/L	176.0000		NV				109.0000		-	75.0000		J	116.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	1410.0000		NV												
TOTAL KJELDAHL NITROGEN	MG/L							0.5000		U				0.4900		J
TOTAL ORGANIC CARBON	MG/L	5.0000		NV												
TOTAL ORGANIC HALIDES	MG/L										0.0500		UJ	0.0500		U
TOTAL ORGANIC HALOGENS	MG/L	0.5260		NV												
TOTAL ORGANIC NITROGEN	MG/L							0.5000		U	0.4000		J	0.4900		J
INORGANICS																
ARSENIC	MG/L							0.0020		U	0.0020		U	0.0020		UJ
BARIUM	MG/L							0.0750		-	0.0930		-	0.0660		-
CADMIUM	MG/L							0.0020		U	0.0020		U	0.0020		U
CALCIUM	MG/L							110.0000		-	120.0000		-	89.3000		-
CHROMIUM	MG/L							0.0200		U	0.0200		U	0.0200		U
COPPER	MG/L							0.0120		-	0.0100		U	0.0100		U
CYANIDE	MG/L	0.0540		NV												
IRON	MG/L							0.0180		-	0.0070		-	0.1130		-
LEAD	MG/L							0.0020		U	0.0020		J	0.0020		UJ
MAGNESIUM	MG/L							43.8000		-	58.8000		-	35.3000		-

SAMPLE NUMBER:		EMGW_SYSGEN_86			EMGW_SYSGEN_87			003220			003567			003773		
LAB:								IT			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							0.0510		-	0.2100		-	0.0280		-
MERCURY	MG/L							0.0002		U	0.0002		U	0.0002		U
MOLYBDENUM	MG/L							0.0330		-	0.0200		U	0.0200		U
NICKEL	MG/L							0.0200		U	0.0210		-	0.0200		U
POTASSIUM	MG/L							0.5270		-	1.9000		-	7.6300		-
SELENIUM	MG/L							0.0020		U	0.0020		UJ	0.0020		UJ
SILVER	MG/L							0.0100		U	0.0100		U	0.0005		U
SODIUM	MG/L							11.5000		-	11.4000		-	14.6000		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L	69.8000		NV	77.3000		NV	3.5000	.6	J	3.0000	.6	-	5.0000	.8	-
URANIUM, TOTAL	UG/L	209.0000		NV	237.0000		NV	11.0000	1	R	9.0000	1	-	15.0000	3	-
URANIUM-234	PCI/L	62.7000		NV	71.6000		NV	3.7000	.6	J	3.3000	.6	-	4.9000	.8	-
THORIUM-230	PCI/L	0.2710		NV	0.2800		UNV	1.4000	.4	J	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV	1.0000		U	1.0000		UJ	1.0000		U
URANIUM-235/236	PCI/L	3.4900		NV	4.5800		NV	1.0000		UJ	1.0000		U	1.0000		U
THORIUM-232	PCI/L	0.2600		UNV	0.2800		UNV	1.0000		UJ	1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L	2.3000		UNV	2.5000		UNV				3.0000	2	-	2.0000		U
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV	3.0000		UJ	3.0000		U	3.0000		UJ
THORIUM-228	PCI/L	1.1400		NV	0.2880		NV	1.0000		UJ	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L				0.5000		UNV	1.0000		UJ	1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L				0.5000		UNV	1.0000		UJ	1.0000		U	1.0000		UJ
PLUTONIUM-238	PCI/L				0.5000		UNV	1.0000		UJ	1.0000		U	1.0000		UJ
STRONTIUM-90	PCI/L				1.0000		UNV	5.0000		U	5.0000		U	3.0000		U
TECHNETIUM-99	PCI/L				17.0000		UNV	30.0000		UJ	30.0000		U	30.0000		UJ
RUTHENIUM-106	PCI/L				150.0000		UNV	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L				20.0000		UNV	20.0000		R	20.0000		R	11.0000		R
GROSS ALPHA	PCI/L	147.0000		NV	104.0000		NV									
GROSS BETA	PCI/L	68.3000		NV	99.4000		NV									
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHANE	UG/L	1.0000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_86			EMGW_SYSGEN_87			003220			003567			003773		
LAB:		NET														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHENE	UG/L	1.0000		UNV												
1,2-DICHLOROETHANE	UG/L	1.0000		UNV												
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV												
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV												
2-BUTANONE	UG/L	2.0000		UNV												
2-HEXANONE	UG/L	2.0000		UNV												
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV												
ACETONE	UG/L	2.0000		UNV												
BENZENE	UG/L	1.0000		UNV												
BROMODICHLOROMETHANE	UG/L	1.0000		UNV												
BROMOFORM	UG/L	1.0000		UNV												
BROMOMETHANE	UG/L	1.0000		UNV												
CARBON DISULFIDE	UG/L	1.0000		UNV												
CARBON TETRACHLORIDE	UG/L	1.0000		UNV												
CHLOROBENZENE	UG/L	1.0000		UNV												
CHLOROETHANE	UG/L	1.0000		UNV												
CHLOROFORM	UG/L	1.0000		UNV												
CHLOROMETHANE	UG/L	1.0000		UNV												
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV												
ETHYLBENZENE	UG/L	1.0000		UNV												
METHYLENE CHLORIDE	UG/L	1.0000		UNV												
STYRENE	UG/L	1.0000		UNV												
TETRACHLOROETHENE	UG/L	1.0000		UNV												
TOLUENE	UG/L	1.0000		UNV												
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
TRICHLOROETHENE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	2.0000		UNV												
VINYL CHLORIDE	UG/L	1.0000		UNV												
XYLENES, TOTAL	UG/L	1.0000		UNV												

000838

5204

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003961				066824				120527				120527F				120529					
TASK:		3.2.4				9.27				50.03.23				50.03.23				50.03.23					
LAB:		IT				IT				TCT				TCT				CORE					
WELL OR BORING NUMBER:		1033				1033				1033				1033				1033					
DEPTH:		-				-				-				-				-					
DATE COLLECTED:		10-MAR-89				05-JAN-90				12-JUL-93				12-JUL-93				12-JUL-93					
NORTH COORDINATE:		480412.89				480412.89				480412.89				480412.89				480412.89					
EAST COORDINATE:		1378675.2				1378675.2				1378675.2				1378675.2				1378675.2					
QA TYPE:		NORMAL				NORMAL				NORMAL				NORMAL				NORMAL					
QC OF:																							
SUFFIX/FILTERFLAG:		NONE-UNF				NONE-UNF				NONE-UNF				NONE-FIL				NONE-UNF					
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)				
GENERAL CHEMISTRY																							
ALKALINITY AS CACO3	MG/L							338.0000		-													
AMMONIA	MG/L	0.2000		UJ				0.0300		U													
CHLORIDE	MG/L	9.2000		J				13.7000		-													
FLUORIDE	MG/L	0.4000		J				0.3000		-													
NITRATE	MG/L	0.6400		J				0.1430		-													
PHENOLS	MG/L	0.0050		UJ				0.0050		U													
PHOSPHATE	MG/L							0.1600		J													
PHOSPHORUS	MG/L	0.0600		J																			
SULFATE	MG/L	97.0000		J				206.0000		-													
SULFIDE	MG/L							1.0000		U													
TOTAL KJELDAHL NITROGEN	MG/L	0.3000		UJ				0.2710		-													
TOTAL ORGANIC CARBON	MG/L							2.6000		-													
TOTAL ORGANIC HALIDES	MG/L	0.0500		UJ				0.0063		UJ													
TOTAL ORGANIC NITROGEN	MG/L	0.1000		J				0.2710		-													
INORGANICS																							
ALUMINUM	MG/L							1.5000		-	0.0592		U										
ANTIMONY	MG/L							0.0140		U	0.0140		U										
ARSENIC	MG/L	0.0030		UJ				0.0064		J	0.0027		J										
BARIUM	MG/L	0.0570		J				0.1180		-	0.0970		-										
BERYLLIUM	MG/L							0.0050		U	0.0050		U										
CADMIUM	MG/L	0.0050		UJ				0.0050		U	0.0050		U										
CALCIUM	MG/L	100.0000		J				135.0000		-	128.0000		-										
CHROMIUM	MG/L	0.0300		J				0.0060		U	0.0060		U										
COBALT	MG/L							0.0170		U	0.0170		U										
COPPER	MG/L	0.0100		J				0.0099		-	0.0090		U										
CYANIDE	MG/L							0.0050		U	0.0050		U										
IRON	MG/L	0.9400		J				1.6500		-	0.0220		U										
LEAD	MG/L	0.0020		J				0.0086		-	0.0010		U										

000839

SAMPLE NUMBER:		003961		066824			120527			120527F			120529		
LAB:		IT					TCT			TCT					
SUFFIX/FILTERFLAG:		NONE-FIL		-			NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	37.0000		J				43.2000		-	44.2000		-			
MANGANESE	MG/L	0.0260		J				0.3540		-	0.0119		-			
MERCURY	MG/L	0.0002		UJ				0.0001		U	0.0001		U			
MOLYBDENUM	MG/L	0.0100		J				0.0170		UJ	0.0170		UJ			
NICKEL	MG/L	0.0300		UJ				0.0180		U	0.0180		U			
POTASSIUM	MG/L	0.7500		J				1.9900		-	0.9900		-			
SELENIUM	MG/L	0.0020		UJ				0.0037		J	0.0043		-			
SILICON	MG/L							8.0300		J	6.8400		J			
SILVER	MG/L	0.0100		UJ				0.0020		U	0.0020		U			
SODIUM	MG/L	24.0000		J				20.0000		-	18.0000		-			
THALLIUM	MG/L							0.0010		UJ	0.0010		UJ			
VANADIUM	MG/L							0.0240		U	0.0240		U			
ZINC	MG/L							0.0091		U	0.0117		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	8.2000	1.2	-	6.1300	1.13	-							8.2000	1.5	R
URANIUM, TOTAL	UG/L	23.00004		-	24.3000	4.4	J							27.4000	1.9	-
URANIUM-234	PCI/L	7.1000	1.1	-	5.6400	1.07	R							6.9000	1.4	R
THORIUM-230	PCI/L	1.0000		U	1.0000		U							0.2000	.2	U
RADIUM-226	PCI/L	1.0000		U										1.0000	.5	U
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U							0.3000	.9	R
THORIUM-232	PCI/L	1.0000		U										0.2000	.1	U
THORIUM, TOTAL	UG/L	2.0000		U												
RADIUM-228	PCI/L	3.0000		UJ										3.0000	1.1	U
THORIUM-228	PCI/L	1.0000		U	1.0000		U							0.2000	.3	U
NEPTUNIUM-237	PCI/L	1.0000		U												
PLUTONIUM-239/240	PCI/L	1.0000		U												
PLUTONIUM-238	PCI/L	1.0000		U												
STRONTIUM-90	PCI/L	5.0000		U												
TECHNETIUM-99	PCI/L	30.0000		UJ	30.0000		U							20.1000	9.1	-
RUTHENIUM-106	PCI/L	150.0000		R												
CESIUM-137	PCI/L	20.0000		R												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							5.0000		J						
1,1,2-TRICHLOROETHANE	UG/L							2.0000		J						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						

SAMPLE NUMBER:		003961			066824			120527			120527F			120529		
LAB:								TCT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-HEXANONE	UG/L							6.0000		J						
4-METHYL-2-PENTANONE	UG/L							7.0000		J						
ACETONE	UG/L							13.0000		UJ						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							2.0000		J						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL ACETATE	UG/L							10.0000		UJ						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120529F	120531	EMGW_SYSGEN_88	EMGW_SYSGEN_88D	003122
TASK:	50.03.23	50.03.23	GWMON	GWMON	3.2.4
LAB:	CORE	FERMCO	NET	NET	IT
WELL OR BORING NUMBER:	1033	1033	1033	1033	1034
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-JUL-93	12-JUL-93	23-APR-90	23-APR-90	25-APR-88
NORTH COORDINATE:	480412.89	480412.89	480412.89	480412.89	480240.85
EAST COORDINATE:	1378675.2	1378675.2	1378675.2	1378675.2	1378410.34
QA TYPE:	NORMAL	NORMAL	NORMAL	DUPLICATE	NORMAL
QC OF:				EMGW_SYSGEN_88	
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L													0.1000		U
CHLORIDE	MG/L							6.0000		NV	6.0000		NV	4.6000		-
FLUORIDE	MG/L													0.4000		-
NITRATE	MG/L													1.4000		-
NITRATE, AS NITROGEN	MG/L							0.2400		NV	0.2400		NV			
PHENOLS	MG/L													0.0100		-
PHOSPHORUS	MG/L													0.3550		-
SULFATE	MG/L							113.0000		NV	86.0000		NV	197.0000		-
TOTAL ORGANIC CARBON	MG/L							2.0000		NV	2.0000		NV			
TOTAL ORGANIC HALOGENS	MG/L							0.0100		UNV	0.0100		UNV			
TOTAL ORGANIC NITROGEN	MG/L													0.1000		U
INORGANICS																
ARSENIC	MG/L													0.2000		U
BARIUM	MG/L													0.0380		-
CADMIUM	MG/L													0.0050		U
CALCIUM	MG/L													118.0000		-
CHROMIUM	MG/L													0.0200		U
COPPER	MG/L													0.0100		U
IRON	MG/L													0.0050		U
LEAD	MG/L													0.0500		U
MAGNESIUM	MG/L													53.1000		-
MANGANESE	MG/L													0.1110		-
MERCURY	MG/L													0.0004		-
MOLYBDENUM	MG/L													0.0200		U
NICKEL	MG/L													0.0200		U
POTASSIUM	MG/L													1.5600		-
SELENIUM	MG/L													0.2000		U
SILVER	MG/L													0.0100		U

000842

8704

SAMPLE NUMBER:		120529F			120531			EMGW_SYSGEN_88			EMGW_SYSGEN_88D			003122		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SODIUM	MG/L													34.9000		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	8.1000	1.8	R				7.5400		NV	7.1400		NV	1.1000	.5	J
URANIUM, TOTAL	UG/L	27.5000	1.9	-	28.0000		NV	21.5000		NV	23.5000		NV	4.0000	1	R
URANIUM-234	PCI/L	5.6000	.8	R				6.0800		NV	5.9500		NV	1.3000	.5	J
THORIUM-230	PCI/L	0.6000	.3	-				0.8720		NV	1.2600		NV	1.0000		UJ
RADIUM-226	PCI/L	1.0000	.4	UJ				1.0000		UNV	1.0000		UNV	1.0000		UJ
URANIUM-235/236	PCI/L	0.4000	.4	R				0.6100		NV	0.3210		NV	1.0000		UJ
THORIUM-232	PCI/L	0.2000	.2	U				0.3300		UNV	0.3480		NV	1.0000		UJ
THORIUM, TOTAL	UG/L							2.9000		UNV	3.1400		NV			
RADIUM-228	PCI/L	3.0000	1.3	U				3.0000		UNV	3.0000		UNV	3.0000		UJ
THORIUM-228	PCI/L	0.2000	.3	U				0.6540		NV	0.3680		NV	1.0000		UJ
NEPTUNIUM-237	PCI/L													1.0000		UJ
PLUTONIUM-239/240	PCI/L													1.0000		R
PLUTONIUM-238	PCI/L													1.0000		R
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L	15.0000	8.8	U										30.0000		U
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
GROSS ALPHA	PCI/L							54.4000	.0182	NV	0.0582	.0182	NV			
GROSS BETA	PCI/L							45.4000	.0191	NV	0.0358	.0191	NV			
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
1,4-DICHLOROBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
2-CHLOROETHYLVINYL ETHER	UG/L							60.0000		UNV	60.0000		UNV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
1,2-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	1.0000		UNV			
BENZENE	UG/L							1.0000		UNV	1.0000		UNV			
BROMODICHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			

SAMPLE NUMBER:	120529F	120531	EMGW_SYSGEN_88	EMGW_SYSGEN_88D	003122
LAB:			NET	NET	
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOFORM	UG/L							1.0000		UNV	1.0000		UNV			
BROMOMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
CARBON TETRACHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROFORM	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV			
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
ETHYLBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
METHYLENE CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
TETRACHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
TOLUENE	UG/L							1.0000		UNV	1.0000		UNV			
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV			
TRICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
VINYL CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003356	003636	003850	066825	120532
TASK:	3.2.4	3.2.4	3.2.4	9.27	50.03.23
LAB:	IT	IT	IT	IT	TCT
WELL OR BORING NUMBER:	1034	1034	1034	1034	1034
DEPTH:	-	-	-	-	-
DATE COLLECTED:	20-JUL-88	23-OCT-88	22-JAN-89	15-DEC-89	12-JUL-93
NORTH COORDINATE:	480240.85	480240.85	480240.85	480240.85	480240.85
EAST COORDINATE:	1378410.34	1378410.34	1378410.34	1378410.34	1378410.34
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													474.0000		-
AMMONIA	MG/L							0.1000		U				0.0300		U
CHLORIDE	MG/L							6.8000		-				4.1400		-
FLUORIDE	MG/L							0.4000		-				0.3100		-
NITRATE	MG/L							0.5500		J				0.0720		-
PHENOLS	MG/L							0.0100		U				0.0050		U
PHOSPHATE	MG/L													0.1590		J
PHOSPHORUS	MG/L							0.1000		-						
SULFATE	MG/L							210.0000		-				169.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL KJELDAHL NITROGEN	MG/L							0.1000		-				0.1660		-
TOTAL ORGANIC CARBON	MG/L													1.6000		-
TOTAL ORGANIC HALIDES	MG/L							0.0160		-				0.0100		UJ
TOTAL ORGANIC NITROGEN	MG/L							0.1000		-				0.1660		-
INORGANICS																
ALUMINUM	MG/L													4.9400		-
ANTIMONY	MG/L													0.0140		U
ARSENIC	MG/L							0.0020		U				0.0051		J
BARIUM	MG/L							0.0440		-				0.0857		-
BERYLLIUM	MG/L													0.0050		U
CADMIUM	MG/L							0.0100		-				0.0050		-
CALCIUM	MG/L							128.0000		-				157.0000		-
CHROMIUM	MG/L							0.0280		-				0.0100		-
COBALT	MG/L													0.0170		U
COPPER	MG/L							0.0150		-				0.0090		U
CYANIDE	MG/L													0.0050		U
IRON	MG/L							0.0730		-				6.5100		-
LEAD	MG/L							0.0020		UJ				0.0146		-

000345

SAMPLE NUMBER:		003356			003636			003850			066825			120532		
LAB:								IT						TCT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L							57.3000		-				63.9000		-
MANGANESE	MG/L							0.0090		-				0.2790		-
MERCURY	MG/L							0.0002		U				0.0001		U
MOLYBDENUM	MG/L							0.0200		U				0.0170		UJ
NICKEL	MG/L							0.0260		-				0.0180		U
POTASSIUM	MG/L							0.1000		U				2.9900		J
SELENIUM	MG/L							0.0040		U				0.0020		U
SILICON	MG/L													19.1000		J
SILVER	MG/L							0.0005		U				0.0020		U
SODIUM	MG/L							45.5000		-				38.5000		-
THALLIUM	MG/L													0.0012		UJ
VANADIUM	MG/L													0.0240		U
ZINC	MG/L													0.0188		U
RADIONUCLIDES																
URANIUM-238	PCI/L	1.8000	.4	R	3.4000	.6	J	1.1000	.3	-	4.6000	1.12	-			
URANIUM, TOTAL	UG/L	10.00002		-	7.0000	1	-	3.0000	1	-	10.7000	2.5	-			
URANIUM-234	PCI/L	2.6000	.5	R	2.9000	.4	J	1.2000	.3	-	5.5100	1.26	-			
THORIUM-230	PCI/L	2.4000	.6	-	1.0000		UJ	1.0000		U	1.0000		U			
RADIUM-226	PCI/L	1.0000		U	1.0000		U	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		U	1.0000		UJ	1.0000		U	1.0000		U			
THORIUM-232	PCI/L	1.0000		U	1.0000		UJ	1.0000		U						
THORIUM, TOTAL	UG/L	4.0000		U	2.0000		UJ	3.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.2000		UJ						
THORIUM-228	PCI/L	1.0000		U	1.0000		UJ	1.0000		U	1.0000		U			
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		UJ	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U	30.0000		U			
RUTHENIUM-106	PCI/L	150.0000		U	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		U	20.0000		R	20.0000		R						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													2.0000		J
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		U
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		U

000846

5704

SAMPLE NUMBER:		003356			003636			003850			066825			120532		
LAB:														TCT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													10.0000		U

000847

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120532F	120533	120533F	120536	120536F
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	TCT	CORE	CORE	FERMCO	FERMCO
WELL OR BORING NUMBER:	1034	1034	1034	1034	1034
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-JUL-93	12-JUL-93	12-JUL-93	12-JUL-93	12-JUL-93
NORTH COORDINATE:	480240.85	480240.85	480240.85	480240.85	480240.85
EAST COORDINATE:	1378410.34	1378410.34	1378410.34	1378410.34	1378410.34
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	0.0975		U												
ANTIMONY	MG/L	0.0140		U												
ARSENIC	MG/L	0.0020		U												
BARIUM	MG/L	0.0411		-												
BERYLLIUM	MG/L	0.0050		U												
CADMIUM	MG/L	0.0050		U												
CALCIUM	MG/L	132.0000		-												
CHROMIUM	MG/L	0.0060		U												
COBALT	MG/L	0.0170		U												
COPPER	MG/L	0.0090		U												
CYANIDE	MG/L	0.0050		U												
IRON	MG/L	0.0220		U												
LEAD	MG/L	0.0010		U												
MAGNESIUM	MG/L	56.7000		-												
MANGANESE	MG/L	0.0040		U												
MERCURY	MG/L	0.0001		U												
MOLYBDENUM	MG/L	0.0170		UJ												
NICKEL	MG/L	0.0180		U												
POTASSIUM	MG/L	1.2100		-												
SELENIUM	MG/L	0.0020		U												
SILICON	MG/L	8.7300		J												
SILVER	MG/L	0.0020		U												
SODIUM	MG/L	38.2000		-												
THALLIUM	MG/L	0.0010		UJ												
VANADIUM	MG/L	0.0240		U												
ZINC	MG/L	0.0060		U												
RADIONUCLIDES																
URANIUM-238	PCI/L				1.4000	.5	-	1.0000	.4	J						

000848

5704

SAMPLE NUMBER:	120532F	120533	120533F	120536	120536F
LAB:		CORE	CORE		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-FIL	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				2.9000	.2	-	2.9000	.2	-	3.4000		NV	2.7000		NV
URANIUM-234	PCI/L				2.0000	3	-	1.3000	.4	J						
THORIUM-230	PCI/L				0.4000	.3	J	0.2000	.1	UJ						
RADIUM-226	PCI/L				1.0000	4.2	UJ	1.0000	.2	UJ						
URANIUM-235/236	PCI/L				0.2000	.2	U	0.2000	.1	UJ						
THORIUM-232	PCI/L				0.2000	.3	U	0.2000	.1	UJ						
RADIUM-228	PCI/L				3.0000	1.1	U	3.0000	.8	UJ						
THORIUM-228	PCI/L				0.2000	.2	U	0.2000	.2	UJ						
TECHNETIUM-99	PCI/L				15.0000	7.6	U	15.0000	7.8	UJ						

C00849

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_89	EMGW_SYSGEN_90	003245	003560	003736
TASK:	GWMON	GWMON	3.2.4	3.2.4	3.2.4
LAB:	NET	NET	IT	IT	IT
WELL OR BORING NUMBER:	1034	1034	1035	1035	1035
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-APR-90	18-OCT-90	25-MAY-88	11-AUG-88	15-NOV-88
NORTH COORDINATE:	480240.85	480240.85	482200.6	482200.6	482200.6
EAST COORDINATE:	1378410.34	1378410.34	1379710.46	1379710.46	1379710.46
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				337.0000		NV									
AMMONIA	MG/L				0.1200		NV	0.3000		-	0.1000		UJ	0.1000		UJ
CHLORIDE	MG/L	8.0000		NV	9.0000		NV	3.0000		NV	3.0000		J	10.5000		J
FLUORIDE	MG/L				0.4100		NV	0.6200		NV	0.5100		J	0.5400		-
NITRATE	MG/L							0.2000		NV	0.1000		R	0.2960		J
NITRATE, AS NITROGEN	MG/L	0.3900		NV												
NITRATE/NITRITE	MG/L				0.3000		NV									
PH	STD				7.2500		NV									
PHENOLS	MG/L				0.0110		NV	0.0100		NV	0.0200		J	0.0100		UJ
PHOSPHORUS	MG/L				1.7200		NV	4.9000		-	3.5500		J	0.0220		-
SPECIFIC CONDUCTIVITY	UMHOS/CM				978.0000		NV									
SULFATE	MG/L	191.0000		NV	160.0000		NV	45.0000		NV	59.0000		J	50.3000		-
TOTAL DISSOLVED SOLIDS	MG/L				702.0000		NV									
TOTAL KJELDAHL NITROGEN	MG/L													0.4200		J
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	3.0000		NV									
TOTAL ORGANIC HALIDES	MG/L													0.0500		U
TOTAL ORGANIC HALOGENS	MG/L	0.0150		NV	0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L							4.6000		-	0.1000		J	0.4200		J
INORGANICS																
ARSENIC	MG/L							0.2000		U	0.3500		-	0.0020		U
BARIUM	MG/L							0.1250		-	0.0900		-	0.0930		-
CADMIUM	MG/L							0.0050		U	0.0020		U	0.0020		U
CALCIUM	MG/L							81.7000		-	83.9000		-	90.4000		-
CHROMIUM	MG/L							0.0200		U	0.0200		U	0.0200		U
COPPER	MG/L							0.0100		U	0.0100		U	0.0100		U
CYANIDE	MG/L				0.0050		UNV									
IRON	MG/L							0.0600		U	0.0240		-	0.0090		J
LEAD	MG/L							0.0500		UJ	0.0500		U	0.0050		J

000850

5704

SAMPLE NUMBER:		EMGW_SYSGEN_89			EMGW_SYSGEN_90			003245			003560			003736		
LAB:								IT-KNOX			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L							31.7000		-	29.9000		-	30.8000		-
MANGANESE	MG/L							0.3790		-	0.0440		-	0.0280		-
MERCURY	MG/L							0.0002		U	0.0002		UJ	0.0002		U
MOLYBDENUM	MG/L							0.0290		-	0.0200		U	0.0200		U
NICKEL	MG/L							0.0200		U	0.0200		U	0.0200		U
POTASSIUM	MG/L							1.9200		-	0.9580		-	1.1300		-
SELENIUM	MG/L							0.2000		U	0.2000		U	0.0020		UJ
SILVER	MG/L							0.0100		U	0.0100		U	0.0100		U
SODIUM	MG/L							8.6100		-	6.8200		J	6.8000		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	2.2000		NV				3.9000	.6	-	1.0000	.3	-	1.2000	.4	J
URANIUM, TOTAL	UG/L	6.5900		NV				17.0000	3	-	2.0000	1	-	3.0000	1	-
URANIUM-234	PCI/L	2.4500		NV				4.6000	.7	-	1.0000		U	1.2000	.4	J
THORIUM-230	PCI/L	3.6100		NV				4.6000	1	-	1.0000		UJ	1.0000		UJ
RADIUM-226	PCI/L	1.4400		NV				2.0000	.6	-	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L	0.2800		UNV				1.0000		U	1.0000		U	1.0000		UJ
THORIUM-232	PCI/L	1.8100		NV				2.6000	.7	-	1.0000		UJ	1.0000		UJ
THORIUM, TOTAL	UG/L	16.3000		NV				23.7127	.7	NV	3.0000		UJ	4.0000		UJ
RADIUM-228	PCI/L	3.0000		UNV				5.0000	1.6	-	3.0000		U	3.0000		U
THORIUM-228	PCI/L	0.8100		UNV				4.0000	.9	-	1.0000		UJ	1.0000		UJ
NEPTUNIUM-237	PCI/L							1.0000		-	1.0000		UJ	1.0000		UJ
PLUTONIUM-239/240	PCI/L							1.0000		U	1.0000		U	1.0000		UJ
PLUTONIUM-238	PCI/L							1.0000		U	1.0000		U	1.0000		UJ
STRONTIUM-90	PCI/L							5.0000		U	5.0000		R	5.0000		U
TECHNETIUM-99	PCI/L							30.0000		U	30.0000		U	30.3000		UJ
RUTHENIUM-106	PCI/L							150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L							20.0000		R	20.0000		R	20.0000		R
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L	1.0000		UNV												
1,4-DICHLOROBENZENE	UG/L	1.0000		UNV												
2-CHLOROETHYLVINYL ETHER	UG/L	60.0000		UNV	10.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									

SAMPLE NUMBER:		EMGW_SYSGEN_89			EMGW_SYSGEN_90			003245			003560			003736		
LAB:		NET			NET											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV									
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV									
2-BUTANONE	UG/L				2.0000		UNV									
2-HEXANONE	UG/L				2.0000		UNV									
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV									
ACETONE	UG/L				2.0000		UNV									
BENZENE	UG/L	1.0000		UNV	1.0000		UNV									
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV									
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
CARBON DISULFIDE	UG/L				1.0000		UNV									
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROETHANE	UG/L				1.0000		UNV									
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV									
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV									
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
STYRENE	UG/L				1.0000		UNV									
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV									
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV									
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TRICHLOROFLUOROMETHANE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L				2.0000		UNV									
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
XYLENES, TOTAL	UG/L				1.0000		UNV									

000852

R704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003931				066826				111552				111553				EMGW_SYSGEN_91					
TASK:		3.2.4				9.27				20.03.05				20.03.05				GWMON					
LAB:		IT				IT				IT/RSL				IT				IT					
WELL OR BORING NUMBER:		1035				1035				1035				1035				1035					
DEPTH:		-				-				-				-				-					
DATE COLLECTED:		05-FEB-89				06-JAN-90				05-MAY-93				05-MAY-93				02-MAR-90					
NORTH COORDINATE:		482200.6				482200.6				482200.6				482200.6				482200.6					
EAST COORDINATE:		1379710.46				1379710.46				1379710.46				1379710.46				1379710.46					
QA TYPE:		NORMAL				NORMAL				NORMAL				NORMAL				NORMAL					
QC OF:																							
SUFFIX/FILTERFLAG:		NONE-UNF				NONE-UNF				NONE-UNF				NONE-FIL				NONE-UNF					
		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)			
GENERAL CHEMISTRY																							
ALKALINITY AS CACO3	MG/L									309.0000		-											
AMMONIA	MG/L	0.1000		U						0.1000		U											
CHLORIDE	MG/L	2.0000		U						3.9500		-											
FLUORIDE	MG/L	0.3600		J						0.3600		-											
NITRATE	MG/L	0.5800		J						0.9300		J											
PHENOLS	MG/L	0.0100		UJ						0.0100		U											
PHOSPHORUS	MG/L	0.0700		J						0.0700		-											
SULFATE	MG/L	52.4000		-						67.9000		-											
SULFIDE	MG/L									0.5000		U											
TOTAL KJELDAHL NITROGEN	MG/L	0.1600		J						0.2100		-											
TOTAL ORGANIC CARBON	MG/L									1.0000		U											
TOTAL ORGANIC HALIDES	MG/L	0.0500		U						0.0100		U											
TOTAL ORGANIC NITROGEN	MG/L	0.1600		J						0.2100		-											
INORGANICS																							
ALUMINUM	MG/L									0.2240		-		0.3760		U							
ANTIMONY	MG/L									0.0028		UJ		0.0026		UJ							
ARSENIC	MG/L	0.0020		U						0.0010		U		0.0010		U							
BARIUM	MG/L	0.0970		-						0.0911		-		0.0911		-							
BERYLLIUM	MG/L									0.0010		U		0.0010		U							
CADMIUM	MG/L	0.0070		-						0.0020		U		0.0020		U							
CALCIUM	MG/L	92.0000		-						91.6000		-		90.5000		-							
CHROMIUM	MG/L	0.0230		-						0.0040		U		0.0040		U							
COBALT	MG/L									0.0030		U		0.0037		-							
COPPER	MG/L	0.0110		-						0.0022		U		0.0070		U							
CYANIDE	MG/L									0.0010		U		0.0010		UR							
IRON	MG/L	0.0480		-						0.5240		-		0.6180		U							
LEAD	MG/L	0.0020		UJ						0.0010		-		0.0010		U							
MAGNESIUM	MG/L	35.5000		-						33.6000		-		33.3000		-							

000853

SAMPLE NUMBER:		003931		066826		111552		111553		EMGW_SYSGEN_91	
LAB:		IT				IT		IT			
SUFFIX/FILTERFLAG:		NONE-FIL		-		NONE-UNF		NONE-FIL		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
INORGANICS											
MANGANESE	MG/L	0.0360	-			0.0448	-	0.0232	-		
MERCURY	MG/L	0.0002	U			0.0002	U	0.0002	U		
MOLYBDENUM	MG/L	0.0200	U			0.0073	U	0.0084	U		
NICKEL	MG/L	0.0200	U			0.0044	-	0.0030	U		
POTASSIUM	MG/L	1.2600	J			1.3300	-	1.3700	-		
SELENIUM	MG/L	0.0020	UJ			0.0010	UJ	0.0010	UJ		
SILICON	MG/L					6.3600	-	6.6000	-		
SILVER	MG/L	0.0005	U			0.0020	U	0.0020	U		
SODIUM	MG/L	8.5100	-			13.1000	-	13.5000	-		
THALLIUM	MG/L					0.0010	U	0.0010	U		
VANADIUM	MG/L					0.0083	U	0.0083	U		
ZINC	MG/L					0.0044	U	0.0099	U		
PESTICIDES											
4,4'-DDD	UG/L					0.1000	U				
4,4'-DDE	UG/L					0.1000	U				
4,4'-DDT	UG/L					0.1000	UJ				
ALDRIN	UG/L					0.0500	U				
ALPHA-BHC	UG/L					0.0500	UJ				
ALPHA-CHLORDANE	UG/L					0.0500	U				
AROCLOR-1016	UG/L					1.0000	U				
AROCLOR-1221	UG/L					2.0000	U				
AROCLOR-1232	UG/L					1.0000	U				
AROCLOR-1242	UG/L					1.0000	U				
AROCLOR-1248	UG/L					1.0000	U				
AROCLOR-1254	UG/L					1.0000	U				
AROCLOR-1260	UG/L					1.0000	U				
BETA-BHC	UG/L					0.0500	U				
DELTA-BHC	UG/L					0.0500	UJ				
DIELDRIN	UG/L					0.1000	U				
ENDOSULFAN II	UG/L					0.1000	U				
ENDOSULFAN SULFATE	UG/L					0.1000	U				
ENDOSULFAN-I	UG/L					0.0500	U				
ENDRIN	UG/L					0.1000	U				
ENDRIN ALDEHYDE	UG/L					0.1000	U				
ENDRIN KETONE	UG/L					0.1000	U				
GAMMA-BHC (LINDANE)	UG/L					0.0500	UJ				
GAMMA-CHLORDANE	UG/L					0.0500	U				
HEPTACHLOR	UG/L					0.0500	U				
HEPTACHLOR EPOXIDE	UG/L					0.0500	U				
METHOXYCHLOR	UG/L					0.5000	U				
TOXAPHENE	UG/L					5.0000	U				

RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000	U	2.8800	.76	-	0.6700	.26	J	0.8400	.3	-	3.0000	.7	NV	
06/20/94																

SAMPLE NUMBER:	003931	066826	111552	111553	EMGW_SYSGEN_91
LAB:	IT	IT	IT	IT	IT
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	3.0000 1		-	8.1900	.89	J	2.0500	.22	-	2.5500	.27	-	8.8000	2.2	NV
URANIUM-234	PCI/L	1.0000		U	1.6400	.56	R	1.1000	.36	-	1.1100	.36	-	4.0000	.8	NV
THORIUM-230	PCI/L	1.0000		U	2.0300	.77	J	0.2000		UJ	0.7100	.39	-			
RADIUM-226	PCI/L	1.0000		U				1.0000		UJ	1.0000		UJ			
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	0.2000		UJ	0.2000		UJ			
THORIUM-232	PCI/L	1.0000		U				0.2000		UJ	0.2800		UJ			
THORIUM, TOTAL	UG/L	3.0000		U				1.6800	.76	UJ	2.5800	.49	UJ			
RADIUM-228	PCI/L	3.0000		UJ				3.0000		UJ	3.0000	.84	U			
THORIUM-228	PCI/L	1.0000		U	1.9400	.75	-	0.2000		UJ	0.5400		UJ			
NEPTUNIUM-237	PCI/L	1.0000		U				0.5000	.1699	UJ	0.3800		R			
PLUTONIUM-239/240	PCI/L	1.0000		UJ				0.5000		UJ	0.5000	.23	UJ			
PLUTONIUM-238	PCI/L	1.0000		UJ				0.5000	.07782	UJ	0.5000		UJ			
STRONTIUM-90	PCI/L	5.0000		U				1.0000		UJ	1.1000	.52	U			
TECHNETIUM-99	PCI/L	30.0000		UJ	30.0000		U	15.0000		UJ	15.0000		UJ			
RUTHENIUM-106	PCI/L	150.0000		R				150.0000		UJ	150.0000		UJ			
CESIUM-137	PCI/L	20.0000		R				12.0000		UJ	16.1000		UJ			
GROSS ALPHA	PCI/L							7.1700		UJ						
GROSS BETA	PCI/L							4.9500		UJ						
URANIUM-235	PCI/L													1.0000		UNV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							25.0000		UR						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							25.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U						
3-NITROANILINE	UG/L							25.0000		U						

SAMPLE NUMBER:	003931	066826	111552	111553	EMGW_SYSGEN_91
LAB:			IT/MWL		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UJ						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							25.0000		U						
4-NITROPHENOL	UG/L							25.0000		UJ						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BENZOIC ACID	UG/L							50.0000		UR						
BENZYL ALCOHOL	UG/L							10.0000		UJ						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		UJ						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CARBAZOLE	UG/L							10.0000		U						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		UR						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UJ						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L							25.0000		U						
PHENANTHRENE	UG/L							10.0000		U						

SAMPLE NUMBER:		003931			066826			111552			111553			EMGW_SYSGEN_91		
LAB:								IT/MWL								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENOL	MG/L							10.0000		U						
PYRENE	UG/L							10.0000		U						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		UJ						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		UJ						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							2.0000		R						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		UJ						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		UJ						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		UR						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL ACETATE	UG/L							10.0000		UJ						
VINYL CHLORIDE	UG/L							10.0000		UJ						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_92			EMGW_SYSGEN_93			EMGW_SYSGEN_94			GW930707-1			003183	
TASK:		GWMON			GWMON			GWMON			50.03.23			3.2.4	
LAB:		NET			NET			NET			TCT			IT	
WELL OR BORING NUMBER:		1035			1035			1035			1037			1038	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		05-JUN-90			17-SEP-90			02-JAN-91			07-JUL-93			11-MAY-88	
NORTH COORDINATE:		482200.6			482200.6			482200.6			482151.8			482055.43	
EAST COORDINATE:		1379710.46			1379710.46			1379710.46			1379796.71			1379622.49	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				243.0000		NV	291.0000		NV	616.0000		-			
AMMONIA	MG/L							0.4100		NV	0.0300		U	0.2000		J
CHLORIDE	MG/L	7.0000		NV	6.0000		NV	7.0000		NV	23.7000		-	14.9000		-
FLUORIDE	MG/L				0.6500		NV	0.5300		NV	0.4080		-	0.7600		J
NITRATE	MG/L													0.1000		UR
NITRATE, AS NITROGEN	MG/L	0.0200		UNV	0.5100		NV									
NITRATE/NITRITE	MG/L							0.0200		UNV	0.0385		-			
PH	STD				7.1400		NV	7.1600		NV						
PHENOLS	MG/L				0.0050		UNV	0.0050		UNV				0.0200		J
PHOSPHATE	MG/L										0.1930		R			
PHOSPHORUS	MG/L							0.6000		NV				0.0500		UJ
SPECIFIC CONDUCTIVITY	UMHOS/CM				689.0000		NV	657.0000		NV						
SULFATE	MG/L	77.0000		NV	76.0000		NV	97.0000		NV	209.0000		-	200.0000		J
TOTAL DISSOLVED SOLIDS	MG/L				450.0000		NV	500.0000		NV						
TOTAL KJELDAHL NITROGEN	MG/L										0.2000		-			
TOTAL ORGANIC CARBON	MG/L	51.0000		NV	3.0000		NV	5.0000		NV						
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0420		NV						
TOTAL ORGANIC NITROGEN	MG/L										0.2000		-	0.1000		UJ
INORGANICS																
ALUMINUM	MG/L										0.2610		U			
ANTIMONY	MG/L										0.0140		U			
ARSENIC	MG/L										0.0036		-	0.2000		U
BARIUM	MG/L										0.0810		-	0.0500		U
BERYLLIUM	MG/L										0.0050		UR			
CADMIUM	MG/L										0.0050		U	0.0128		-
CALCIUM	MG/L										135.0000		-	135.0000		-
CHROMIUM	MG/L										0.0060		UJ	0.0200		U
COBALT	MG/L										0.0170		U			

000858

5704

SAMPLE NUMBER:		EMGW_SYSGEN_92			EMGW_SYSGEN_93			EMGW_SYSGEN_94			GW930707-1			003183		
LAB:											TCT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COPPER	MG/L										0.0090		U	0.0100		U
CYANIDE	MG/L							0.0050		UNV	0.0050		U			
IRON	MG/L										0.2290		-	0.5300		-
LEAD	MG/L										0.0010		U	0.0500		U
MAGNESIUM	MG/L										78.0000		-	60.9000		-
MANGANESE	MG/L										0.1480		-	0.2860		-
MERCURY	MG/L										0.0003		U	0.0002		UJ
MOLYBDENUM	MG/L										0.0170		UJ	0.0270		U
NICKEL	MG/L										0.0301		J	0.0200		U
POTASSIUM	MG/L										1.7100		-	1.9200		-
SELENIUM	MG/L										0.0050		UJ	0.2000		U
SILICON	MG/L										7.3300		-			
SILVER	MG/L										0.0020		U	0.0100		U
SODIUM	MG/L										47.6000		-	8.7000		-
THALLIUM	MG/L										0.0010		UJ			
VANADIUM	MG/L										0.0240		U			
ZINC	MG/L										0.0130		-			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L	4.4500		NV				1.8400		NV	297.0000	38.2	J	1.4000	.3	-
URANIUM, TOTAL	UG/L	13.3000		NV				4.0400		NV	910.0000		NV	5.0000	1	J
URANIUM-234	PCI/L	5.2600		NV				2.3700		NV	64.9000	11.4	J	1.7000	.3	-
THORIUM-230	PCI/L	2.1200		NV				0.8000		UNV	0.4000	.3	R	1.0000		U
RADIUM-226	PCI/L	1.0000		UNV				1.0000		UNV	1.0000	.5	UJ	1.0000		U
URANIUM-235/236	PCI/L	0.2320		NV				0.2000		UNV	4.9000	2.8	J	1.0000		U
THORIUM-232	PCI/L	0.9930		NV				0.8000		UNV	0.3000	.5	R	1.0000		U
THORIUM, TOTAL	UG/L	8.9600		NV				7.2000		UNV						
RADIUM-228	PCI/L	3.0000		UNV				3.0000		UNV	3.0000	1	U	3.0000		U
THORIUM-228	PCI/L	3.2800		NV				1.4900		NV	0.1000	.5	R	1.0000		U
NEPTUNIUM-237	PCI/L													1.0000		U
PLUTONIUM-239/240	PCI/L													1.0000		U
PLUTONIUM-238	PCI/L													1.0000		U
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L										62.5000	8.7	J	30.0000		U
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
GROSS ALPHA	PCI/L	134.0000		NV				25.8000		NV	390.0000		UNV			
GROSS BETA	PCI/L	148.0000		NV				33.0000		NV	470.0000		UNV			

SEMIVOLATILES

2-CHLOROETHYLVINYL ETHER UG/L 10.0000 UNV 10.0000 UNV

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_92			EMGW_SYSGEN_93			EMGW_SYSGEN_94			GW930707-1			003183		
LAB:					NET			NET								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		J			
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003518			003762			003947			066431			066495		
TASK:		3.2.4			3.2.4			3.2.4			9.25			9.25		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1038			1038			1038			1038			1038		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		22-AUG-88			20-NOV-88			05-FEB-89			18-JUN-89			13-AUG-89		
NORTH COORDINATE:		482055.43			482055.43			482055.43			482055.43			482055.43		
EAST COORDINATE:		1379622.49			1379622.49			1379622.49			1379622.49			1379622.49		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.2000		J	0.1600		J	0.1000		U						
CHLORIDE	MG/L	10.0000		-	2.0000		-	17.5000		-	5.8000		-	11.0000		-
FLUORIDE	MG/L	0.7500		J	0.6400		-	0.4600		J	0.6000		-	0.5000		-
NITRATE	MG/L	0.1000		UJ	0.1000		U	0.1000		J	0.1000		UR	0.2500		-
PHENOLS	MG/L	0.0200		-	0.0100		U	0.0100		UJ						
PHOSPHORUS	MG/L	0.6250		J	2.7600		-	0.2700		J						
SULFATE	MG/L	132.0000		J	132.0000		-	183.0000		-	158.0000		-	155.0000		J
TOTAL KJELDAHL NITROGEN	MG/L				0.1000		UJ	0.2230		J						
TOTAL ORGANIC CARBON	MG/L										1.9600		UJ	1.0000		U
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0500		U	0.0105		J	0.0110		-
TOTAL ORGANIC NITROGEN	MG/L	0.1000		J				0.2230		J						
INORGANICS																
ALUMINUM	MG/L										0.1680		-	0.1490		-
ARSENIC	MG/L	0.0020		U	0.0020		UJ	0.0020		U						
BARIUM	MG/L	0.0450		-	0.0400		-	0.0500		-	0.0431		-	0.0480		-
BERYLLIUM	MG/L										0.0010		U	0.0010		U
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0100		-						
CALCIUM	MG/L	133.0000		-	126.0000		-	147.0000		-	145.0000		-	156.0000		-
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0360		-	0.0390		-	0.0340		-
COBALT	MG/L										0.0100		U	0.0100		U
COPPER	MG/L	0.0100		U	0.0100		U	0.0160		-	0.0100		U	0.0100		U
IRON	MG/L	0.1600		-	0.3760		J	0.1400		-	0.1560		-	0.2950		-
LEAD	MG/L	0.0020		UJ	0.0020		U	0.0020		UJ	0.0020		U	0.0030		-
MAGNESIUM	MG/L	60.6000		-	56.0000		-	66.3000		-	65.4000		-	66.2000		-
MANGANESE	MG/L	0.2040		-	0.2100		-	0.2170		-						
MERCURY	MG/L	0.0002		UJ	0.0002		U	0.0012		-						
MOLYBDENUM	MG/L	0.0430		U	0.0360		-	0.0200		U						
NICKEL	MG/L	0.0200		U	0.0200		U	0.0290		-	0.0226		-	0.0200		U

000861

SAMPLE NUMBER:		003518			003762			003947			066431			066495		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L	2.4000		-	1.7300		-	1.9000		J						
SELENIUM	MG/L	0.0020		UJ	0.0020		UJ	0.0020		UJ						
SILVER	MG/L	0.0100		U	0.0005		U	0.0005		U	0.0139		-	0.0140		-
SODIUM	MG/L	8.3000		-	7.1100		-	8.6600		-						
VANADIUM	MG/L										0.0279		-	0.0260		-
ZINC	MG/L										0.0115		-	0.0160		-
RADIONUCLIDES																
URANIUM-238	PCI/L	1.4000	.3	J	1.2000	.5	J	1.5000	.4	-	2.0000	.5	-	1.3000	.3	J
URANIUM, TOTAL	UG/L	4.0000	1	-	4.5000	.6	J	4.0000	1	-	5.0000	1	-	4.0000	1	-
URANIUM-234	PCI/L	1.9000	.4	J	2.3000	.7	J	1.5000	.4	-	3.1000	.7	-	1.7000	.3	J
THORIUM-230	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		U	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		U						
THORIUM, TOTAL	UG/L	5.0000		UJ	5.0000		UJ	3.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ	3.0000		UJ						
THORIUM-228	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		U	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	0.5000		UJ	1.0000		UJ						
PLUTONIUM-238	PCI/L	1.0000		U	0.5000		UJ	1.0000		UJ						
STRONTIUM-90	PCI/L	5.0000		U	1.2000		UJ	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	26.0000		UJ	30.0000		UJ	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		UJ	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	6.0000		R	20.0000		R						
VOLATILES																
1,1-DICHLOROETHANE	UG/L										5.0000		U	5.0000		U
ACETONE	UG/L										10.0000		U	10.0000		U
METHYLENE CHLORIDE	UG/L										7.0000		U	5.0000		U
TETRACHLOROETHENE	UG/L										5.0000		U	5.0000		U
TOLUENE	UG/L										5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L										5.0000		U	5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066666			066667			111548			111549			EMGW_SYSGEN_101		
TASK:	9.27			9.27			20.03.05			20.03.05			GWMON		
LAB:	IT			WMCO			IT/RSL			IT			NET		
WELL OR BORING NUMBER:	1038			1038			1038			1038			1038		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	21-NOV-89			22-NOV-89			05-MAY-93			05-MAY-93			17-JUL-91		
NORTH COORDINATE:	482055.43			482055.43			482055.43			482055.43			482055.43		
EAST COORDINATE:	1379622.49			1379622.49			1379622.49			1379622.49			1379622.49		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							44.3000		-				427.0000		NV
AMMONIA	MG/L							0.1100		-				0.0900		NV
CHLORIDE	MG/L				16.0000		NV	17.7200		-				15.0000		NV
FLUORIDE	MG/L				0.5500		NV	0.5200		-				0.4700		NV
NITRATE	MG/L				0.3200		NV	0.1600		J						
NITRATE, AS NITROGEN	MG/L													0.0200		UNV
PH	STD													6.9800		NV
PHENOLS	MG/L				0.0100		NV	0.0100		U				0.0050		UNV
PHOSPHORUS	MG/L							0.0300		-				0.1000		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM													1020.0000		NV
SULFATE	MG/L				136.0000		NV	154.4000		-				142.0000		NV
SULFIDE	MG/L							0.5000		U						
TOTAL DISSOLVED SOLIDS	MG/L													540.0000		NV
TOTAL KJELDAHL NITROGEN	MG/L							0.1000		U						
TOTAL ORGANIC CARBON	MG/L				3.0000		NV	1.0000		U				5.0000		NV
TOTAL ORGANIC HALIDES	MG/L				0.0100		UNV	0.0100		U						
TOTAL ORGANIC HALOGENS	MG/L													0.0100		UNV
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U						
INORGANICS																
ALUMINUM	MG/L				0.0700		NV	0.2670		-	0.3770		U	0.2000		UNV
ANTIMONY	MG/L							0.0031		UJ	0.0021		UJ	0.0200		UNV
ARSENIC	MG/L				0.0025		UNV	0.0018		-	0.0020		-	0.0050		UNV
BARIUM	MG/L				0.2000		UNV	0.0425		-	0.0425		-	0.3900		NV
BERYLLIUM	MG/L				0.0100		UNV	0.0010		U	0.0010		U	0.0500		UNV
CADMIUM	MG/L							0.0020		U	0.0020		U	0.0010		UNV
CALCIUM	MG/L				129.0000		NV	145.0000		-	141.0000		-	130.0000		NV
CHROMIUM	MG/L				0.0110		NV	0.0040		U	0.0040		U	0.0221		NV
COBALT	MG/L				0.0250		UNV	0.0030		U	0.0030		U	0.0050		UNV

008863

SAMPLE NUMBER:	066666	066667	111548	111549	EMGW_SYSGEN_101
LAB:		WMCO	IT	IT	NET
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS													
COPPER	MG/L				0.0250		UNV	0.0029		U	0.0020		U	0.0600		NV
CYANIDE	MG/L							0.0010		U	0.0010		UR	0.0050		UNV
IRON	MG/L				10.8000		NV	1.1200		-	1.0300		-	68.7000		NV
LEAD	MG/L				0.0050		UNV	0.0010		U	0.0010		U	0.0388		NV
MAGNESIUM	MG/L				56.0000		NV	62.8000		-	61.4000		-	138.0000		NV
MANGANESE	MG/L				0.4340		NV	0.1440		-	0.1130		-	2.7200		NV
MERCURY	MG/L							0.0002		U	0.0002		U	0.0002		UNV
MOLYBDENUM	MG/L							0.0053		U	0.0050		U	0.0360		NV
NICKEL	MG/L				0.0050		UNV	0.0030		U	0.0030		U	0.0100		UNV
POTASSIUM	MG/L							2.0900		-	2.0800		-	7.4000		NV
SELENIUM	MG/L							0.0010		UJ	0.0010		UJ	0.0050		UNV
SILICON	MG/L							9.2000		-	9.4000		-			
SILVER	MG/L				0.0010		UNV	0.0020		U	0.0020		U	0.0010		UNV
SODIUM	MG/L				13.8000		NV	8.4200		-	8.5200		-	10.0000		NV
THALLIUM	MG/L							0.0010		U	0.0010		U	0.0100		UNV
VANADIUM	MG/L				0.0500		UNV	0.0094		U	0.0091		U	0.0500		UNV
ZINC	MG/L				0.0400		NV	0.0035		U	0.0038		U	0.0200		UNV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L													1.0000		UNV
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U						
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		UJ						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		UJ						
ALPHA-CHLORDANE	UG/L							0.0500		U						
AROCLOR-1016	UG/L							1.0000		U						
AROCLOR-1221	UG/L							2.0000		U						
AROCLOR-1232	UG/L							1.0000		U						
AROCLOR-1242	UG/L							1.0000		U						
AROCLOR-1248	UG/L							1.0000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		UJ						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN ALDEHYDE	UG/L							0.1000		U						

000864

5704

SAMPLE NUMBER:		066666			066667			111548			111549			EMGW_SYSGEN_101		
LAB:								IT/RSL								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		UJ						
GAMMA-CHLORDANE	UG/L							0.0500		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							5.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L	5.9000	1.1	R				1.5600	.47	-	1.6700	.47	-			
URANIUM, TOTAL	UG/L	11.00002		R				4.1100	.44	-	4.9500	.75	-			
URANIUM-234	PCI/L	6.9000	1.2	R				2.3400	.64	-	2.3000	.61	-			
THORIUM-230	PCI/L	1.8000		R				0.2600	.16	J	0.2900	.18	-			
RADIUM-226	PCI/L							1.0000		UJ	1.0000	.12	UJ			
URANIUM-235/236	PCI/L	1.0000		R				0.2000		UJ	0.2000	.06	UJ			
THORIUM-232	PCI/L	3.8000	1.9	R				0.2000		UJ	0.2000		UJ			
THORIUM, TOTAL	UG/L							1.2500	.41	UJ	1.8400	.34	UJ			
RADIUM-228	PCI/L							3.0000		UJ	3.0000		UJ			
THORIUM-228	PCI/L	4.4000	2	R				0.2000		UJ	0.2500		U			
NEPTUNIUM-237	PCI/L							0.1200		R	0.5000	.23	UJ			
PLUTONIUM-239/240	PCI/L							0.5000		UJ	0.5000	.12	UJ			
PLUTONIUM-238	PCI/L							0.5000		UJ	0.5000		UJ			
STRONTIUM-90	PCI/L							1.0000		UJ	1.0800	.54	U			
TECHNETIUM-99	PCI/L	30.0000		R				15.0000		UJ	15.0000		UJ			
RUTHENIUM-106	PCI/L							150.0000		UJ	150.0000		UJ			
CESIUM-137	PCI/L							10.4000		UJ	15.7000		UJ			
GROSS ALPHA	PCI/L							8.9700		UJ						
GROSS BETA	PCI/L							6.2700		UJ						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							25.0000		UR						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLOROETHYLVINYL ETHER	UG/L													10.0000		UNV
2-CHLORONAPHTHALENE	UG/L							10.0000		U						

SAMPLE NUMBER:	066666	066667	111548	111549	EMGW_SYSGEN_101
LAB:			IT/MWL		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							25.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U						
3-NITROANILINE	UG/L							25.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UJ						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							25.0000		U						
4-NITROPHENOL	UG/L							25.0000		UJ						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		UJ						
BENZO(B)FLUORANTHENE	UG/L							10.0000		UJ						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		UJ						
BENZO(K)FLUORANTHENE	UG/L							10.0000		UJ						
BENZOIC ACID	UG/L							50.0000		UR						
BENZYL ALCOHOL	UG/L							10.0000		UJ						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		UJ						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CARBAZOLE	UG/L							10.0000		U						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		UR						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UJ						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		UJ						
ISOPHORONE	UG/L							10.0000		U						

SAMPLE NUMBER:		066666			066667			111548			111549			EMGW_SYSGEN_101		
LAB:								IT/MWL								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L							25.0000		U						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		U						
PYRENE	UG/L							10.0000		U						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U				1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U				1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U				1.0000		UNV
1,1-DICHLOROETHANE	UG/L				2.5000		UNV	10.0000		UJ				1.0000		UNV
1,1-DICHLOROETHENE	UG/L							10.0000		U				1.0000		UNV
1,2-DICHLOROETHANE	UG/L				2.5000		UNV	10.0000		U				1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U				1.0000		UNV
1,2-DICHLOROPROPANE	UG/L							10.0000		U				1.0000		UNV
2-BUTANONE	UG/L							10.0000		UJ				2.0000		UNV
2-HEXANONE	UG/L							10.0000		U				2.0000		UNV
4-METHYL-2-PENTANONE	UG/L							10.0000		U				2.0000		UNV
ACETONE	UG/L				2.5000		UNV	2.0000		R				2.0000		UNV
BENZENE	UG/L							10.0000		U				1.0000		UNV
BROMODICHLOROMETHANE	UG/L							10.0000		U				1.0000		UNV
BROMOFORM	UG/L							10.0000		U				1.0000		UNV
BROMOMETHANE	UG/L							10.0000		U				1.0000		UNV
CARBON DISULFIDE	UG/L							10.0000		UJ				1.0000		UNV
CARBON TETRACHLORIDE	UG/L							10.0000		U				1.0000		UNV
CHLOROBENZENE	UG/L							10.0000		U				1.0000		UNV
CHLOROETHANE	UG/L							10.0000		UJ				1.0000		UNV
CHLOROFORM	UG/L							10.0000		U				1.0000		UNV
CHLOROMETHANE	UG/L							10.0000		UR				1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U				1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L							10.0000		U				1.0000		UNV
ETHYLBENZENE	UG/L							10.0000		U				1.0000		UNV
METHYLENE CHLORIDE	UG/L				2.5000		UNV	10.0000		U				1.0000		UNV
STYRENE	UG/L							10.0000		U				1.0000		UNV
TETRACHLOROETHENE	UG/L				2.5000		UNV	10.0000		U				1.0000		UNV
TOLUENE	UG/L				2.7000		NV	10.0000		U				1.3000		NV
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U				1.0000		UNV
TRICHLOROETHENE	UG/L				2.5000		UNV	10.0000		U				1.0000		UNV
VINYL ACETATE	UG/L							10.0000		UJ				2.0000		UNV
VINYL CHLORIDE	UG/L							10.0000		UJ				1.0000		UNV

000867

SAMPLE NUMBER:	066666			066667			111548			111549			EMGW_SYSGEN_101		
LAB:							IT/RSL						NET		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
XYLENES, TOTAL	UG/L						10.0000		U				1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_102	EMGW_SYSGEN_103	EMGW_SYSGEN_95	EMGW_SYSGEN_96	EMGW_SYSGEN_97
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	WMCO	NET	NET	NET	NET
WELL OR BORING NUMBER:	1038	1038	1038	1038	1038
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-JUL-91	08-OCT-91	15-FEB-90	02-MAY-90	02-AUG-90
NORTH COORDINATE:	482055.43	482055.43	482055.43	482055.43	482055.43
EAST COORDINATE:	1379622.49	1379622.49	1379622.49	1379622.49	1379622.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				438.0000		NV									
AMMONIA	MG/L				0.1900		NV									
CHLORIDE	MG/L				19.0000		NV	16.0000		NV	19.0000		NV	17.0000		NV
FLUORIDE	MG/L				0.5700		NV	0.7900		NV	3.1800		NV	0.9600		NV
NITRATE, AS NITROGEN	MG/L				0.0200		UNV	0.0900		NV	0.0900		NV	0.0200		UNV
PH	STD				7.1700		NV									
PHENOLS	MG/L				0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L				0.2300		NV									
SPECIFIC CONDUCTIVITY	UMHOS/CM				967.0000		NV									
SULFATE	MG/L				164.0000		NV	144.0000		NV	191.0000		NV	174.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L				614.0000		NV									
TOTAL ORGANIC CARBON	MG/L				26.0000		NV	1.0000		UNV	2.0000		NV	2.0000		NV
TOTAL ORGANIC HALOGENS	MG/L				0.0220		NV	0.0160		NV	0.0100		UNV	0.0100		UNV
INORGANICS																
ALUMINUM	MG/L				60.0000		NV	0.0510		NV	39.6000		NV	23.0000		NV
ANTIMONY	MG/L				0.0200		UNV				0.0250		UNV	0.0250		UNV
ARSENIC	MG/L				0.0050		UNV	0.0140		NV	0.0025		UNV	0.0025		UNV
BARIUM	MG/L				0.2000		UNV	0.2000		UNV	0.2000		UNV	0.2760		NV
BERYLLIUM	MG/L				0.0050		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L				0.0010		UNV				0.0010		UNV	0.0010		UNV
CALCIUM	MG/L				140.0000		NV	336.0000		NV	521.0000		NV	100.0000		NV
CHROMIUM	MG/L				0.0020		UNV	0.0190		NV	0.0680		NV	0.0350		NV
COBALT	MG/L				0.0050		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV
COPPER	MG/L				0.0200		UNV	0.0400		NV	0.0250		UNV	0.1280		NV
CYANIDE	MG/L				0.0050		UNV									
IRON	MG/L				0.1300		NV	0.0500		UNV	0.0500		UNV	0.0500		UNV
LEAD	MG/L				0.0609		NV	0.0050		UNV	0.0050		UNV	0.0050		UNV
MAGNESIUM	MG/L				200.0000		NV	105.0000		NV	195.0000		NV	54.0000		NV

SAMPLE NUMBER:		EMGW_SYSGEN_102			EMGW_SYSGEN_103			EMGW_SYSGEN_95			EMGW_SYSGEN_96			EMGW_SYSGEN_97		
LAB:					NET			NET			NET			NET		
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L				3.0100		NV	0.9010		NV	0.1000		NV	1.2900		NV
MERCURY	MG/L				0.0002		UNV				0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L				0.0100		UNV				0.0250		UNV	0.0250		UNV
NICKEL	MG/L				0.0100		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
POTASSIUM	MG/L				2.3000		NV				27.7000		NV	9.9200		NV
SELENIUM	MG/L				0.0050		UNV				0.0025		UNV	0.0025		UNV
SILVER	MG/L				0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L				10.0000		NV	10.5000		NV	12.0000		NV	9.8600		NV
THALLIUM	MG/L				0.0100		UNV				0.0100		UNV	0.0100		UNV
VANADIUM	MG/L				0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC	MG/L				0.0250		NV	0.0290		NV	0.1310		NV	0.1640		NV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L							4.2000		NV	1.6600		NV	3.4700		NV
URANIUM, TOTAL	UG/L	3.7000		NV	4.8000		NV	12.6000		NV	5.0000		NV	10.2000		NV
URANIUM-234	PCI/L							3.9000		NV	2.0900		NV	3.9200		NV
THORIUM-230	PCI/L							1.0000		UNV	0.9800		UNV	0.6300		UNV
RADIUM-226	PCI/L										1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L										0.2700		UNV	0.2820		NV
THORIUM-232	PCI/L										0.9800		UNV	0.6300		UNV
THORIUM, TOTAL	UG/L										8.9000		UNV	5.7000		UNV
RADIUM-228	PCI/L										3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L							1.0000		UNV	0.9800		UNV	1.0300		NV
NEPTUNIUM-237	PCI/L										0.5000		UNV			
PLUTONIUM-239/240	PCI/L										0.5000		UNV			
PLUTONIUM-238	PCI/L										0.5000		UNV			
STRONTIUM-90	PCI/L										1.0000		UNV			
TECHNETIUM-99	PCI/L							16.0000		UNV	15.0000		UNV			
RUTHENIUM-106	PCI/L										150.0000		UNV			
CESIUM-137	PCI/L										13.0000		UNV			
GROSS ALPHA	PCI/L										52.0000		NV			
GROSS BETA	PCI/L										109.0000		NV			
URANIUM-235	PCI/L							1.0000		UNV						
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV									
VOLATILES																

000870

1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
SAMPLE NUMBER:		EMGW_SYSGEN_102			EMGW_SYSGEN_103			EMGW_SYSGEN_95			EMGW_SYSGEN_96			EMGW_SYSGEN_97		
LAB:					NET						NET			NET		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
1,1-DICHLOROETHENE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV				1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
2-BUTANONE	UG/L				2.0000		UNV				2.0000		UNV	10.0000		UNV
2-HEXANONE	UG/L				2.0000		UNV				2.0000		UNV	10.0000		UNV
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV				2.0000		UNV	10.0000		UNV
ACETONE	UG/L				2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
BENZENE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
BROMODICHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
BROMOFORM	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
BROMOMETHANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
CARBON DISULFIDE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
CARBON TETRACHLORIDE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
CHLOROBENZENE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
CHLOROETHANE	UG/L				1.0000		UNV									
CHLOROFORM	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
CHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
ETHYLBENZENE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
METHYLENE CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
STYRENE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
TETRACHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
TOLUENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
TRICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
VINYL ACETATE	UG/L				2.0000		UNV				2.0000		UNV	10.0000		UNV
VINYL CHLORIDE	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV
XYLENES, TOTAL	UG/L				1.0000		UNV				1.0000		UNV	5.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_98			EMGW_SYSGEN_99			GW930104-4			GW930416-14			003179		
TASK:		GWMON			GWMON			RCRA			50.03.23			3.2.4		
LAB:		NET			NET			NET			DATACHEM			IT		
WELL OR BORING NUMBER:		1038			1038			1038			1038			1039		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		01-NOV-90			11-FEB-91			04-JAN-93			16-APR-93			11-MAY-88		
NORTH COORDINATE:		482055.43			482055.43			482055.43			482055.43			480729.12		
EAST COORDINATE:		1379622.49			1379622.49			1379622.49			1379622.49			1379659.11		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	428.0000		NV	415.0000		NV	429.0000		NV	440.0000		-			
ALLYL CHLORIDE	UG/L							5.0000		UNV						
AMMONIA	MG/L	0.4700		NV	0.0600		NV	0.1700		NV	0.0500		U	0.1000		UJ
BICARBONATE ALKALINITY	MG/L							540.0000		NV	540.0000		-			
CARBONATE ALKALINITY	MG/L							3.0000		UNV	3.0000		U			
CHLORIDE	MG/L	19.0000		NV	16.0000		NV	16.0000		NV	16.0000		-	1095.0000		-
FLUORIDE	MG/L	0.4500		NV	0.5000		NV	0.4600		NV	0.5900		-	0.4600		J
NITRATE	MG/L							0.0200		UNV				0.1000		UR
NITRATE, AS NITROGEN	MG/L				0.1000		NV									
NITRATE/NITRITE	MG/L	0.0300		NV							0.1400		U			
NITRITE, AS NITROGEN	MG/L							0.0200		UNV						
PH	STD	6.9600		NV	7.2600		NV	7.0900		NV	7.2000		-			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0100		U	0.0200		J
PHOSPHORUS	MG/L	2.1400		NV	1.2400		NV	0.1000		UNV	0.0500		U	0.0500		UJ
SPECIFIC CONDUCTIVITY	UMHOS/CM	1090.0000		NV	1020.0000		NV	1150.0000		NV	1000.0000		-			
SULFATE	MG/L	172.0000		NV	165.0000		NV	176.0000		NV	130.0000		-	119.0000		J
TOTAL DISSOLVED SOLIDS	MG/L	782.0000		NV	636.0000		NV	652.0000		NV	660.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										0.3000		-			
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	26.0000		NV	10.0000		NV	1.0000		UJ			
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV	0.0100		UJ			
TOTAL ORGANIC HALOGENS	MG/L	0.0780		NV	0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L													0.1000		UJ
TOTAL SOLIDS	MG/L							650.0000		NV	680.0000		-			
INORGANICS																
ALUMINUM	MG/L	34.6000		NV	0.5000		UNV	0.4200		NV	0.0174		U			
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0200		UNV	0.0450		U			
ARSENIC	MG/L	0.0025		UNV	0.0820		NV	0.0050		UNV	0.0010		U	0.2000		U
BARIUM	MG/L	0.5390		NV	0.2000		UNV	0.2000		UNV	0.0347		-	0.4590		-

000872

5704

SAMPLE NUMBER:		EMGW_SYSGEN_98			EMGW_SYSGEN_99			GW930104-4			GW930416-14			003179		
LAB:		IT			IT			FERMCO Laboratory			FERMCO			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L	3.3400		NV	2.9600		NV							1.0000		U
THORIUM-230	PCI/L				0.7530		NV	0.6000	.2	NV				1.0000		U
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV	1.0000	.2	UNV				1.0000		U
URANIUM-235/236	PCI/L	0.8270		NV	0.2080		NV							1.0000		U
THORIUM-232	PCI/L				0.2810		NV	0.2000	.1	UNV				1.0000		U
THORIUM, TOTAL	UG/L				2.5300		NV	1.4000		NV						
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV	3.0000	.9	UNV				3.0000		U
THORIUM-228	PCI/L				1.9500		NV	0.2000	.1	UNV				1.0000		U
NEPTUNIUM-237	PCI/L	0.5000		UNV	0.5000		UNV							1.0000		U
PLUTONIUM-239/240	PCI/L	0.5000		UNV	0.5000		UNV							1.0000		U
PLUTONIUM-238	PCI/L	0.5000		UNV	0.5000		UNV							1.0000		U
STRONTIUM-90	PCI/L	1.0000		UNV										5.0000		U
TECHNETIUM-99	PCI/L	18.0000		UNV	15.0000		UNV							30.0000		U
RUTHENIUM-106	PCI/L	150.0000		UNV	150.0000		UNV							150.0000		R
CESIUM-137	PCI/L	10.0000		UNV	8.8000		UNV							20.0000		R
GROSS ALPHA	PCI/L	93.4000		NV	64.8000		NV	4.1000	2.2	NV						
GROSS BETA	PCI/L	103.0000		NV	56.7000		NV	5.3000	2.1	NV						
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV						
CUMENE	UG/L							1.0000		UNV						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV				10.0000		U			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U			
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			

SAMPLE NUMBER:		EMGW_SYSGEN_98		EMGW_SYSGEN_99		GW930104-4		GW930416-14		003179	
LAB:		NET		NET		NET		DATACHEM			
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
VOLATILES											
CHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	U		
CHLOROFORM	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
CHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	UJ		
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
METHYLENE CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	U		
STYRENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRICHLOROFLUOROMETHANE	UG/L					1.0000	UNV				
VINYL ACETATE	UG/L	2.0000	UNV	2.0000	UNV	10.0000	UNV				
VINYL CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	5.0000	UNV	10.0000	UJ		
XYLENES, TOTAL	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		

000874

8704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003491			003733			003928			111990			EMGW_SYSGEN_107		
TASK:		3.2.4			3.2.4			3.2.4			20.03.05			GWMON		
LAB:		IT			IT			IT			IT/MWL			IT		
WELL OR BORING NUMBER:		1039			1039			1039			1039			1039		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		10-AUG-88			20-NOV-88			05-FEB-89			28-APR-93			23-APR-90		
NORTH COORDINATE:		480729.12			480729.12			480729.12			480729.12			480729.12		
EAST COORDINATE:		1379659.11			1379659.11			1379659.11			1379659.11			1379659.11		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										250.0000		-			
AMMONIA	MG/L	0.3000		-	0.1000		UJ	0.1000		U	0.1000		U			
CHLORIDE	MG/L	860.0000		-	750.0000		J	700.0000		-	360.2300		-			
FLUORIDE	MG/L	3.5000		-	0.3500		-	0.1600		J	0.3300		-			
NITRATE	MG/L	0.1300		J	0.1000		UJ	0.1000		UJ	0.1000		UR			
PHENOLS	MG/L	0.0500		U	0.0100		UJ	0.0110		J	0.0100		U			
PHOSPHORUS	MG/L				0.0280		J	0.0500		J	0.0400		-			
SULFATE	MG/L	130.0000		-	144.0000		J	131.0000		-	123.4000		-			
SULFIDE	MG/L										0.5000		U			
TOTAL KJELDAHL NITROGEN	MG/L	21.0000		-	0.3000		J	0.1030		J	0.1300		-			
TOTAL ORGANIC CARBON	MG/L										1.2200		-			
TOTAL ORGANIC HALIDES	MG/L				0.0500		U	0.0500		U	0.0275		-			
TOTAL ORGANIC NITROGEN	MG/L				0.3000		J	0.1030		J	0.1300		-			
INORGANICS																
ALUMINUM	MG/L										0.0711		U			
ANTIMONY	MG/L										0.0010		U			
ARSENIC	MG/L	0.0100		U	0.0020		UJ	0.0020		U	0.0010		U			
BARIUM	MG/L	0.3000		-	0.2540		-	0.1910		-	0.1260		-			
BERYLLIUM	MG/L										0.0028		U			
CADMIUM	MG/L	0.0050		U	0.0020		U	0.0100		-	0.0020		U			
CALCIUM	MG/L	240.0000		-	186.0000		-	168.0000		-	118.0000		-			
CHROMIUM	MG/L	0.0100		U	0.0200		U	0.0350		-	0.0040		U			
COBALT	MG/L										0.0030		U			
COPPER	MG/L	0.0300		U	0.0100		U	0.0160		-	0.0037		U			
CYANIDE	MG/L										0.0010		U			
IRON	MG/L	1.8000		-	0.1220		-	0.0970		-	0.5090		-			
LEAD	MG/L	0.0050		U	0.0030		J	0.0020		UJ	0.0010		U			
MAGNESIUM	MG/L	100.0000		-	71.2000		-	70.0000		-	44.9000		-			

SAMPLE NUMBER:		003491		003733		003928		111990		EMGW_SYSGEN_107	
LAB:		IT		IT		IT		IT			
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MANGANESE	MG/L	0.7900	-	0.6430	-	0.4810	-	0.4180	-		
MERCURY	MG/L	0.0003	U	0.0002	U	0.0004	-	0.0002	U		
MOLYBDENUM	MG/L	0.0500	U	0.0200	U	0.0200	U	0.0051	-		
NICKEL	MG/L	0.0400	U	0.0200	U	0.0230	-	0.0037	-		
POTASSIUM	MG/L	5.0000	U	0.6710	-	0.7920	J	0.6540	U		
SELENIUM	MG/L	0.0050	U	0.0020	UJ	0.0020	UJ	0.0010	U		
SILICON	MG/L							5.6800	-		
SILVER	MG/L	0.0100	U	0.0005	U	0.0005	U	0.0020	U		
SODIUM	MG/L	350.0000	-	245.0000	-	218.0000	-	157.0000	-		
THALLIUM	MG/L							0.0010	U		
VANADIUM	MG/L							0.0118	U		
ZINC	MG/L							0.0035	-		
PESTICIDES											
4,4'-DDD	UG/L							0.1000	U		
4,4'-DDE	UG/L							0.1000	U		
4,4'-DDT	UG/L							0.1000	U		
ALDRIN	UG/L							0.0500	U		
ALPHA-BHC	UG/L							0.0500	U		
ALPHA-CHLORDANE	UG/L							0.0500	U		
AROCLOR-1016	UG/L							1.0000	U		
AROCLOR-1221	UG/L							2.0000	U		
AROCLOR-1232	UG/L							1.0000	U		
AROCLOR-1242	UG/L							1.0000	U		
AROCLOR-1248	UG/L							1.0000	U		
AROCLOR-1254	UG/L							1.0000	U		
AROCLOR-1260	UG/L							1.0000	U		
BETA-BHC	UG/L							0.0500	U		
DELTA-BHC	UG/L							0.0500	U		
DIELDRIN	UG/L							0.1000	U		
ENDOSULFAN II	UG/L							0.1000	U		
ENDOSULFAN SULFATE	UG/L							0.1000	U		
ENDOSULFAN-I	UG/L							0.0500	U		
ENDRIN	UG/L							0.1000	U		
ENDRIN ALDEHYDE	UG/L							0.1000	U		
ENDRIN KETONE	UG/L							0.1000	U		
GAMMA-BHC (LINDANE)	UG/L							0.0500	U		
GAMMA-CHLORDANE	UG/L							0.0500	U		
HEPTACHLOR	UG/L							0.0500	U		
HEPTACHLOR EPOXIDE	UG/L							0.0500	U		
METHOXYCHLOR	UG/L							0.5000	U		
TOXAPHENE	UG/L							5.0000	U		

RADIONUCLIDES																		
URANIUM-238	PCI/L	1.0000		UJ	0.3000		UJ	1.8000	.5	-	0.4160	.192	J	0.3110		NV
SAMPLE NUMBER:		003491			003733			003928			111990			EMGW_SYSGEN_107		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	1.0000	1	-	1.8000	.3	J	1.0000	1	-	1.0000		U	1.0300		NV
URANIUM-234	PCI/L	1.0000		UJ	0.5000	.3	J	1.4000	.5	-	0.3910	.187	J	0.2000		UNV
THORIUM-230	PCI/L	1.0000		UJ	0.7000		UJ	1.4000	.5	-	0.2510	.155	J	1.4600		NV
RADIUM-226	PCI/L	1.0000		U	1.0000	.1	UJ	1.0000		U	1.0000		UJ	1.0000		UNV
URANIUM-235/236	PCI/L	1.0000		UJ	0.3000		UJ	1.0000		U	0.2000		UJ	0.2240		NV
THORIUM-232	PCI/L	1.0000		UJ	0.7000		UJ	1.0000		U	0.2000		UJ	0.2800		UNV
THORIUM, TOTAL	UG/L	12.0000		UJ	6.2000		UJ	4.0000		U	0.5000	.37	UJ	2.6000		UNV
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ	3.0000		UJ	3.0000		UJ	3.0000		UNV
THORIUM-228	PCI/L	1.0000		UJ	0.7000		UJ	1.0000		U	0.2090		UJ	0.2800		UNV
NEPTUNIUM-237	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		U	0.5000	.137	U	0.5000		UNV
PLUTONIUM-239/240	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		UJ	0.5000		UJ	0.5000		UNV
PLUTONIUM-238	PCI/L	1.0000		UJ	0.5000		UJ	1.0000		UJ	0.5000		UJ	0.5000		UNV
STRONTIUM-90	PCI/L	5.0000		U	1.2000		UJ	5.0000		U	1.0000	.515	U	8.5800		NV
TECHNETIUM-99	PCI/L	30.0000		U	26.0000		UJ	30.0000		UJ	15.0000		UJ	17.0000		UNV
RUTHENIUM-106	PCI/L	150.0000		R	86.0000		R	150.0000		R	150.0000		UJ	150.0000		UNV
CESIUM-137	PCI/L	20.0000		R	10.0000		R	20.0000		R	16.0000		UJ	8.7000		UNV
GROSS ALPHA	PCI/L										13.5000		UJ			
GROSS BETA	PCI/L										10.2000		UJ			
URANIUM-235	PCI/L													0.0150		NV
URANIUM-236	PCI/L													0.0020		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										25.0000		U			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										25.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										10.0000		UJ			

SAMPLE NUMBER:		003491			003733			003928			111990			EMGW_SYSGEN_107		
LAB:											IT-KNOX					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L										25.0000		UJ			
4,6-DINITRO-2-METHYLPHENOL	UG/L										25.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										25.0000		UR			
4-NITROPHENOL	UG/L										25.0000		UR			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U			
BENZO(K)FLUORANTHENE	UG/L										10.0000		UJ			
BENZOIC ACID	UG/L										50.0000		U			
BENZYL ALCOHOL	UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		U			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CARBAZOLE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		UJ			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		UJ			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		U			
HEXACHLOROBUTADIENE	UG/L										10.0000		UJ			
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		U			
HEXACHLOROETHANE	UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L										10.0000		U			
ISOPHORONE	UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										10.0000		U			
NAPHTHALENE	UG/L										10.0000		U			
NITROBENZENE	UG/L										10.0000		U			
P-CHLOROANILINE	UG/L										10.0000		UR			
PENTACHLOROPHENOL	UG/L										25.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_107D	EMGW_SYSGEN_108	EMGW_SYSGEN_109	EMGW_SYSGEN_110	EMGW_SYSGEN_111
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	IT	NET	NET	NET	NET
WELL OR BORING NUMBER:	1039	1039	1039	1039	1039
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-APR-90	26-JUN-90	16-AUG-90	20-SEP-90	11-DEC-90
NORTH COORDINATE:	480729.12	480729.12	480729.12	480729.12	480729.12
EAST COORDINATE:	1379659.11	1379659.11	1379659.11	1379659.11	1379659.11
QA TYPE:	DUPLICATE	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:	EMGW_SYSGEN_107				
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										203.0000		NV	212.0000		NV
AMMONIA	MG/L													0.0200		UNV
CHLORIDE	MG/L				271.0000		NV	270.0000		NV	297.0000		NV	270.0000		NV
FLUORIDE	MG/L							0.3400		NV	0.5100		NV	0.3400		NV
NITRATE, AS NITROGEN	MG/L				0.0200		UNV	0.0200		UNV	0.0200		UNV			
NITRATE/NITRITE	MG/L													0.0200		UNV
PH	STD										7.2200		NV	7.2200		NV
PHENOLS	MG/L							0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L													0.1000		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM										1380.0000		NV	1440.0000		NV
SULFATE	MG/L				154.0000		NV	133.0000		NV	136.0000		NV	96.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L										715.0000		NV	796.0000		NV
TOTAL ORGANIC CARBON	MG/L				1.0000		NV	2.0000		NV	4.0000		NV	4.0000		NV
TOTAL ORGANIC HALOGENS	MG/L				0.0100		UNV	0.0420		NV	0.0100		UNV	0.0220		NV
INORGANICS																
ALUMINUM	MG/L							0.5000		UNV						
ANTIMONY	MG/L							0.0250		UNV						
ARSENIC	MG/L							0.0025		UNV						
BARIUM	MG/L							0.2000		UNV						
BERYLLIUM	MG/L							0.0100		UNV						
CADMIUM	MG/L							0.0010		UNV						
CALCIUM	MG/L							67.6000		NV						
CHROMIUM	MG/L							0.0050		UNV						
COBALT	MG/L							0.0250		UNV						
COPPER	MG/L							0.0250		UNV						
CYANIDE	MG/L													0.0050		UNV
IRON	MG/L							3.1900		NV						
LEAD	MG/L							0.0050		UNV						

008879

SAMPLE NUMBER:		EMGW_SYSGEN_107D			EMGW_SYSGEN_108			EMGW_SYSGEN_109			EMGW_SYSGEN_110			EMGW_SYSGEN_111		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L							36.8000		NV						
MANGANESE	MG/L							0.4020		NV						
MERCURY	MG/L							0.0002		UNV						
MOLYBDENUM	MG/L							0.0250		UNV						
NICKEL	MG/L							0.0050		UNV						
POTASSIUM	MG/L							1.2000		NV						
SELENIUM	MG/L							0.0025		UNV						
SILVER	MG/L							0.0010		UNV						
SODIUM	MG/L							182.0000		NV						
THALLIUM	MG/L							0.0100		UNV						
VANADIUM	MG/L							0.0500		UNV						
ZINC	MG/L							0.0330		NV						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	0.3670		NV	0.4160		NV	3.9100		NV				0.5750		NV
URANIUM, TOTAL	UG/L	1.0300		NV	1.2400		NV	1.4300		NV				1.5400		NV
URANIUM-234	PCI/L	0.2300		NV	0.3700		NV	3.0200		NV				0.7440		NV
THORIUM-230	PCI/L	0.2500		UNV	0.2470		NV	0.4500		UNV				0.3220		NV
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
URANIUM-235/236	PCI/L	0.2100		UNV	0.2100		UNV	0.2700		UNV				0.2000		UNV
THORIUM-232	PCI/L	0.2500		UNV	0.2340		NV	0.4500		UNV				0.2500		UNV
THORIUM, TOTAL	UG/L	2.2000		UNV	2.1100		NV	4.0000		UNV				2.3000		UNV
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV	3.0000		UNV				3.0000		UNV
THORIUM-228	PCI/L	0.2500		UNV	0.9480		NV	0.4990		NV				0.4930		NV
GROSS ALPHA	PCI/L				20.0000		UNV							11.0000		UNV
GROSS BETA	PCI/L				97.0000		UNV							7.3000		UNV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_111D			EMGW_SYSGEN_112			GW930415-1			003218			003219		
TASK:		GWMON			GWMON			50.03.23			3.2.4			3.2.4		
LAB:		NET			NET			DATACHEM			IT			IT		
WELL OR BORING NUMBER:		1039			1039			1039			1040			1040		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		11-DEC-90			04-MAR-91			15-APR-93			21-MAY-88			21-MAY-88		
NORTH COORDINATE:		480729.12			480729.12			480729.12			485833.34			485833.34		
EAST COORDINATE:		1379659.11			1379659.11			1379659.11			1376759.84			1376759.84		
QA TYPE:		DUPLICATE			NORMAL			NORMAL			NORMAL			DUPLICATE		
QC OF:		EMGW_SYSGEN_111												003218		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	214.0000		NV	213.0000		NV	250.0000		-						
AMMONIA	MG/L	0.0200		UNV	0.0200		UNV	0.0500		U	2.9000		J	3.2000		J
BICARBONATE ALKALINITY	MG/L							320.0000		-						
CARBONATE ALKALINITY	MG/L							3.0000		U						
CHLORIDE	MG/L	270.0000		NV	324.0000		NV	350.0000		-	41.3000		J	46.1000		J
FLUORIDE	MG/L	0.4200		NV	0.4000		NV	0.5000		-	0.5100		J	0.7200		J
NITRATE	MG/L										0.1000		J	0.1000		J
NITRATE, AS NITROGEN	MG/L				0.0800		NV									
NITRATE/NITRITE	MG/L	0.0200		UNV				0.0300		U						
PH	STD	7.2600		NV	7.3000		NV	7.8000		-						
PHENOLS	MG/L	0.0060		NV	0.0050		UNV	0.0100		U	0.0200		J	0.0100		UJ
PHOSPHORUS	MG/L	0.0600		NV	0.1000		UNV	0.0600		-	0.1700		J	0.1700		J
SPECIFIC CONDUCTIVITY	UMHOS/CM	1430.0000		NV	1480.0000		NV	1600.0000		-						
SULFATE	MG/L	94.0000		NV	121.0000		NV	88.0000		-	2.0000		UJ	5.0000		J
TOTAL DISSOLVED SOLIDS	MG/L	754.0000		NV	664.0000		NV	880.0000		-						
TOTAL KJELDAHL NITROGEN	MG/L							0.1000		-						
TOTAL ORGANIC CARBON	MG/L	3.0000		NV	7.0000		NV	1.0000		UJ						
TOTAL ORGANIC HALIDES	MG/L							0.0200		J						
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0210		NV									
TOTAL ORGANIC NITROGEN	MG/L										1.3000		J	1.4000		J
TOTAL SOLIDS	MG/L							900.0000		-						
INORGANICS																
ALUMINUM	MG/L				0.5000		UNV	0.0140		U						
ANTIMONY	MG/L				0.0250		UNV	0.0450		U						
ARSENIC	MG/L				0.0025		UNV	0.0010		U	0.2000		U	0.2000		U
BARIUM	MG/L				0.2000		UNV	0.1160		-	0.4440		-	0.4590		-
BERYLLIUM	MG/L				0.0100		UNV	0.0010		U						
CADMIUM	MG/L				0.0010		UNV	0.0030		U	0.0050		U	0.0050		U

SAMPLE NUMBER:		EMGW_SYSGEN_111D			EMGW_SYSGEN_112			GW930415-1			003218			003219		
LAB:					NET			DATACHEM			IT			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CALCIUM	MG/L				91.0000		NV	120.0000		-	76.4000		-	78.6000		-
CHROMIUM	MG/L				0.0180		NV	0.0040		U	0.0200		U	0.0200		U
COBALT	MG/L				0.0250		UNV	0.0060		U						
COPPER	MG/L				0.0250		UNV	0.0040		U	0.0100		U	0.0100		U
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0100		U						
IRON	MG/L				1.5100		NV	0.4710		-	2.6100		-	3.4400		-
LEAD	MG/L				0.0050		UNV	0.0010		UJ	0.0500		-	0.0500		U
MAGNESIUM	MG/L				42.5000		NV	44.5000		-	23.3000		-	25.1000		-
MANGANESE	MG/L				0.9040		NV	0.3170		-	0.0200		U	0.0210		-
MERCURY	MG/L				0.0002		UNV	0.0002		U	0.0002		U	0.0002		U
MOLYBDENUM	MG/L				0.0250		UNV				0.0200		U	0.0240		-
NICKEL	MG/L				0.0130		NV	0.0190		U	0.0200		U	0.0200		U
POTASSIUM	MG/L				1.0000		UNV	0.4320		U	1.3100		-	1.1800		-
SELENIUM	MG/L				0.0025		UNV	0.0020		UR	0.2000		U	0.2000		U
SILVER	MG/L				0.0010		UNV	0.0030		UJ	0.0210		-	0.0100		U
SODIUM	MG/L				139.0000		NV	148.0000		-	29.8000		-	30.9000		-
THALLIUM	MG/L				0.0100		UNV	0.0010		UJ						
VANADIUM	MG/L				0.0500		UNV	0.0040		U						
ZINC	MG/L				0.0200		UNV	0.0060		U						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	0.8040		NV	0.4900		UNV				1.0000		U	1.0000		U
URANIUM, TOTAL	UG/L	1.4500		NV	1.3600		NV				1.0000		U	1.0000		U
URANIUM-234	PCI/L	1.0100		NV	0.4900		UNV				1.0000		U	1.0000		U
THORIUM-230	PCI/L	0.3300		UNV	0.2220		NV				1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV				1.0000		UJ	1.0000	.5	UJ
URANIUM-235/236	PCI/L	0.2800		UNV	0.4900		UNV				1.0000		U	1.0000		U
THORIUM-232	PCI/L	0.3300		UNV	0.2000		UNV				1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L	3.0000		UNV	1.7000		UNV									
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV				4.5000	1.5	-	3.0000		U
THORIUM-228	PCI/L	1.1300		NV	0.7220		NV				1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L				0.5000		UNV				1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L				0.5000		UNV				1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L				0.5000		UNV				1.0000		U	1.0000		U
STRONTIUM-90	PCI/L										5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L				20.0000		UNV				30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L				150.0000		UNV				150.0000		R	150.0000		R
CESIUM-137	PCI/L				8.7000		UNV				20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	17.0000		UNV	11.0000		UNV									
GROSS BETA	PCI/L	9.5000		UNV	11.0000		UNV									

000882

5704

SAMPLE NUMBER:		EMGW_SYSGEN_111D			EMGW_SYSGEN_112			GW930415-1			003218			003219		
LAB:		IT			IT											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,1-DICHLOROETHANE	UG/L	1.2000		NV	1.2000		NV	10.0000		U						
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		U						
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		U						
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		U						
ACETONE	UG/L	2.0000		UNV	18.9000		NV	10.0000		U						
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV									
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UJ						
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U						

000883

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003572	003778	003964	30928-1040-02	30928F1040-02
TASK:	3.2.4	3.2.4	3.2.4	50.03.23	50.03.23
LAB:	IT	IT	IT	TCT	TCT
WELL OR BORING NUMBER:	1040	1040	1040	1040	1040
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-AUG-88	07-DEC-88	15-MAR-89	28-SEP-93	28-SEP-93
NORTH COORDINATE:	485833.34	485833.34	485833.34	485833.34	485833.34
EAST COORDINATE:	1376759.84	1376759.84	1376759.84	1376759.84	1376759.84
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										313.0000		-			
AMMONIA	MG/L	4.5000		-	4.3400		J	3.9000		-	4.2000		-			
CHLORIDE	MG/L	27.5000		-	7.5000		-	50.0000		-	45.0000		-			
FLUORIDE	MG/L	1.2000		-	0.6100		-	0.5000		-	0.4700		-			
NITRATE	MG/L	0.1000		U	0.0120		J	0.0200		R						
NITRATE/NITRITE	MG/L										0.0200		U			
PHENOLS	MG/L	0.0100		-	0.0170		-	0.0070		-	0.0050		U			
PHOSPHATE	MG/L										0.1910		-			
PHOSPHORUS	MG/L	0.1350		-	0.0200		U	0.1200		-						
SULFATE	MG/L	2.0000		UJ	68.2000		-	2.0000		U	0.5000		U			
SULFIDE	MG/L										1.0000		UJ			
TOTAL KJELDAHL NITROGEN	MG/L				4.3400		J	4.2000		-	3.8700		-			
TOTAL ORGANIC CARBON	MG/L										2.2000		-			
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0500		U	28.8000		J			
TOTAL ORGANIC NITROGEN	MG/L	5.5000		J	0.1000		U	0.3000		-	0.1000		U			
INORGANICS																
ALUMINUM	MG/L													0.0900		U
ANTIMONY	MG/L													0.0110		U
ARSENIC	MG/L	0.1220		-	0.0150		-	0.0150		-				0.0201		-
BARIUM	MG/L	0.4220		-	0.4460		-	0.4500		-				0.4510		-
BERYLLIUM	MG/L													0.0040		R
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0050		U				0.0050		U
CALCIUM	MG/L	77.0000		-	75.7000		-	84.0000		-				80.2000		-
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0200		-				0.0060		UJ
COBALT	MG/L													0.0070		U
COPPER	MG/L	0.0100		U	0.0100		U	0.0100		U				0.0080		UJ
CYANIDE	MG/L													0.0050		U
IRON	MG/L	3.3100		-	3.2000		-	3.2000		J				3.5800		-

000884

9204

SAMPLE NUMBER:		003572			003778			003964			30928-1040-02			30928F1040-02		
LAB:		IT			IT			IT						TCT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L	0.0020		UJ	0.0020		UJ	0.0020		U				0.0010		U
MAGNESIUM	MG/L	23.3000		-	23.3000		-	24.0000		-				23.1000		-
MANGANESE	MG/L	0.0180		-	0.0160		-	0.0210		-				0.0240		J
MERCURY	MG/L	0.0002		UJ	0.0002		U	0.0002		UJ				0.0001		U
MOLYBDENUM	MG/L	0.0200		U	0.0280		-	0.0100		U				0.0270		U
NICKEL	MG/L	0.0200		U	0.0200		U	0.0300		U				0.0186		U
POTASSIUM	MG/L	1.7000		-	11.2000		-	1.7000		-				1.0500		-
SELENIUM	MG/L	0.0020		U	0.0020		UJ	0.0050		U				0.0020		UJ
SILICON	MG/L													6.3800		J
SILVER	MG/L	0.0100		U	0.0005		UJ	0.0100		U				0.0020		U
SODIUM	MG/L	29.5000		-	29.1000		-	31.0000		-				29.9000		J
THALLIUM	MG/L													0.0010		UJ
VANADIUM	MG/L													0.0120		U
ZINC	MG/L													0.0104		-
MISC																
DIBROMOMETHANE	UG/L										10.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U						
URANIUM, TOTAL	UG/L	0.1000		U	0.1000		U	0.1000		UJ						
URANIUM-234	PCI/L	1.1000	.3	-	1.0000		U	1.0000		U						
THORIUM-230	PCI/L	1.0000		U	1.0000		U	1.0000		U						
RADIUM-226	PCI/L	1.0000		U	1.0000		U	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U						
THORIUM-232	PCI/L	1.0000		U	1.0000		U	1.0000		U						
THORIUM, TOTAL	UG/L	3.0000		U	2.0000		U	6.0000		UJ						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		U						
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.0000		U						
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U	1.0000		U						
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U						
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			

SAMPLE NUMBER:	003572	003778	003964	30928-1040-02	30928F1040-02
LAB:				TCT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		R			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		UJ			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		UJ			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		UNV			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30928F1040-03	30928F1040-05	30928U1040-02	30928U1040-03	30928U1040-04
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	CORE	FERMCO	TCT	CORE	FERMCO
WELL OR BORING NUMBER:	1040	1040	1040	1040	1040
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-SEP-93	28-SEP-93	28-SEP-93	28-SEP-93	28-SEP-93
NORTH COORDINATE:	485833.34	485833.34	485833.34	485833.34	485833.34
EAST COORDINATE:	1376759.84	1376759.84	1376759.84	1376759.84	1376759.84
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L							0.0900		U						
ANTIMONY	MG/L							0.0110		U						
ARSENIC	MG/L							0.0194		-						
BARIUM	MG/L							0.4540		-						
BERYLLIUM	MG/L							0.0040		R						
CADMIUM	MG/L							0.0050		U						
CALCIUM	MG/L							81.1000		-						
CHROMIUM	MG/L							0.0060		UJ						
COBALT	MG/L							0.0070		U						
COPPER	MG/L							0.0294		J						
CYANIDE	MG/L							0.0050		U						
IRON	MG/L							3.6500		-						
LEAD	MG/L							0.0016		-						
MAGNESIUM	MG/L							23.7000		-						
MANGANESE	MG/L							0.0178		UJ						
MERCURY	MG/L							0.0001		U						
MOLYBDENUM	MG/L							0.0190		U						
NICKEL	MG/L							0.0110		U						
POTASSIUM	MG/L							1.0700		-						
SELENIUM	MG/L							0.0020		UJ						
SILICON	MG/L							6.4000		J						
SILVER	MG/L							0.0031		J						
SODIUM	MG/L							30.8000		J						
THALLIUM	MG/L							0.0010		UJ						
VANADIUM	MG/L							0.0120		U						
ZINC	MG/L							0.0192		-						
RADIONUCLIDES																
URANIUM-238	PCI/L	0.2000	1.6	UJ							0.2000	1.6	UJ			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003572	003778	003964	30928-1040-02	30928F1040-02
TASK:	3.2.4	3.2.4	3.2.4	50.03.23	50.03.23
LAB:	IT	IT	IT	TCT	TCT
WELL OR BORING NUMBER:	1040	1040	1040	1040	1040
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-AUG-88	07-DEC-88	15-MAR-89	28-SEP-93	28-SEP-93
NORTH COORDINATE:	485833.34	485833.34	485833.34	485833.34	485833.34
EAST COORDINATE:	1376759.84	1376759.84	1376759.84	1376759.84	1376759.84
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										313.0000		-			
AMMONIA	MG/L	4.5000		-	4.3400		J	3.9000		-	4.2000		-			
CHLORIDE	MG/L	27.5000		-	7.5000		-	50.0000		-	45.0000		-			
FLUORIDE	MG/L	1.2000		-	0.6100		-	0.5000		-	0.4700		-			
NITRATE	MG/L	0.1000		U	0.0120		J	0.0200		R						
NITRATE/NITRITE	MG/L										0.0200		U			
PHENOLS	MG/L	0.0100		-	0.0170		-	0.0070		-	0.0050		U			
PHOSPHATE	MG/L										0.1910		-			
PHOSPHORUS	MG/L	0.1350		-	0.0200		U	0.1200		-						
SULFATE	MG/L	2.0000		UJ	68.2000		-	2.0000		U	0.5000		U			
SULFIDE	MG/L										1.0000		UJ			
TOTAL KJELDAHL NITROGEN	MG/L				4.3400		J	4.2000		-	3.8700		-			
TOTAL ORGANIC CARBON	MG/L										2.2000		-			
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0500		U	28.8000		J			
TOTAL ORGANIC NITROGEN	MG/L	5.5000		J	0.1000		U	0.3000		-	0.1000		U			
INORGANICS																
ALUMINUM	MG/L													0.0900		U
ANTIMONY	MG/L													0.0110		U
ARSENIC	MG/L	0.1220		-	0.0150		-	0.0150		-				0.0201		-
BARIUM	MG/L	0.4220		-	0.4460		-	0.4500		-				0.4510		-
BERYLLIUM	MG/L													0.0040		R
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0050		U				0.0050		U
CALCIUM	MG/L	77.0000		-	75.7000		-	84.0000		-				80.2000		-
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0200		-				0.0060		UJ
COBALT	MG/L													0.0070		U
COPPER	MG/L	0.0100		U	0.0100		U	0.0100		U				0.0080		UJ
CYANIDE	MG/L													0.0050		U
IRON	MG/L	3.3100		-	3.2000		-	3.2000		J				3.5800		-

000888

5704

SAMPLE NUMBER:	003572			003778			003964			30928-1040-02			30928F1040-02		
LAB:										TCT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1-DICHLOROETHENE UG/L										10.0000		U			
1,2-DICHLOROETHANE UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL) UG/L										10.0000		U			
1,2-DICHLOROPROPANE UG/L										10.0000		U			
2-BUTANONE UG/L										10.0000		R			
2-HEXANONE UG/L										10.0000		U			
4-METHYL-2-PENTANONE UG/L										10.0000		U			
ACETONE UG/L										10.0000		UJ			
BENZENE UG/L										10.0000		U			
BROMODICHLOROMETHANE UG/L										10.0000		U			
BROMOFORM UG/L										10.0000		U			
BROMOMETHANE UG/L										10.0000		U			
CARBON DISULFIDE UG/L										10.0000		U			
CARBON TETRACHLORIDE UG/L										10.0000		UJ			
CHLOROBENZENE UG/L										10.0000		U			
CHLOROETHANE UG/L										10.0000		U			
CHLOROFORM UG/L										10.0000		U			
CHLOROMETHANE UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
DIBROMOCHLOROMETHANE UG/L										10.0000		UNV			
ETHYLBENZENE UG/L										10.0000		U			
METHYLENE CHLORIDE UG/L										10.0000		U			
STYRENE UG/L										10.0000		U			
TETRACHLOROETHENE UG/L										10.0000		U			
TOLUENE UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
TRICHLOROETHENE UG/L										10.0000		U			
VINYL ACETATE UG/L										10.0000		U			
VINYL CHLORIDE UG/L										10.0000		U			
XYLENES, TOTAL UG/L										10.0000		U			

000889

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30928F1040-03	30928F1040-05	30928U1040-02	30928U1040-03	30928U1040-04
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	CORE	FERMCO	TCT	CORE	FERMCO
WELL OR BORING NUMBER:	1040	1040	1040	1040	1040
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-SEP-93	28-SEP-93	28-SEP-93	28-SEP-93	28-SEP-93
NORTH COORDINATE:	485833.34	485833.34	485833.34	485833.34	485833.34
EAST COORDINATE:	1376759.84	1376759.84	1376759.84	1376759.84	1376759.84
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L							0.0900		U						
ANTIMONY	MG/L							0.0110		U						
ARSENIC	MG/L							0.0194		-						
BARIUM	MG/L							0.4540		-						
BERYLLIUM	MG/L							0.0040		R						
CADMIUM	MG/L							0.0050		U						
CALCIUM	MG/L							81.1000		-						
CHROMIUM	MG/L							0.0060		UJ						
COBALT	MG/L							0.0070		U						
COPPER	MG/L							0.0294		J						
CYANIDE	MG/L							0.0050		U						
IRON	MG/L							3.6500		-						
LEAD	MG/L							0.0016		-						
MAGNESIUM	MG/L							23.7000		-						
MANGANESE	MG/L							0.0178		UJ						
MERCURY	MG/L							0.0001		U						
MOLYBDENUM	MG/L							0.0190		U						
NICKEL	MG/L							0.0110		U						
POTASSIUM	MG/L							1.0700		-						
SELENIUM	MG/L							0.0020		UJ						
SILICON	MG/L							6.4000		J						
SILVER	MG/L							0.0031		J						
SODIUM	MG/L							30.8000		J						
THALLIUM	MG/L							0.0010		UJ						
VANADIUM	MG/L							0.0120		U						
ZINC	MG/L							0.0192		-						
RADIONUCLIDES																
URANIUM-238	PCI/L	0.2000	1.6	UJ							0.2000	1.6	UJ			

000890

6704

SAMPLE NUMBER:		30928F1040-03			30928F1040-05			30928U1040-02			30928U1040-03			30928U1040-04		
LAB:		CORE									CORE					
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	0.1000	.1	U	0.1000		UNV				0.1000	.1	U			
URANIUM-234	PCI/L	0.2000	.2	UJ							0.2000	.2	UJ			
THORIUM-230	PCI/L	0.2000	.2	UJ							0.2000	.2	UJ			
RADIUM-226	PCI/L	1.0000	.4	UJ							1.0000	.4	UJ			
URANIUM-235/236	PCI/L	0.2000	.5	UJ							0.2000	.5	UJ			
THORIUM-232	PCI/L	0.2000	.3	UJ							0.2000	.3	UJ			
RADIUM-228	PCI/L	3.0000	1	U							3.0000	.9	U			
THORIUM-228	PCI/L	0.2000	.5	UJ							0.2000	.5	UJ			
TECHNETIUM-99	PCI/L	15.0000	6.9	U							15.0000	7.6	U			
GROSS ALPHA	PCI/L													370.0000		UNV
GROSS BETA	PCI/L													500.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30928U1040-05	EMGW_SYSGEN_116	003180	003490	003732
TASK:	50.03.23	GWMON	3.2.4	3.2.4	3.2.4
LAB:	FERMCO	NET	IT	IT	IT
WELL OR BORING NUMBER:	1040	1040	1041	1041	1041
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-SEP-93	18-OCT-90	11-MAY-88	10-AUG-88	17-NOV-88
NORTH COORDINATE:	485833.34	485833.34	480550.15	480550.15	480550.15
EAST COORDINATE:	1376759.84	1376759.84	1379798.68	1379798.68	1379798.68
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				299.0000		NV									
AMMONIA	MG/L				4.1600		NV	0.1000		UJ	0.3000		U	0.1200		J
CHLORIDE	MG/L				48.0000		NV	495.0000		-	170.0000		-	259.0000		J
FLUORIDE	MG/L				0.4000		NV	0.4100		J	1.8000		-	0.5000		-
NITRATE	MG/L							0.1000		UR	0.1200		J	0.1000		R
NITRATE/NITRITE	MG/L				0.0200		UNV									
PH	STD				7.3000		NV									
PHENOLS	MG/L				0.0050		UNV	0.0200		J	0.0500		U	0.0140		J
PHOSPHORUS	MG/L				0.2800		NV	0.2700		J				0.5360		J
SPECIFIC CONDUCTIVITY	UMHOS/CM				684.0000		NV									
SULFATE	MG/L				8.0000		NV	113.0000		J	56.0000		-	116.0000		J
TOTAL DISSOLVED SOLIDS	MG/L				387.0000		NV									
TOTAL KJELDAHL NITROGEN	MG/L										15.0000		U	0.8200		J
TOTAL ORGANIC CARBON	MG/L				3.0000		NV									
TOTAL ORGANIC HALIDES	MG/L													0.0500		U
TOTAL ORGANIC HALOGENS	MG/L				0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L							0.1000		UJ				0.7000		-
INORGANICS																
ARSENIC	MG/L							0.2000		U	0.0100		U	0.0020		U
BARIUM	MG/L							0.1130		-	0.2000		-	0.1800		-
CADMIUM	MG/L							0.0050		U	0.0050		U	0.0020		U
CALCIUM	MG/L							172.0000		-	150.0000		-	196.0000		-
CHROMIUM	MG/L							0.0200		U	0.0100		U	0.0200		U
COPPER	MG/L							0.0170		-	0.0300		U	0.0100		U
CYANIDE	MG/L				0.0050		UNV									
IRON	MG/L							0.2100		-	0.1000		U	0.5720		-
LEAD	MG/L							0.0500		U	0.0050		U	0.0020		J
MAGNESIUM	MG/L							70.5000		-	61.0000		-	72.2000		-

000892

5704

SAMPLE NUMBER:		30928U1040-05			EMGW_SYSGEN_116			003180			003490			003732		
LAB:								IT			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							0.6140		-	0.3600		-	0.6700		-
MERCURY	MG/L							0.0002		UJ	0.0003		U	0.0002		U
MOLYBDENUM	MG/L							0.0200		U	0.0500		U	0.0300		-
NICKEL	MG/L							0.0200		U	0.0400		U	0.0260		-
POTASSIUM	MG/L							0.4800		-	5.0000		U	0.4900		-
SELENIUM	MG/L							0.0200		U	0.0050		U	0.0020		UJ
SILVER	MG/L							0.0600		U	0.0100		U	0.0005		U
SODIUM	MG/L							28.8000		-	26.0000		-	32.9000		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L							2.4000	.4	-	1.7000	.5	J	2.1000	.6	-
URANIUM, TOTAL	UG/L	0.1000		UNV				9.0000	1	J	6.0000	1	-	6.0000	1	-
URANIUM-234	PCI/L							1.8000	.3	-	2.1000	.5	J	1.4000	.4	-
THORIUM-230	PCI/L							1.6000	.6	-	1.0000		UJ	1.0000		U
RADIUM-226	PCI/L							1.0000		U	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L							1.0000		U	1.0000		UJ	1.0000		U
THORIUM-232	PCI/L							1.0000		U	1.0000		UJ	1.0000		U
THORIUM, TOTAL	UG/L										10.0000		UJ	2.0000		U
RADIUM-228	PCI/L							3.8000	1.4	-	3.0000		U	3.0000		U
THORIUM-228	PCI/L							1.2000	.5	-	1.0000		UJ	1.0000		U
NEPTUNIUM-237	PCI/L							1.0000		U	1.0000		UJ	1.0000		U
PLUTONIUM-239/240	PCI/L							1.0000		U	1.0000		UJ	1.0000		UJ
PLUTONIUM-238	PCI/L							1.0000		U	1.0000		UJ	1.0000		UJ
STRONTIUM-90	PCI/L							5.0000		U	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L							30.0000		U	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L							150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L							20.0000		R	20.0000		R	20.0000		R
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV									
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV									
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV									
1,1-DICHLOROETHANE	UG/L				1.0000		UNV									
1,1-DICHLOROETHENE	UG/L				1.0000		UNV									
1,2-DICHLOROETHANE	UG/L				1.0000		UNV									

000893

SAMPLE NUMBER:	30928U1040-05	EMGW_SYSGEN_116	003180	003490	003732
LAB:		NET			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV									
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV									
2-BUTANONE	UG/L				2.0000		UNV									
2-HEXANONE	UG/L				2.0000		UNV									
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV									
ACETONE	UG/L				2.0000		UNV									
BENZENE	UG/L				1.0000		UNV									
BROMODICHLOROMETHANE	UG/L				1.0000		UNV									
BROMOFORM	UG/L				1.0000		UNV									
BROMOMETHANE	UG/L				1.0000		UNV									
CARBON DISULFIDE	UG/L				1.0000		UNV									
CARBON TETRACHLORIDE	UG/L				1.0000		UNV									
CHLOROBENZENE	UG/L				1.0000		UNV									
CHLOROETHANE	UG/L				1.0000		UNV									
CHLOROFORM	UG/L				1.0000		UNV									
CHLOROMETHANE	UG/L				1.0000		UNV									
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV									
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV									
ETHYLBENZENE	UG/L				1.0000		UNV									
METHYLENE CHLORIDE	UG/L				1.0000		UNV									
STYRENE	UG/L				1.0000		UNV									
TETRACHLOROETHENE	UG/L				1.0000		UNV									
TOLUENE	UG/L				1.0000		UNV									
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV									
TRICHLOROETHENE	UG/L				1.0000		UNV									
VINYL ACETATE	UG/L				2.0000		UNV									
VINYL CHLORIDE	UG/L				1.0000		UNV									
XYLENES, TOTAL	UG/L				1.0000		UNV									

000894

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003924			116220			116221			EMGW_SYSGEN_117			EMGW_SYSGEN_118		
TASK:		3.2.4			20.03.05			20.03.05			GWMON			GWMON		
LAB:		IT			IT/RSL			IT			IT			NET		
WELL OR BORING NUMBER:		1041			1041			1041			1041			1041		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		01-MAR-89			05-MAY-93			05-MAY-93			26-MAR-90			28-JUN-90		
NORTH COORDINATE:		480550.15			480550.15			480550.15			480550.15			480550.15		
EAST COORDINATE:		1379798.68			1379798.68			1379798.68			1379798.68			1379798.68		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				437.9000		-									
AMMONIA	MG/L	0.2000		-	0.1000		U									
CHLORIDE	MG/L	230.0000		-	44.0700		-							154.0000		NV
FLUORIDE	MG/L	0.3000		-	0.2300		-									
NITRATE	MG/L	0.0200		R	0.1000		UR									
NITRATE, AS NITROGEN	MG/L													0.0200		UNV
PHENOLS	MG/L	0.0050		U	0.0100		U									
PHOSPHORUS	MG/L	0.0200		-	0.2200		-									
SULFATE	MG/L	76.0000		-	72.1000		-							158.0000		NV
SULFIDE	MG/L				0.5000		U									
TOTAL KJELDAHL NITROGEN	MG/L	0.5000		U	0.1800		-									
TOTAL ORGANIC CARBON	MG/L				1.0400		-							5.0000		NV
TOTAL ORGANIC HALIDES	MG/L				0.0302		J									
TOTAL ORGANIC HALOGENS	MG/L													0.0220		NV
TOTAL ORGANIC NITROGEN	MG/L	0.3000		U	0.1800		-									
INORGANICS																
ALUMINUM	MG/L				8.6000		-	0.0872		U						
ANTIMONY	MG/L				0.0029		UJ	0.0037		UJ						
ARSENIC	MG/L	0.0030		U	0.0041		-	0.0010		U						
BARIUM	MG/L	0.1400		-	0.1080		-	0.0972		-						
BERYLLIUM	MG/L				0.0019		-	0.0010		U						
CADMIUM	MG/L	0.0070		-	0.0020		U	0.0020		U						
CALCIUM	MG/L	180.0000		-	170.0000		-	127.0000		-						
CHROMIUM	MG/L	0.0300		-	0.0323		-	0.0040		U						
COBALT	MG/L				0.0094		-	0.0030		U						
COPPER	MG/L	0.0100		U	0.0201		U	0.0020		U						
CYANIDE	MG/L				0.0010		U	0.0010		UR						
IRON	MG/L	0.0400		-	17.6000		-	0.0316		U						

000895

SAMPLE NUMBER:		003924		116220		116221		EMGW_SYSGEN_117		EMGW_SYSGEN_118	
LAB:		IT		IT		IT					
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-UNF		NONE-FIL		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
LEAD	MG/L	0.0020	U	0.0105	-	0.0010	U				
MAGNESIUM	MG/L	70.0000	-	65.1000	-	55.5000	-				
MANGANESE	MG/L	0.6100	-	1.2100	-	0.1760	-				
MERCURY	MG/L	0.0002	UJ	0.0002	U	0.0002	U				
MOLYBDENUM	MG/L	0.0200	-	0.0061	U	0.0070	U				
NICKEL	MG/L	0.0300	U	0.0293	-	0.0118	-				
POTASSIUM	MG/L	0.5000	-	2.9900	-	0.4340	U				
SELENIUM	MG/L	0.0050	U	0.0010	UJ	0.0010	U				
SILICON	MG/L			17.9000	-	5.3700	-				
SILVER	MG/L	0.0100	U	0.0020	U	0.0020	U				
SODIUM	MG/L	41.0000	-	21.5000	-	29.8000	-				
THALLIUM	MG/L			0.0010	U	0.0010	U				
VANADIUM	MG/L			0.0274	-	0.0081	U				
ZINC	MG/L			0.0642	-	0.0021	U				
PESTICIDES											
4,4'-DDD	UG/L			0.1000	U						
4,4'-DDE	UG/L			0.1000	U						
4,4'-DDT	UG/L			0.1000	UJ						
ALDRIN	UG/L			0.0500	U						
ALPHA-BHC	UG/L			0.0500	UJ						
ALPHA-CHLORDANE	UG/L			0.0500	U						
AROCLOR-1016	UG/L			1.0000	U						
AROCLOR-1221	UG/L			2.0000	U						
AROCLOR-1232	UG/L			1.0000	U						
AROCLOR-1242	UG/L			1.0000	U						
AROCLOR-1248	UG/L			1.0000	U						
AROCLOR-1254	UG/L			1.0000	U						
AROCLOR-1260	UG/L			1.0000	U						
BETA-BHC	UG/L			0.0500	U						
DELTA-BHC	UG/L			0.0500	UJ						
DIELDRIN	UG/L			0.1000	U						
ENDOSULFAN II	UG/L			0.1000	U						
ENDOSULFAN SULFATE	UG/L			0.1000	U						
ENDOSULFAN-I	UG/L			0.0500	U						
ENDRIN	UG/L			0.1000	U						
ENDRIN ALDEHYDE	UG/L			0.1000	U						
ENDRIN KETONE	UG/L			0.1000	U						
GAMMA-BHC (LINDANE)	UG/L			0.0500	UJ						
GAMMA-CHLORDANE	UG/L			0.0500	U						
HEPTACHLOR	UG/L			0.0500	U						
HEPTACHLOR EPOXIDE	UG/L			0.0500	U						
METHOXYCHLOR	UG/L			0.5000	U						
TOXAPHENE	UG/L			5.0000	U						

SAMPLE NUMBER:	003924	116220	116221	EMGW_SYSGEN_117	EMGW_SYSGEN_118
LAB:		IT/MWL			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				25.0000		U									
4-NITROPHENOL	UG/L				25.0000		UJ									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		UR									
BENZYL ALCOHOL	UG/L				10.0000		UJ									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				2.0000		J									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UR									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		U									
PENTACHLOROPHENOL	UG/L				25.0000		U									
PHENANTHRENE	UG/L				10.0000		U									
PHENOL	MG/L				10.0000		U									
PYRENE	UG/L				10.0000		U									

000897

VOLATILES

1,1,1-TRICHLOROETHANE	UG/L				10.0000		U						1.0000		UNV

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 220

SAMPLE NUMBER:	003924	116220	116221	EMGW_SYSGEN_117	EMGW_SYSGEN_118
LAB:		IT/RSL			NET
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U							1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U							1.0000		UNV
1,1-DICHLOROETHANE	UG/L				10.0000		U							5.0000		NV
1,1-DICHLOROETHENE	UG/L				10.0000		U							1.0000		UNV
1,2-DICHLOROETHANE	UG/L				10.0000		U							1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U							1.0000		UNV
1,2-DICHLOROPROPANE	UG/L				10.0000		U							1.0000		UNV
2-BUTANONE	UG/L				10.0000		U							2.0000		UNV
2-HEXANONE	UG/L				10.0000		U							2.0000		UNV
4-METHYL-2-PENTANONE	UG/L				10.0000		U							2.0000		UNV
ACETONE	UG/L				10.0000		U							2.0000		UNV
BENZENE	UG/L				10.0000		U							1.0000		UNV
BROMODICHLOROMETHANE	UG/L				10.0000		U							1.0000		UNV
BROMOFORM	UG/L				10.0000		U							1.0000		UNV
BROMOMETHANE	UG/L				10.0000		U							1.0000		UNV
CARBON DISULFIDE	UG/L				10.0000		UJ							1.0000		UNV
CARBON TETRACHLORIDE	UG/L				10.0000		U							1.0000		UNV
CHLOROBENZENE	UG/L				10.0000		U							1.0000		UNV
CHLOROETHANE	UG/L				10.0000		UJ									
CHLOROFORM	UG/L				10.0000		U							1.0000		UNV
CHLOROMETHANE	UG/L				10.0000		UJ							1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U							1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L				10.0000		U							1.0000		UNV
ETHYLBENZENE	UG/L				10.0000		U							1.0000		UNV
METHYLENE CHLORIDE	UG/L				10.0000		U							1.0000		UNV
STYRENE	UG/L				10.0000		U							1.0000		UNV
TETRACHLOROETHENE	UG/L				10.0000		U							1.0000		UNV
TOLUENE	UG/L				10.0000		U							1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U							1.0000		UNV
TRICHLOROETHENE	UG/L				10.0000		U							1.0000		UNV
VINYL ACETATE	UG/L				10.0000		U							2.0000		UNV
VINYL CHLORIDE	UG/L				10.0000		U							1.0000		UNV
XYLENES, TOTAL	UG/L				10.0000		U							1.0000		UNV

000898

5704

SAMPLE NUMBER:		EMGW_SYSGEN_119			EMGW_SYSGEN_120			EMGW_SYSGEN_121			003182			003416		
LAB:								NET			IT			IT/RSL		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CYANIDE	MG/L				0.0100		UNV	0.0050		UNV						
IRON	MG/L							1.5600		NV	1.6000		-	0.3000		-
LEAD	MG/L							0.0460		NV	0.0500		U	0.0050		U
MAGNESIUM	MG/L							150.0000		NV	30.1000		-	36.0000		-
MANGANESE	MG/L							3.8300		NV	0.2050		-	0.1200		-
MERCURY	MG/L							0.0002		UNV	0.0002		UJ	0.0003		U
MOLYBDENUM	MG/L							0.0250		UNV	0.0230		U	0.0500		U
NICKEL	MG/L							0.0850		NV	0.0200		U	0.0400		U
POTASSIUM	MG/L							7.2600		NV	0.9100		-	5.0000		U
SELENIUM	MG/L							0.0025		UNV	0.2000		U	0.0050		U
SILVER	MG/L							0.0010		UNV	0.0100		U	0.0100		U
SODIUM	MG/L							38.8000		NV	25.6000		-	26.0000		-
THALLIUM	MG/L							0.0100		UNV				0.5000		U
VANADIUM	MG/L							0.4130		NV				0.0500		U
ZINC	MG/L							0.1370		NV				0.1400		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L				4.2500		NV	4.0700		NV	1.0000		U	2.2000	.5	-
URANIUM, TOTAL	UG/L				3.1600		NV	12.4000		NV	7.0000	1	J	6.0000	1	-
URANIUM-234	PCI/L				4.0800		NV	3.7300		NV	1.0000		U	2.5000	.5	-
THORIUM-230	PCI/L				0.4300		UNV	0.3200		UNV	1.0000		U	1.0000		U
RADIUM-226	PCI/L				1.0000		UNV	1.0000		UNV	1.0000		U	1.0000		UJ
URANIUM-235/236	PCI/L				0.2200		NV	0.2550		NV	1.0000		U	1.0000		U
THORIUM-232	PCI/L				0.4300		UNV	0.3200		UNV	1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L				3.9000		UNV	2.9000		UNV				3.0000		U
RADIUM-228	PCI/L				3.0000		UNV	3.0000		UNV	3.0000		U	3.4000	1.2	J
THORIUM-228	PCI/L				0.7410		NV	0.3200		UNV	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L							0.5000		UNV	1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L							0.5000		UNV	1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L							0.5000		UNV	1.0000		U	1.0000		U
STRONTIUM-90	PCI/L										5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L							19.0000		UNV	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L							150.0000		UNV	150.0000		R	150.0000		R
CESIUM-137	PCI/L							7.9000		UNV	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L				100.0000		NV	45.1000		NV						
GROSS BETA	PCI/L				102.0000		NV	39.6000		NV						
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003723			003922			110889			EMGW_SYSGEN_122			EMGW_SYSGEN_123		
TASK:		3.2.4			3.2.4			20.03.05			GWMON			GWMON		
LAB:		IT			IT			IT/MWL			IT			NET		
WELL OR BORING NUMBER:		1042			1042			1042			1042			1042		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		17-NOV-88			01-MAR-89			22-APR-93			26-MAR-90			26-JUN-90		
NORTH COORDINATE:		480388.77			480388.77			480388.77			480388.77			480388.77		
EAST COORDINATE:		1379543.28			1379543.28			1379543.28			1379543.28			1379543.28		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							245.0000		J						
AMMONIA	MG/L	0.1000		UJ	0.2000		-	0.1000		U						
CHLORIDE	MG/L	57.5000		J	37.0000		U	88.0900		-				70.0000		NV
FLUORIDE	MG/L	0.4800		-	0.2000		-	0.2000		-						
NITRATE	MG/L	0.1000		R	0.4900		J	0.1000		UR						
NITRATE, AS NITROGEN	MG/L													0.0200		UNV
PHENOLS	MG/L	0.0140		J	0.0250		-	0.0100		U						
PHOSPHORUS	MG/L	0.8720		J	0.1000		-	0.0200		U						
SULFATE	MG/L	246.0000		J	100.0000		-	138.0000		-				124.0000		NV
SULFIDE	MG/L							0.5000		U						
TOTAL KJELDAHL NITROGEN	MG/L	0.5100		J	0.3000		U	0.1000		U						
TOTAL ORGANIC CARBON	MG/L							1.4000		-				2.0000		NV
TOTAL ORGANIC HALIDES	MG/L	0.0500		U				0.0100		U						
TOTAL ORGANIC HALOGENS	MG/L													0.0150		NV
TOTAL ORGANIC NITROGEN	MG/L	0.5100		-	0.1000		U	0.1000		U						
INORGANICS																
ALUMINUM	MG/L							0.2520		U						
ANTIMONY	MG/L							0.0050		U						
ARSENIC	MG/L	0.0020		U	0.0030		U	0.0020		UJ						
BARIUM	MG/L	0.2480		-	0.0870		-	0.0781		-						
BERYLLIUM	MG/L							0.0020		U						
CADMIUM	MG/L	0.0020		U	0.0050		U	0.0050		U						
CALCIUM	MG/L	109.0000		-	120.0000		-	138.0000		J						
CHROMIUM	MG/L	0.0200		U	0.0200		-	0.0100		U						
COBALT	MG/L							0.0100		U						
COPPER	MG/L	0.0100		U	0.0100		U	0.0100		U						
CYANIDE	MG/L							0.0020		U						
IRON	MG/L	0.5670		-	0.0500		-	0.0200		U						

000900

5704

SAMPLE NUMBER:		003723		003922		110889		EMGW_SYSGEN_122		EMGW_SYSGEN_123	
LAB:		IT		IT		IT					
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		-		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
INORGANICS											
LEAD	MG/L	0.0040	J	0.0020	U	0.0020	UJ				
MAGNESIUM	MG/L	37.4000	-	47.0000	-	56.6000	J				
MANGANESE	MG/L	0.1040	-	0.0290	-	0.0319	-				
MERCURY	MG/L	0.0002	U	0.0002	UJ	0.0002	U				
MOLYBDENUM	MG/L	0.0220	-	0.0200	-	0.0200	U				
NICKEL	MG/L	0.0200	U	0.0300	U	0.0200	U				
POTASSIUM	MG/L	0.7200	-	0.6700	-	0.7530	-				
SELENIUM	MG/L	0.0020	UJ	0.0050	U	0.0020	U				
SILICON	MG/L					5.2800	-				
SILVER	MG/L	0.0005	U	0.0100	U	0.0100	U				
SODIUM	MG/L	23.8000	-	14.0000	-	20.8000	J				
THALLIUM	MG/L					0.0020	UJ				
VANADIUM	MG/L					0.0100	U				
ZINC	MG/L					0.0050	U				
PESTICIDES											
4,4'-DDD	UG/L					0.1000	U				
4,4'-DDE	UG/L					0.1000	U				
4,4'-DDT	UG/L					0.1000	UJ				
ALDRIN	UG/L					0.0500	U				
ALPHA-BHC	UG/L					0.0500	UJ				
ALPHA-CHLORDANE	UG/L					0.0500	U				
AROCLOR-1016	UG/L					1.0000	U				
AROCLOR-1221	UG/L					2.0000	U				
AROCLOR-1232	UG/L					1.0000	U				
AROCLOR-1242	UG/L					1.0000	U				
AROCLOR-1248	UG/L					1.0000	U				
AROCLOR-1254	UG/L					1.0000	U				
AROCLOR-1260	UG/L					1.0000	U				
BETA-BHC	UG/L					0.0500	U				
DELTA-BHC	UG/L					0.0500	UJ				
DIELDRIN	UG/L					0.1000	U				
ENDOSULFAN II	UG/L					0.1000	U				
ENDOSULFAN SULFATE	UG/L					0.1000	U				
ENDOSULFAN-I	UG/L					0.0500	U				
ENDRIN	UG/L					0.1000	U				
ENDRIN ALDEHYDE	UG/L					0.1000	U				
ENDRIN KETONE	UG/L					0.1000	U				
GAMMA-BHC (LINDANE)	UG/L					0.0500	UJ				
GAMMA-CHLORDANE	UG/L					0.0500	U				
HEPTACHLOR	UG/L					0.0500	U				
HEPTACHLOR EPOXIDE	UG/L					0.0500	U				
METHOXYCHLOR	UG/L					0.5000	U				
TOXAPHENE	UG/L					5.0000	U				

SAMPLE NUMBER:		003723			003922			110889			EMGW_SYSGEN_122			EMGW_SYSGEN_123		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	3.2000	.7	-	9.7000	1.5	-	11.8100	2.64	J	10.0000		NV	8.2200		NV
URANIUM, TOTAL	UG/L	11.00002		-	30.0000	5	-	30.4000	4.2	-	30.0000		NV	24.5000		NV
URANIUM-234	PCI/L	3.3000	.7	-	9.5000	1.5	R	11.0200	2.47	J	10.2000		NV	7.3300		NV
THORIUM-230	PCI/L	1.0000		U	1.0000		U	0.2000		UJ				0.2200		UNV
RADIUM-226	PCI/L	1.0000		U	1.0000		U	1.0000	.13	UJ				2.3000		NV
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	0.7000	.26	J	0.5790		NV	0.2570		NV
THORIUM-232	PCI/L	1.0000		U	1.0000		U	0.2000		UJ				0.2200		UNV
THORIUM, TOTAL	UG/L	5.0000		U	3.0000		U	1.5500	.26	UJ				2.0000		UNV
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ	3.0000		UJ				3.0000		UNV
THORIUM-228	PCI/L	1.0000		U	1.0000		U	0.2400		UJ				1.0500		NV
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	0.1000		R						
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		R	0.5000		UJ						
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		R	0.5000		UJ						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	3.4500	.7	J						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	15.0000		UJ						
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		UJ						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	17.8000		UJ						
GROSS ALPHA	PCI/L							27.1200	11.6	J				16.0000		UNV
GROSS BETA	PCI/L							8.5300		UJ				14.2000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							25.0000		UR						
2,4-DINITROTOLUENE	UG/L							10.0000		UJ						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-BENZYL-4-CHLOROPHENOL	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							25.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U						
3-NITROANILINE	UG/L							25.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UR						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						

SAMPLE NUMBER:		003723			003922			110889			EMGW_SYSGEN_122			EMGW_SYSGEN_123		
LAB:								IT/MWL								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							25.0000		U						
4-NITROPHENOL	UG/L							25.0000		UJ						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BENZOIC ACID	UG/L							50.0000		UR						
BENZYL ALCOHOL	UG/L							10.0000		UJ						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CARBAZOLE	UG/L							10.0000		U						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		UJ						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIMETHYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L							25.0000		U						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		U						
PYRENE	UG/L							10.0000		U						

000903

SAMPLE NUMBER:	003723			003922			110889			EMGW_SYSGEN_122			EMGW_SYSGEN_123		
LAB:							IT/MWL								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
TRIBUTYL PHOSPHATE UG/L							10.0000		U						
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L							10.0000		U				1.0000		UNV
1,1,2,2-TETRACHLOROETHANE UG/L							10.0000		U				1.0000		UNV
1,1,2-TRICHLOROETHANE UG/L							10.0000		U				1.0000		UNV
1,1-DICHLOROETHANE UG/L							10.0000		U				1.0000		UNV
1,1-DICHLOROETHENE UG/L							10.0000		U				1.0000		UNV
1,2-DICHLOROETHANE UG/L							10.0000		U				1.0000		UNV
1,2-DICHLOROETHENE (TOTAL) UG/L							10.0000		U				1.0000		UNV
1,2-DICHLOROPROPANE UG/L							10.0000		U				1.0000		UNV
2-BUTANONE UG/L							10.0000		U				2.0000		UNV
2-HEXANONE UG/L							10.0000		U				2.0000		UNV
4-METHYL-2-PENTANONE UG/L							10.0000		U				2.0000		UNV
ACETONE UG/L							10.0000		U				2.0000		UNV
BENZENE UG/L							10.0000		U				1.0000		UNV
BROMODICHLOROMETHANE UG/L							10.0000		U				1.0000		UNV
BROMOFORM UG/L							10.0000		U				1.0000		UNV
BROMOMETHANE UG/L							10.0000		U				1.0000		UNV
CARBON DISULFIDE UG/L							10.0000		U				1.0000		UNV
CARBON TETRACHLORIDE UG/L							10.0000		U				1.0000		UNV
CHLOROBENZENE UG/L							10.0000		U				1.0000		UNV
CHLOROETHANE UG/L							10.0000		U						
CHLOROFORM UG/L							10.0000		U				1.0000		UNV
CHLOROMETHANE UG/L							10.0000		UJ				1.0000		UNV
CIS-1,3-DICHLOROPROPENE UG/L							10.0000		U				1.0000		UNV
DIBROMOCHLOROMETHANE UG/L							10.0000		U				1.0000		UNV
ETHYLBENZENE UG/L							10.0000		U				1.0000		UNV
METHYLENE CHLORIDE UG/L							10.0000		U				1.0000		UNV
STYRENE UG/L							10.0000		U				1.0000		UNV
TETRACHLOROETHENE UG/L							10.0000		U				1.0000		UNV
TOLUENE UG/L							10.0000		U				1.0000		UNV
TRANS-1,3-DICHLOROPROPENE UG/L							10.0000		U				1.0000		UNV
TRICHLOROETHENE UG/L							10.0000		U				1.0000		UNV
VINYL ACETATE UG/L							10.0000		U				2.0000		UNV
VINYL CHLORIDE UG/L							10.0000		U				1.0000		UNV
XYLENES, TOTAL UG/L							10.0000		U				1.0000		UNV

000904

5204

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_124	GW930120-7	GW930422-15	066828	112000
TASK:	GWMON	RCRA	50.03.23	9.27	20.03.05
LAB:	NET	NET	LOCKHEED	IT	IT/MWL
WELL OR BORING NUMBER:	1042	1042	1042	1045	1045
DEPTH:	-	-	-	-	-
DATE COLLECTED:	11-DEC-90	20-JAN-93	22-APR-93	13-DEC-89	29-APR-93
NORTH COORDINATE:	480388.77	480388.77	480388.77	477134.7	477134.7
EAST COORDINATE:	1379543.28	1379543.28	1379543.28	1379751.55	1379751.55
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	374.0000		NV	382.0000		NV	450.0000		-						
ALLYL CHLORIDE	UG/L				5.0000		UNV									
AMMONIA	MG/L	0.0200		UNV	0.0200		NV									
BICARBONATE ALKALINITY	MG/L				464.0000		NV	450.0000		-						
CARBONATE ALKALINITY	MG/L				3.0000		UNV	30.0000		U						
CHLORIDE	MG/L	52.0000		NV	90.0000		NV									
FLUORIDE	MG/L	0.2000		NV	0.2500		NV									
NITRATE	MG/L				0.0200		UNV									
NITRATE/NITRITE	MG/L	0.0200		UNV												
NITRITE, AS NITROGEN	MG/L				0.0200		UNV									
PH	STD	6.8900		NV	7.0700		NV	7.9000		-						
PHENOLS	MG/L	0.0050		UNV	0.0100		UNV									
PHOSPHORUS	MG/L	0.0800		NV	0.1000		UNV									
SPECIFIC CONDUCTIVITY	UMHOS/CM	944.0000		NV	1210.0000		NV	1100.0000		-						
SULFATE	MG/L	96.0000		NV	153.0000		NV									
TOTAL DISSOLVED SOLIDS	MG/L	536.0000		NV	654.0000		NV	660.0000		-						
TOTAL ORGANIC CARBON	MG/L	4.0000		NV	8.0000		NV									
TOTAL ORGANIC HALIDES	MG/L				0.0100		UNV									
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV												
TOTAL SOLIDS	MG/L				718.0000		NV	690.0000		-						
INORGANICS																
ALUMINUM	MG/L				0.2000		UNV	0.0454		U				0.0556		-
ANTIMONY	MG/L				0.0200		UNV	0.0270		U				0.0034		UJ
ARSENIC	MG/L				0.0050		UNV	0.0020		U				0.0034		-
BARIUM	MG/L				0.2600		NV	0.0829		-				0.0481		J
BERYLLIUM	MG/L				0.0050		UNV	0.0010		U				0.0012		U
CADMIUM	MG/L				0.0010		UNV	0.0020		U				0.0020		U
CALCIUM	MG/L				138.0000		NV	149.0000		-				53.4000		-

000905

SAMPLE NUMBER:	EMGW_SYSGEN_124			GW930120-7			GW930422-15			066828			112000		
LAB:				NET			LOCKHEED						IT		
SUFFIX/FILTERFLAG:	-			NONE-FIL			NONE-UNF			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CHROMIUM	MG/L				0.0067		NV	0.0054		-				0.0040		U
COBALT	MG/L				0.0050		UNV	0.0050		U				0.0030		U
COPPER	MG/L				0.0200		UNV	0.0030		U				0.0207		U
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0200		U				0.0010		U
IRON	MG/L				0.1600		NV	0.6080		-				0.0207		U
LEAD	MG/L				0.0030		UNV	0.0020		U				0.0010		U
MAGNESIUM	MG/L				59.0000		NV	61.4000		-				16.3000		-
MANGANESE	MG/L				0.0690		NV	0.1120		-				0.0041		-
MERCURY	MG/L				0.0002		UNV	0.0002		U				0.0002		U
MOLYBDENUM	MG/L				0.0100		UNV	0.0110		U				0.0190		U
NICKEL	MG/L				0.0100		UNV	0.0110		U				0.0030		U
POTASSIUM	MG/L				1.0000		UNV	1.3700		-				5.9800		-
SELENIUM	MG/L				0.0050		UNV	0.0020		UJ				0.0195		-
SILICON	MG/L													10.8000		-
SILVER	MG/L				0.0010		UNV	0.0040		U				0.0020		U
SODIUM	MG/L				27.0000		NV	21.2000		-				15.6000		-
THALLIUM	MG/L				0.0100		UNV	0.0030		UJ				0.0010		U
VANADIUM	MG/L				0.0500		UNV	0.0040		U				0.0175		U
ZINC	MG/L				0.0200		UNV	0.0110		U				0.0063		U
MISC																
1,2,3-TRICHLOROPROPANE	UG/L				5.0000		UNV									
1,2-DIBROMO-3-CHLOROPROPANE	UG/L				2.0000		UNV									
1,2-DIBROMOETHANE	UG/L				2.0000		UNV									
2-CHLORO-1,3-BUTADIENE	UG/L				5.0000		UNV									
ACROLEIN	UG/L				50.0000		UNV									
ACROLEIN	UG/L				50.0000		UNV									
ACRYLONITRILE	UG/L				50.0000		UNV									
DICHLORODIFLUOROMETHANE	UG/L				10.0000		UNV									
ETHYL CYANIDE	UG/L				20.0000		UNV									
ETHYL METHACRYLATE	UG/L				5.0000		UNV									
IODOMETHANE	UG/L				5.0000		UNV									
METHACRYLONITRILE	UG/L				5.0000		UNV									
METHYL METHACRYLATE	UG/L				5.0000		UNV									
PENTACHLOROETHANE	UG/L				5.0000		UNV									
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TRANS-1,4-DICHLORO-2-BUTENE	UG/L				20.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	11.5000		NV				11.8000	2.1	J	2.1500	.4	-	0.9300	.31	J
URANIUM, TOTAL	UG/L	28.6000		NV	30.0000		NV	39.6000	2.8	-	10.1000	1.1	-	2.4700	.27	-
URANIUM-234	PCI/L	10.8000		NV				12.0000	2.2	J	1.7200	.35	-	1.1600	.36	-
THORIUM-230	PCI/L	0.5740		NV	0.5000	.2	NV	0.4000	.2	J	1.0000		U	0.2400	.15	J

000906

8704

SAMPLE NUMBER:		EMGW_SYSGEN_124			GW930120-7			GW930422-15			066828			112000		
LAB:		IT			CORE			CORE			IT			IT/RSL		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L	1.0000		UNV	1.0000	.3	UNV	1.0000	.1	UJ				1.0000		UJ
URANIUM-235/236	PCI/L	0.7120		NV				0.6000	.4	J	1.0000		U	0.2000		UJ
THORIUM-232	PCI/L	0.3800		UNV	0.2000	.1	UNV	0.2000	.2	UJ				0.2000		UJ
THORIUM, TOTAL	UG/L	3.5000		UNV	1.7000		NV							0.6600	.49	UJ
RADIUM-228	PCI/L	3.0000		UNV	3.0000	1.1	UNV	3.0000	1.2	U				3.0000		UJ
THORIUM-228	PCI/L	1.5500		NV	0.2000	.1	UNV	0.2000	.1	UJ	1.0000		U	0.2000	.11	UJ
NEPTUNIUM-237	PCI/L													0.5000	.223	UJ
PLUTONIUM-239/240	PCI/L													0.5000	.11	U
PLUTONIUM-238	PCI/L													0.5000	.164	UJ
STRONTIUM-90	PCI/L													1.0000		UJ
TECHNETIUM-99	PCI/L							15.1000	9.3	U	30.0000		U	15.0000		UJ
RUTHENIUM-106	PCI/L													150.0000		UJ
CESIUM-137	PCI/L													17.7000		UJ
GROSS ALPHA	PCI/L	13.0000		UNV	9.9000	2.9	NV	7.6000	2.4	NV				4.0200		UJ
GROSS BETA	PCI/L	20.9000		NV	6.5000	2.7	NV	14.1000	3.1	NV				7.0400	1.86	J
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV									
CUMENE	UG/L				1.0000		UNV									
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L				1.0000		UNV									
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV										10.0000		U
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
2-BUTANONE	UG/L	2.0000		UNV	10.0000		UNV							10.0000		U
2-HEXANONE	UG/L	2.0000		UNV	10.0000		UNV							10.0000		UJ
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	10.0000		UNV							10.0000		U
ACETONE	UG/L	2.0000		UNV	10.0000		UNV							10.0000		U
BENZENE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
BROMOMETHANE	UG/L	1.0000		UNV	5.0000		UNV							10.0000		U
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		UJ
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U
CHLOROETHANE	UG/L	1.0000		UNV	10.0000		UNV							10.0000		UJ
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV							10.0000		U

SAMPLE NUMBER:		EMGW_SYSGEN_124		GW930120-7		GW930422-15		066828		112000	
LAB:		NET		NET						IT/MWL	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-		-		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
CHLOROMETHANE	UG/L	1.0000	UNV	10.0000	UNV					10.0000	UJ
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
METHYLENE CHLORIDE	UG/L	1.0000	UNV	10.0000	UNV					11.0000	UJ
STYRENE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U
TRICHLOROFLUOROMETHANE	UG/L			1.0000	UNV						
VINYL ACETATE	UG/L	2.0000	UNV	10.0000	UNV					10.0000	U
VINYL CHLORIDE	UG/L	1.0000	UNV	5.0000	UNV					10.0000	U
XYLENES, TOTAL	UG/L	1.0000	UNV	1.0000	UNV					10.0000	U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_127	EMGW_SYSGEN_128	GW930707-5	003089	003370
TASK:	GWMON	GWMON	50.03.23	3.2.4	3.2.4
LAB:	NET	NET	TCT	IT	IT
WELL OR BORING NUMBER:	1045	1045	1045	1046	1046
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-APR-90	15-OCT-90	07-JUL-93	13-APR-88	24-JUL-88
NORTH COORDINATE:	477134.7	477134.7	477134.7	478054.76	478054.76
EAST COORDINATE:	1379751.55	1379751.55	1379751.55	1379428.51	1379428.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				258.0000		NV	224.0000		-						
AMMONIA	MG/L				0.0200		UNV	0.0300		U	0.1000		UJ	0.0200		U
CHLORIDE	MG/L	4.0000		NV	3.0000		NV	1.1900		-	2.7000		J	21.0000		J
FLUORIDE	MG/L				0.2100		NV	0.1900		-	0.3800		-	0.3300		J
NITRATE	MG/L										0.1000		R	0.3100		J
NITRATE, AS NITROGEN	MG/L	0.1000		NV												
NITRATE/NITRITE	MG/L				0.0200		NV	0.5910		-						
PH	STD				6.9000		NV									
PHENOLS	MG/L				0.0050		UNV				0.0200		-	0.0020		U
PHOSPHATE	MG/L							0.4540		R						
PHOSPHORUS	MG/L				0.2700		NV				0.0500		UJ	0.1000		-
SPECIFIC CONDUCTIVITY	UMHOS/CM				536.0000		NV									
SULFATE	MG/L	55.0000		NV	48.0000		NV	47.5000		-	12.0000		J	89.0000		-
TOTAL DISSOLVED SOLIDS	MG/L				345.0000		NV									
TOTAL KJELDAHL NITROGEN	MG/L							0.1000		U						
TOTAL ORGANIC CARBON	MG/L	3.0000		NV	3.0000		NV									
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U	0.1000		UJ	0.0500		R
INORGANICS																
ALUMINUM	MG/L							0.0691		U						
ANTIMONY	MG/L							0.0140		U						
ARSENIC	MG/L							0.0051		-	0.2000		UJ	0.0100		U
BARIUM	MG/L							0.0529		-	0.1190		R	0.5000		U
BERYLLIUM	MG/L							0.0050		UR						
CADMIUM	MG/L							0.0050		U	0.0020		U	0.0050		U
CALCIUM	MG/L							61.8000		-	103.0000		J	110.0000		-
CHROMIUM	MG/L							0.0060		UJ	0.0200		U	0.0100		U
COBALT	MG/L							0.0170		U						

SAMPLE NUMBER:		EMGW_SYSGEN_127			EMGW_SYSGEN_128			GW930707-5			003089			003370		
LAB:								TCT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COPPER	MG/L							0.0093		U	0.0100		UJ	0.0100		U
CYANIDE	MG/L				0.0050		UNV	0.0050		U						
IRON	MG/L							0.0220		U	0.0050		U	0.1000		U
LEAD	MG/L							0.0010		-	0.0500		UJ	0.0050		U
MAGNESIUM	MG/L							18.7000		-	41.2000		J	41.0000		-
MANGANESE	MG/L							0.0040		UR	0.1670		-	0.0600		-
MERCURY	MG/L							0.0001		U	0.0002		UJ	0.0002		U
MOLYBDENUM	MG/L							0.0170		UJ	0.0200		U	0.0500		U
NICKEL	MG/L							0.0180		UJ	0.0200		U	0.0300		U
POTASSIUM	MG/L							6.4900		-	1.0100		J	10.0000		-
SELENIUM	MG/L							0.0114		J	0.2000		UJ	0.0050		UJ
SILICON	MG/L							9.9100		-						
SILVER	MG/L							0.0020		U	0.0100		UJ	0.0100		U
SODIUM	MG/L							19.1000		-	6.8900		J	11.0000		-
THALLIUM	MG/L							0.0010		UJ						
VANADIUM	MG/L							0.0318		-						
ZINC	MG/L							0.0170		-						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	2.9300		NV				0.8000	.2	J	79.7000	13.5	-	2.0000	.4	J
URANIUM, TOTAL	UG/L	8.8900		NV				3.5000		NV	203.0000	32	-	6.0000	1	-
URANIUM-234	PCI/L	2.4900		NV				0.7000	.3	J	62.5000	10.8	-	2.8000	.5	J
THORIUM-230	PCI/L	0.8750		NV				0.2000	.2	UJ	1.0000	.5	J	1.0000		UJ
RADIUM-226	PCI/L	1.0000		UNV				1.0000	.2	UJ	1.0000		R	1.0000		U
URANIUM-235/236	PCI/L	0.3690		NV				0.2000	.5	UJ	3.8000	1.3	-	1.0000		UJ
THORIUM-232	PCI/L	0.4900		UNV				0.2000	.4	U	1.0000		UJ	1.0000		UJ
THORIUM, TOTAL	UG/L	4.4000		UNV				1.8240	.5	NV				4.0000		UJ
RADIUM-228	PCI/L	3.0000		UNV				3.0000	1.3	UJ	3.0000		R	3.0000		U
THORIUM-228	PCI/L	0.4900		UNV				0.2000	.5	UJ	1.1000	.5	J	1.0000		UJ
NEPTUNIUM-237	PCI/L										1.0000		UJ	1.0000		UJ
PLUTONIUM-239/240	PCI/L										1.0000		U	1.0000		UJ
PLUTONIUM-238	PCI/L										1.0000		U	1.0000		UJ
STRONTIUM-90	PCI/L										5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L							15.0000	7.2	U	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L										150.0000		R	150.0000		R
CESIUM-137	PCI/L										20.0000		R	20.0000		R
GROSS ALPHA	PCI/L							390.0000		UNV						
GROSS BETA	PCI/L							470.0000		UNV						

000910

5204

SAMPLE NUMBER:		EMGW_SYSGEN_127		EMGW_SYSGEN_128		GW930707-5		003089		003370	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
1,3-DICHLOROBENZENE	UG/L	1.0000	UNV								
1,4-DICHLOROBENZENE	UG/L	1.0000	UNV								
2-CHLOROETHYLVINYL ETHER	UG/L	60.0000	UNV	10.0000	UNV						
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
1,1,2-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
1,1-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
1,1-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
1,2-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
1,2-DICHLOROETHENE (TOTAL)	UG/L			1.0000	UNV	10.0000	U				
1,2-DICHLOROPROPANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
2-BUTANONE	UG/L			2.0000	UNV	10.0000	UJ				
2-HEXANONE	UG/L			2.0000	UNV	10.0000	UJ				
4-METHYL-2-PENTANONE	UG/L			2.0000	UNV	10.0000	UJ				
ACETONE	UG/L			2.0000	UNV	10.0000	UJ				
BENZENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
BROMODICHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
BROMOFORM	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
BROMOMETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
CARBON DISULFIDE	UG/L			1.0000	UNV	10.0000	U				
CARBON TETRACHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
CHLOROBENZENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
CHLOROETHANE	UG/L			1.0000	UNV	10.0000	U				
CHLOROFORM	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
CHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
METHYLENE CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
STYRENE	UG/L			1.0000	UNV	10.0000	U				
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
TRICHLOROFLUOROMETHANE	UG/L	1.0000	UNV								
VINYL ACETATE	UG/L			2.0000	UNV	10.0000	UJ				
VINYL CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	U				
XYLENES, TOTAL	UG/L			1.0000	UNV	10.0000	U				

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003649	003854	066829	113312	116231
TASK:	3.2.4	3.2.4	9.27	20.03.05	20.03.05
LAB:	IT	IT	IT	IT	ITAS
WELL OR BORING NUMBER:	1046	1046	1046	1046	1046
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-OCT-88	22-JAN-89	12-DEC-89	28-MAY-93	11-MAY-93
NORTH COORDINATE:	478054.76	478054.76	478054.76	478054.76	478054.76
EAST COORDINATE:	1379428.51	1379428.51	1379428.51	1379428.51	1379428.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													349.0000		-
AMMONIA	MG/L	0.1000		U	0.1000		U				0.1000		U			
CHLORIDE	MG/L	20.0000		-	1.5000		U							2.5000		-
FLUORIDE	MG/L	0.3500		-	0.3000		-							0.2900		-
NITRATE	MG/L	0.1000		UJ	0.0600		J							0.3400		J
PHENOLS	MG/L	0.0200		J	0.0100		U							0.0100		U
PHOSPHORUS	MG/L	0.8800		-	0.4000		-				0.1300		UJ	0.1200		-
SULFATE	MG/L	65.0000		J	120.0000		-							57.7200		-
SULFIDE	MG/L													0.5000		U
TOTAL KJELDAHL NITROGEN	MG/L	0.5000		UJ	0.2000		-									
TOTAL ORGANIC CARBON	MG/L										1.1000		-			
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0100		U							0.0100		U
TOTAL ORGANIC NITROGEN	MG/L	0.5000		-	0.2000		-				0.1900		-			
INORGANICS																
ALUMINUM	MG/L													2.4100		-
ANTIMONY	MG/L													0.0046		UJ
ARSENIC	MG/L	0.0020		U	0.0020		U							0.0019		U
BARIUM	MG/L	0.1020		-	0.0690		-							0.0729		-
BERYLLIUM	MG/L													0.0010		U
CADMIUM	MG/L	0.0020		U	0.0080		-							0.0020		U
CALCIUM	MG/L	99.9000		-	122.0000		-							123.0000		-
CHROMIUM	MG/L	0.0200		U	0.0270		-							0.0060		-
COBALT	MG/L													0.0030		U
COPPER	MG/L	0.0100		U	0.0130		-							0.0117		U
CYANIDE	MG/L													0.0010		U
IRON	MG/L	0.0510		-	0.0640		-							5.4800		-
LEAD	MG/L	0.0030		J	0.0020		UJ							0.0033		-
MAGNESIUM	MG/L	37.6000		-	48.6000		-							49.5000		-

000912

5704

SAMPLE NUMBER:		003649		003854		066829			113312			116231	
LAB:		IT		IT								IT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		-			-			NONE-UNF	
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
INORGANICS													
MANGANESE	MG/L	0.0570	-	0.0070	-							0.1690	-
MERCURY	MG/L	0.0002	UJ	0.0002	U							0.0002	U
MOLYBDENUM	MG/L	0.0200	U	0.0200	U							0.0032	U
NICKEL	MG/L	0.0200	U	0.0240	-							0.0089	-
POTASSIUM	MG/L	1.1200	-	1.0000	-							1.4200	-
SELENIUM	MG/L	0.0020	J	0.0050	U							0.0010	UJ
SILICON	MG/L											9.1400	-
SILVER	MG/L	0.0005	U	0.0005	U							0.0020	U
SODIUM	MG/L	6.5000	-	9.9800	-							10.8000	-
THALLIUM	MG/L											0.0010	U
VANADIUM	MG/L											0.0141	U
ZINC	MG/L											0.0192	-
PESTICIDES													
4,4'-DDD	UG/L											0.1000	U
4,4'-DDE	UG/L											0.1000	U
4,4'-DDT	UG/L											0.1000	U
ALDRIN	UG/L											0.0500	U
ALPHA-BHC	UG/L											0.0500	U
ALPHA-CHLORDANE	UG/L											0.0500	U
AROCLOR-1016	UG/L											1.0000	U
AROCLOR-1221	UG/L											2.0000	U
AROCLOR-1232	UG/L											1.0000	U
AROCLOR-1242	UG/L											1.0000	U
AROCLOR-1248	UG/L											1.0000	U
AROCLOR-1254	UG/L											1.0000	U
AROCLOR-1260	UG/L											1.0000	U
BETA-BHC	UG/L											0.0500	U
DELTA-BHC	UG/L											0.0500	U
DIELDRIN	UG/L											0.1000	U
ENDOSULFAN II	UG/L											0.1000	U
ENDOSULFAN SULFATE	UG/L											0.1000	U
ENDOSULFAN-I	UG/L											0.0500	U
ENDRIN	UG/L											0.1000	U
ENDRIN ALDEHYDE	UG/L											0.1000	U
ENDRIN KETONE	UG/L											0.1000	U
GAMMA-BHC (LINDANE)	UG/L											0.0500	U
GAMMA-CHLORDANE	UG/L											0.0500	U
HEPTACHLOR	UG/L											0.0500	U
HEPTACHLOR EPOXIDE	UG/L											0.0500	U
METHOXYCHLOR	UG/L											0.5000	U
TOXAPHENE	UG/L											5.0000	U

RADIONUCLIDES																	
URANIUM-238	PCI/L	2.3000	.5	J	1.9000	.4	-	1.9400	.45	-				7.9100	1.84	-	
06/20/94																	

SAMPLE NUMBER:	003649	003854	066829	113312	116231
LAB:	IT	IT	IT		IT
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	6.0000	1	-	6.0000	1	-	8.3600	.88	-				18.9000	2.64	-
URANIUM-234	PCI/L	2.0000	.5	J	2.4000	.5	-	2.9600	.59	-				7.8300	1.82	-
THORIUM-230	PCI/L	1.0000		UJ	1.0000		U	1.7600	.54	-				0.3470	.175	J
RADIUM-226	PCI/L	1.0000		U	1.0000		U							1.0000		UJ
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		U	1.0000		U				0.4790	.237	J
THORIUM-232	PCI/L	1.0000		UJ	1.0000		U							0.2000		UJ
THORIUM, TOTAL	UG/L	4.0000		UJ	4.0000		U							1.2300	.67	UJ
RADIUM-228	PCI/L	3.0000		U	3.3000		UJ							3.0000		UJ
THORIUM-228	PCI/L	1.0000		UJ	1.0000		U	1.4700	.49	J				0.2000		UJ
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		U							0.5000	.24	UJ
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		UJ							0.5000		UJ
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		UJ							0.5000		UJ
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U							1.0000		UJ
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U				15.0000		UJ
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R							150.0000		UJ
CESIUM-137	PCI/L	20.0000		R	20.0000		R							16.8000		UJ
GROSS ALPHA	PCI/L													9.7900		UJ
GROSS BETA	PCI/L													8.8100	5.18	J
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													25.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													25.0000		U
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													25.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													10.0000		U
3-NITROANILINE	UG/L													25.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													25.0000		UR

SAMPLE NUMBER:	003649			003854			066829			113312			116231		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4-BROMOPHENYL PHENYL ETHER UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER UG/L													10.0000		U
4-METHYLPHENOL UG/L													10.0000		U
4-NITROANILINE UG/L													25.0000		UR
4-NITROPHENOL UG/L													25.0000		U
ACENAPHTHENE UG/L													10.0000		U
ACENAPHTHYLENE UG/L													10.0000		U
ANTHRACENE UG/L													10.0000		U
BENZO(A)ANTHRACENE UG/L													10.0000		U
BENZO(A)PYRENE UG/L													10.0000		U
BENZO(B)FLUORANTHENE UG/L													10.0000		U
BENZO(G,H,I)PERYLENE UG/L													10.0000		U
BENZO(K)FLUORANTHENE UG/L													10.0000		U
BENZOIC ACID UG/L													50.0000		U
BENZYL ALCOHOL UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		UJ
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		U
BUTYL BENZYL PHTHALATE UG/L													10.0000		U
CARBAZOLE UG/L													10.0000		U
CHRYSENE UG/L													10.0000		U
DI-N-BUTYL PHTHALATE UG/L													4.0000		J
DI-N-OCTYL PHTHALATE UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		U
DIBENZOFURAN UG/L													10.0000		U
DIETHYL PHTHALATE UG/L													10.0000		U
DIMETHYL PHTHALATE UG/L													10.0000		U
FLUORANTHENE UG/L													10.0000		U
FLUORENE UG/L													10.0000		U
HEXACHLOROBENZENE UG/L													10.0000		U
HEXACHLOROBUTADIENE UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		U
HEXACHLOROETHANE UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		U
ISOPHORONE UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		U
N-NITROSODIPHENYLAMINE UG/L													10.0000		U
NAPHTHALENE UG/L													10.0000		U
NITROBENZENE UG/L													10.0000		U
P-CHLOROANILINE UG/L													10.0000		U
PENTACHLOROPHENOL UG/L													25.0000		U
PHENANTHRENE UG/L													10.0000		U
PHENOL MG/L													10.0000		U

SAMPLE NUMBER:		003649			003854			066829			113312			116231		
LAB:														ITAS		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PYRENE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_129	EMGW_SYSGEN_130	GW930511-11	003102	003369
TASK:	GWMON	GWMON	50.03.23	3.2.4	3.2.4
LAB:	NET	NET	LOCKHEED	IT	IT
WELL OR BORING NUMBER:	1046	1046	1046	1047	1047
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-APR-90	15-OCT-90	11-MAY-93	20-APR-88	24-JUL-88
NORTH COORDINATE:	478054.76	478054.76	478054.76	478258.45	478258.45
EAST COORDINATE:	1379428.51	1379428.51	1379428.51	1379062.49	1379062.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				358.0000		NV	360.0000		-						
AMMONIA	MG/L				0.0200		UNV				0.1000		-			
BICARBONATE ALKALINITY	MG/L							360.0000		-						
CARBONATE ALKALINITY	MG/L							30.0000		U						
CHLORIDE	MG/L	6.0000		NV	4.0000		NV				0.5000		U			
FLUORIDE	MG/L				0.7900		NV				0.5500		J			
NITRATE	MG/L										0.1600		J			
NITRATE, AS NITROGEN	MG/L	0.1000		NV												
NITRATE/NITRITE	MG/L				0.2300		NV									
PH	STD				6.9700		NV	7.9000		-						
PHENOLS	MG/L				0.0050		UNV				0.0200		-			
PHOSPHORUS	MG/L				0.8300		NV				0.0500		U			
SPECIFIC CONDUCTIVITY	UMHOS/CM				732.0000		NV	810.0000		-						
SULFATE	MG/L	93.0000		NV	66.0000		NV				128.0000		-			
TOTAL DISSOLVED SOLIDS	MG/L				570.0000		NV	470.0000		-						
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	3.0000		NV									
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L										0.3000		-			
TOTAL SOLIDS	MG/L							500.0000		-						
INORGANICS																
ALUMINUM	MG/L							0.0240		UJ						
ANTIMONY	MG/L							0.0270		UJ						
ARSENIC	MG/L							0.0020		U	0.2000		U			
BARIUM	MG/L							0.0533		-	0.0480		-			
BERYLLIUM	MG/L							0.0010		U						
CADMIUM	MG/L							0.0020		U	0.0050		U			
CALCIUM	MG/L							104.0000		-	103.0000		-			
CHROMIUM	MG/L							0.0040		U	0.0200		U			

000917

SAMPLE NUMBER:		EMGW_SYSGEN_129			EMGW_SYSGEN_130			GW930511-11			003102			003369		
LAB:								LOCKHEED			IT					
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COBALT	MG/L							0.0050		U						
COPPER	MG/L							0.0030		U	0.0100		U			
CYANIDE	MG/L				0.0050		UNV	0.0200		U						
IRON	MG/L							0.0079		-	0.0660		-			
LEAD	MG/L							0.0020		U	0.0500		UJ			
MAGNESIUM	MG/L							41.6000		-	50.8000		-			
MANGANESE	MG/L							0.0018		-	0.0350		-			
MERCURY	MG/L							0.0002		U	0.0002		U			
MOLYBDENUM	MG/L							0.0110		U	0.0200		U			
NICKEL	MG/L							0.0110		U	0.0200		U			
POTASSIUM	MG/L							1.0000		U	2.7300		J			
SELENIUM	MG/L							0.0010		U	0.2000		U			
SILVER	MG/L							0.0040		U	0.0120		J			
SODIUM	MG/L							10.6000		-	22.3000		-			
THALLIUM	MG/L							0.0030		U						
VANADIUM	MG/L							0.0040		U						
ZINC	MG/L							0.0030		U						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	1.6600		NV				7.5000	1.3	J	2.5000	.7	J	3.2000	.6	J
URANIUM, TOTAL	UG/L	5.0000		NV				19.0000		NV	6.0000	1	R	9.0000	2	-
URANIUM-234	PCI/L	1.7400		NV				6.4000	1.2	J	3.7000	.9	J	7.4000	1.1	J
THORIUM-230	PCI/L	0.9450		NV				0.2000	.2	UJ	1.0000		UJ	1.0000		UJ
RADIUM-226	PCI/L	1.0000		UNV				1.0000	.1	UJ	1.0000		UJ	1.0000		U
URANIUM-235/236	PCI/L	0.2200		UNV				0.2000	.3	UJ	1.0000		UJ	1.0000		UJ
THORIUM-232	PCI/L	0.5510		NV				0.3000	.1	J	1.0000		UJ	1.0000		UJ
THORIUM, TOTAL	UG/L	4.9700		NV				2.7360	.1	NV				5.0000	3	J
RADIUM-228	PCI/L	3.0000		UNV				9.9000	1.5	-	3.0000		UJ	3.0000		U
THORIUM-228	PCI/L	0.5300		UNV				0.2000	.1	UJ	1.0000		UJ	1.0000		UJ
NEPTUNIUM-237	PCI/L										1.0000		R	1.0000		UJ
PLUTONIUM-239/240	PCI/L										1.0000		UJ	1.0000		UJ
PLUTONIUM-238	PCI/L										1.0000		UJ	1.0000		UJ
STRONTIUM-90	PCI/L										5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L							15.0000	7.4	U	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L										150.0000		R	150.0000		R
CESIUM-137	PCI/L										20.0000		R	20.0000		R
GROSS ALPHA	PCI/L							10.0000	2.7	NV						
GROSS BETA	PCI/L							8.5000	2.4	NV						

SEMIVOLATILES

1,3-DICHLOROBENZENE UG/L 1.0000 UNV

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_129	EMGW_SYSGEN_130	GW930511-11	003102	003369
LAB:	NET				
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,4-DICHLOROBENZENE	UG/L	1.0000		UNV												
2-CHLOROETHYLVINYL ETHER	UG/L	60.0000		UNV	10.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV									
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV									
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV									
2-BUTANONE	UG/L				2.0000		UNV									
2-HEXANONE	UG/L				2.0000		UNV									
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV									
ACETONE	UG/L				2.0000		UNV									
BENZENE	UG/L	1.0000		UNV	1.0000		UNV									
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV									
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
CARBON DISULFIDE	UG/L				1.0000		UNV									
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROETHANE	UG/L				1.0000		UNV									
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV									
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV									
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV									
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV									
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
STYRENE	UG/L				1.0000		UNV									
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV									
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV									
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TRICHLOROFLUOROMETHANE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L				2.0000		UNV									
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV									
XYLENES, TOTAL	UG/L				1.0000		UNV									

000919

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003648	003855	066830	110892	EMGW_SYSGEN_131
TASK:	3.2.4	3.2.4	9.27	50.03.23	GWMON
LAB:	IT	IT	IT	IT/MWL	NET
WELL OR BORING NUMBER:	1047	1047	1047	1047	1047
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-OCT-88	22-JAN-89	12-DEC-89	27-APR-93	16-APR-90
NORTH COORDINATE:	478258.45	478258.45	478258.45	478258.45	478258.45
EAST COORDINATE:	1379062.49	1379062.49	1379062.49	1379062.49	1379062.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										360.0000		-			
AMMONIA	MG/L				0.1000		U				0.1000		U			
CHLORIDE	MG/L				1.5000		U				3.8500		-	9.0000		NV
FLUORIDE	MG/L				0.8000		-				0.4700		-			
NITRATE	MG/L				0.0500		R				0.1000		UR			
NITRATE, AS NITROGEN	MG/L													0.0800		NV
PHENOLS	MG/L				0.0100		U				0.0100		U			
PHOSPHORUS	MG/L				0.4000		-				0.6400		-			
SULFATE	MG/L				180.0000		-				166.9000		-	177.0000		NV
SULFIDE	MG/L										0.5000		U			
TOTAL KJELDAHL NITROGEN	MG/L				0.2000		-				0.4100		-			
TOTAL ORGANIC CARBON	MG/L										1.1900		-	3.0000		NV
TOTAL ORGANIC HALIDES	MG/L				0.0100		U				10.0000		U			
TOTAL ORGANIC HALOGENS	MG/L													0.0100		UNV
TOTAL ORGANIC NITROGEN	MG/L				0.2000		-				0.4100		-			
INORGANICS																
ALUMINUM	MG/L										0.0827		U			
ANTIMONY	MG/L										0.0010		U			
ARSENIC	MG/L				0.0020		U				0.0010		U			
BARIUM	MG/L				0.0540		-				0.0459		-			
BERYLLIUM	MG/L										0.0031		U			
CADMIUM	MG/L				0.0090		-				0.0020		U			
CALCIUM	MG/L				111.0000		-				112.0000		-			
CHROMIUM	MG/L				0.0240		-				0.0040		U			
COBALT	MG/L										0.0030		U			
COPPER	MG/L				0.0110		-				0.0089		U			
CYANIDE	MG/L										0.0010		U			
IRON	MG/L				0.1250		U				0.0312		U			

000920

8704

SAMPLE NUMBER:		003648			003855			066830			110892			EMGW_SYSGEN_131		
LAB:					IT						IT					
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L				0.0020		UJ				0.0010		U			
MAGNESIUM	MG/L				53.8000		-				50.6000		-			
MANGANESE	MG/L				0.0190		-				0.0020		U			
MERCURY	MG/L				0.0002		U				0.0002		U			
MOLYBDENUM	MG/L				0.0200		U				0.0055		-			
NICKEL	MG/L				0.0250		-				0.0030		U			
POTASSIUM	MG/L				2.3400		-				1.5000		-			
SELENIUM	MG/L				0.0020		U				0.0010		UJ			
SILICON	MG/L										6.2200		-			
SILVER	MG/L				0.0005		U				0.0020		U			
SODIUM	MG/L				29.2000		-				40.9000		-			
THALLIUM	MG/L										0.0010		U			
VANADIUM	MG/L										0.0099		U			
ZINC	MG/L										0.0066		-			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L													1.0000		UNV
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U			
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		U			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		U			
ALPHA-CHLORDANE	UG/L										0.0500		U			
AROCLOR-1016	UG/L										1.0000		U			
AROCLOR-1221	UG/L										2.0000		U			
AROCLOR-1232	UG/L										1.0000		U			
AROCLOR-1242	UG/L										1.0000		U			
AROCLOR-1248	UG/L										1.0000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.1000		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.1000		U			
ENDRIN ALDEHYDE	UG/L										0.1000		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.0500		U			

009921

SAMPLE NUMBER:		003648			003855			066830			110892			EMGW_SYSGEN_131		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										5.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	3.6000	.7	J	2.1000	.4	-	2.8100	.63	-	1.6200	.48	-	2.6300		NV
URANIUM, TOTAL	UG/L	11.1922.7		NV	6.0000	1	-	10.3000	1.1	-	5.3600	.78	-	7.9700		NV
URANIUM-234	PCI/L	7.3000	1.2	J	3.7000	.6	-	3.9900	.79	-	2.3300	.64	-	4.0300		NV
THORIUM-230	PCI/L	1.0000	.4	J	1.0000		U	1.0000		U	0.2270	.132	J	0.7100		UNV
RADIUM-226	PCI/L	1.0000		U	1.0000		U				1.0000	.356	UJ	2.8900		NV
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	0.2000		UJ	0.3010		NV
THORIUM-232	PCI/L	1.1000	.4	J	1.0000		U				0.2000		UJ	0.8490		NV
THORIUM, TOTAL	UG/L	10.00004		-	3.0000		U				1.1200	.42	UJ	7.6600		NV
RADIUM-228	PCI/L	3.0000		U	3.4000		UJ				5.9300	2.77	J	8.0600		NV
THORIUM-228	PCI/L	1.1000	.4	-	1.0000		U	1.0000		U	0.2000		UJ	1.3300		NV
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		U				0.5000	.102	U			
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		UJ				0.5000		UJ			
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		UJ				0.5000		UJ			
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U				1.0000		UJ			
TECHNETIUM-99	PCI/L	43.7000		U	30.0000		U	30.0000		U	15.0000		UJ			
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R				150.0000		UJ			
CESIUM-137	PCI/L	20.0000		R	20.0000		R				15.0000		UJ			
GROSS ALPHA	PCI/L										12.0000		UJ			
GROSS BETA	PCI/L										11.0000		UJ			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U	1.0000		UNV
1,4-DICHLOROBENZENE	UG/L										10.0000		U	1.0000		UNV
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										25.0000		U			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLOROETHYLVINYL ETHER	UG/L													60.0000		UNV
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			

000922

SAMPLE NUMBER:	003648	003855	066830	110892	EMGW_SYSGEN_131
LAB:				IT-KNOX	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-NITROANILINE	UG/L										25.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										10.0000		UJ			
3-NITROANILINE	UG/L										25.0000		UJ			
4,6-DINITRO-2-METHYLPHENOL	UG/L										25.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										25.0000		UR			
4-NITROPHENOL	UG/L										25.0000		UR			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U			
BENZO(K)FLUORANTHENE	UG/L										10.0000		UJ			
BENZOIC ACID	UG/L										50.0000		U			
BENZYL ALCOHOL	UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		U			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CARBAZOLE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		UJ			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		UJ			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		U			
HEXACHLOROBUTADIENE	UG/L										10.0000		UJ			
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		U			
HEXACHLOROETHANE	UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L										10.0000		U			
ISOPHORONE	UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										10.0000		U			
NAPHTHALENE	UG/L										10.0000		U			

SAMPLE NUMBER:		003648			003855			066830			110892			EMGW_SYSGEN_131		
LAB:											IT-KNOX					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
NITROBENZENE	UG/L										10.0000		U			
P-CHLOROANILINE	UG/L										10.0000		UR			
PENTACHLOROPHENOL	UG/L										25.0000		U			
PHENANTHRENE	UG/L										10.0000		U			
PHENOL	MG/L										10.0000		U			
PYRENE	UG/L										10.0000		U			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U	1.0000		UNV
1,1-DICHLOROETHANE	UG/L										10.0000		U	1.0000		UNV
1,1-DICHLOROETHENE	UG/L										10.0000		U	1.0000		UNV
1,2-DICHLOROETHANE	UG/L										10.0000		U	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U	1.0000		UNV
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U	1.0000		UNV
BROMODICHLOROMETHANE	UG/L										10.0000		U	1.0000		UNV
BROMOFORM	UG/L										10.0000		U	1.0000		UNV
BROMOMETHANE	UG/L										10.0000		U	1.0000		UNV
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U	1.0000		UNV
CHLOROBENZENE	UG/L										10.0000		U	1.0000		UNV
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U	1.0000		UNV
CHLOROMETHANE	UG/L										10.0000		UJ	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L										10.0000		U	1.0000		UNV
ETHYLBENZENE	UG/L										10.0000		U	1.0000		UNV
METHYLENE CHLORIDE	UG/L										10.0000		U	1.0000		UNV
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U	1.0000		UNV
TOLUENE	UG/L										10.0000		U	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U	1.0000		UNV
TRICHLOROETHENE	UG/L										10.0000		U	1.0000		UNV
TRICHLOROFLUOROMETHANE	UG/L													1.0000		UNV
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		UJ	1.0000		UNV
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_132			003132			003368			003647			003856		
TASK:		GWMON			3.2.4			3.2.4			3.2.4			3.2.4		
LAB:		NET			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1047			1048			1048			1048			1048		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		15-OCT-90			27-APR-88			24-JUL-88			23-OCT-88			22-JAN-89		
NORTH COORDINATE:		478258.45			477477.45			477477.45			477477.45			477477.45		
EAST COORDINATE:		1379062.49			1379877.21			1379877.21			1379877.21			1379877.21		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	376.0000		NV												
AMMONIA	MG/L	0.5600		NV	0.1000		UJ	0.0200		U	0.1000		U	0.1000		U
CHLORIDE	MG/L	6.0000		NV	45.6000		-	16.0000		J	12.5000		-	3.5000		U
FLUORIDE	MG/L	1.6400		NV	0.1900		-	0.4100		J	0.5000		-	0.3000		-
NITRATE	MG/L				0.1400		-	0.4100		J	0.3380		J	0.0500		R
NITRATE/NITRITE	MG/L	0.0200		NV												
PH	STD	7.1300		NV												
PHENOLS	MG/L	0.0050		UNV	0.0100		U	0.0020		U	0.0100		UJ	0.0100		U
PHOSPHORUS	MG/L	1.7100		NV	0.4400		-	0.2100		-	0.2200		-	0.6000		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	819.0000		NV												
SULFATE	MG/L	149.0000		NV	99.0000		-	93.0000		-	69.0000		J	59.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	650.0000		NV												
TOTAL KJELDAHL NITROGEN	MG/L										0.3600		UJ	0.5000		-
TOTAL ORGANIC CARBON	MG/L	2.0000		NV												
TOTAL ORGANIC HALIDES	MG/L										0.0500		U	0.0100		U
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV												
TOTAL ORGANIC NITROGEN	MG/L				0.1000		J	0.0500		R	0.3600		-	0.5000		-
INORGANICS																
ARSENIC	MG/L				0.2000		U	0.0100		U	0.0020		U	0.0020		U
BARIUM	MG/L				0.1120		-	0.5000		U	0.1010		-	0.0710		-
CADMIUM	MG/L				0.0069		-	0.0050		U	0.0020		U	0.0030		-
CALCIUM	MG/L				114.0000		-	110.0000		-	103.0000		-	51.8000		-
CHROMIUM	MG/L				0.0200		U	0.0100		U	0.0200		U	0.0150		-
COPPER	MG/L				0.0100		U	0.0100		U	0.0100		U	0.0110		-
CYANIDE	MG/L	0.0050		UNV												
IRON	MG/L				0.0500		U	0.1000		U	0.0610		-	0.1530		-
LEAD	MG/L				0.0600		-	0.0050		U	0.0040		J	0.0020		UJ
MAGNESIUM	MG/L				80.2000		-	63.0000		-	48.3000		-	15.4000		-

000925

SAMPLE NUMBER:		EMGW_SYSGEN_132		003132			003368			003647			003856		
LAB:				IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		-		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L				0.1870		-	0.0200		-	0.0030		-	0.0050		-
MERCURY	MG/L				0.0002		U	0.0002		U	0.0002		UJ	0.0002		U
MOLYBDENUM	MG/L				0.0200		U	0.0500		U	0.0200		U	0.0200		U
NICKEL	MG/L				0.0200		U	0.0300		U	0.0200		U	0.0200		U
POTASSIUM	MG/L				1.6800		-	4.5000		-	3.4200		-	5.4300		-
SELENIUM	MG/L				0.2000		U	0.0050		UJ	0.0020		UJ	0.0020		U
SILVER	MG/L				0.0770		U	0.0100		U	0.0005		U	0.0005		U
SODIUM	MG/L				18.2100		-	31.0000		-	22.5000		-	9.8500		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L				5.6000	1	R	5.3000	.8	J	4.0000	1	J	6.9000	1.1	-
URANIUM, TOTAL	UG/L				19.0000	3	R	17.0000	3	-	15.0000	3	-	21.0000	4	-
URANIUM-234	PCI/L				6.8000	1.2	R	5.4000	.8	J	4.5000	1	J	6.6000	1	-
THORIUM-230	PCI/L				1.0000		R	1.0000		UJ	1.0000		UJ	1.0000		U
RADIUM-226	PCI/L				1.0000		R	1.0000		UJ	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L				1.0000		R	1.0000		UJ	1.0000		UJ	1.0000		U
THORIUM-232	PCI/L				1.0000		R	1.0000		UJ	1.0000		UJ	1.0000		U
THORIUM, TOTAL	UG/L							4.0000		UJ	5.0000	3	J	4.0000	2	-
RADIUM-228	PCI/L				3.0000		R	3.0000		UJ	3.0000		U	3.0000		UJ
THORIUM-228	PCI/L				1.0000		R	1.0000		UJ	1.0000		UJ	1.0000		U
NEPTUNIUM-237	PCI/L				1.0000		R	1.0000		UJ	1.0000		UJ	1.0000		U
PLUTONIUM-239/240	PCI/L				1.0000		R	1.0000		UJ	1.0000		UJ	1.0000		UJ
PLUTONIUM-238	PCI/L				1.0000		R	1.0000		UJ	1.0000		UJ	1.0000		UJ
STRONTIUM-90	PCI/L				5.0000		R	5.0000		U	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L				30.0000		R	30.0000		U	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L				150.0000		R	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L				20.0000		R	20.0000		R	20.0000		R	20.0000		R
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHENE	UG/L	1.0000		UNV												
1,2-DICHLOROETHANE	UG/L	1.0000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_132		003132			003368			003647			003856		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV												
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV												
2-BUTANONE	UG/L	2.0000		UNV												
2-HEXANONE	UG/L	2.0000		UNV												
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV												
ACETONE	UG/L	2.0000		UNV												
BENZENE	UG/L	1.0000		UNV												
BROMODICHLOROMETHANE	UG/L	1.0000		UNV												
BROMOFORM	UG/L	1.0000		UNV												
BROMOMETHANE	UG/L	1.0000		UNV												
CARBON DISULFIDE	UG/L	1.0000		UNV												
CARBON TETRACHLORIDE	UG/L	1.0000		UNV												
CHLOROBENZENE	UG/L	1.0000		UNV												
CHLOROETHANE	UG/L	1.0000		UNV												
CHLOROFORM	UG/L	1.0000		UNV												
CHLOROMETHANE	UG/L	1.0000		UNV												
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV												
ETHYLBENZENE	UG/L	1.0000		UNV												
METHYLENE CHLORIDE	UG/L	1.0000		UNV												
STYRENE	UG/L	1.0000		UNV												
TETRACHLOROETHENE	UG/L	1.0000		UNV												
TOLUENE	UG/L	1.0000		UNV												
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
TRICHLOROETHENE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	2.0000		UNV												
VINYL CHLORIDE	UG/L	1.0000		UNV												
XYLENES, TOTAL	UG/L	1.0000		UNV												

000927

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066831			110900			EMGW_SYSGEN_133			EMGW_SYSGEN_134			003162		
TASK:	9.27			20.03.05			GWMON			GWMON			3.2.4		
LAB:	IT			IT/MWL			NET			NET			IT		
WELL OR BORING NUMBER:	1048			1048			1048			1048			1052		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	16-DEC-89			28-APR-93			16-APR-90			16-OCT-90			06-MAY-88		
NORTH COORDINATE:	477477.45			477477.45			477477.45			477477.45			482506.58		
EAST COORDINATE:	1379877.21			1379877.21			1379877.21			1379877.21			1380147.61		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				790.0000		-				586.0000		NV			
AMMONIA	MG/L				0.1000		U				0.0200		UNV	0.1000		U
CHLORIDE	MG/L				7.3100		-	9.0000		NV	13.0000		NV	5.8000		-
FLUORIDE	MG/L				0.3500		-				0.1300		NV	1.3500		-
NITRATE	MG/L				0.1000		UR							0.1000		R
NITRATE, AS NITROGEN	MG/L							0.0400		NV						
NITRATE/NITRITE	MG/L										0.0300		NV			
PH	STD										6.6800		NV			
PHENOLS	MG/L				0.0100		U				0.0050		UNV	0.0100		UJ
PHOSPHORUS	MG/L				0.0800		-				2.0600		NV	0.3850		J
SPECIFIC CONDUCTIVITY	UMHOS/CM										1540.0000		NV			
SULFATE	MG/L				110.4000		-	97.0000		NV	82.0000		NV	15.0000		-
SULFIDE	MG/L				0.5000		U									
TOTAL DISSOLVED SOLIDS	MG/L										1230.0000		NV			
TOTAL KJELDAHL NITROGEN	MG/L				0.2300		-									
TOTAL ORGANIC CARBON	MG/L				2.9400		-	4.0000		NV	6.0000		NV			
TOTAL ORGANIC HALIDES	MG/L				62.3000		-									
TOTAL ORGANIC HALOGENS	MG/L							0.0150		NV	0.1190		NV			
TOTAL ORGANIC NITROGEN	MG/L				0.2300		-							0.2000		-
INORGANICS																
ALUMINUM	MG/L				0.1630		-									
ANTIMONY	MG/L				0.0010		U									
ARSENIC	MG/L				0.0010		U							0.2000		U
BARIUM	MG/L				0.2010		-							0.1120		-
BERYLLIUM	MG/L				0.0036		U									
CADMIUM	MG/L				0.0020		U							0.0050		U
CALCIUM	MG/L				153.0000		-							91.5000		-
CHROMIUM	MG/L				0.0040		U							0.0200		U

000928

5704

SAMPLE NUMBER:		066831			110900			EMGW_SYSGEN_133			EMGW_SYSGEN_134			003162		
LAB:					IT									IT		
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COBALT	MG/L				0.0030		U									
COPPER	MG/L				0.0048		U							0.0200		U
CYANIDE	MG/L				0.0010		U				0.0050		UNV			
IRON	MG/L				0.0514		U							0.0050		U
LEAD	MG/L				0.0010		U							0.0500		U
MAGNESIUM	MG/L				139.0000		-							36.4000		-
MANGANESE	MG/L				0.3780		-							0.0750		-
MERCURY	MG/L				0.0002		U							0.0002		U
MOLYBDENUM	MG/L				0.0045		-							0.0200		U
NICKEL	MG/L				0.0054		-							0.0200		U
POTASSIUM	MG/L				1.4000		-							1.6200		-
SELENIUM	MG/L				0.0010		UJ							0.2000		U
SILICON	MG/L				10.7000		-									
SILVER	MG/L				0.0020		U							0.0100		U
SODIUM	MG/L				28.3000		-							6.8600		-
THALLIUM	MG/L				0.0010		U									
VANADIUM	MG/L				0.0165		U									
ZINC	MG/L				0.0045		-									
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.0500		U									
AROCLOR-1016	UG/L				1.0000		U									
AROCLOR-1221	UG/L				2.0000		U									
AROCLOR-1232	UG/L				1.0000		U									
AROCLOR-1242	UG/L				1.0000		U									
AROCLOR-1248	UG/L				1.0000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									

SAMPLE NUMBER:	066831			110900			EMGW_SYSGEN_133			EMGW_SYSGEN_134			003162		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDRIN ALDEHYDE	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.0500		U									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				5.0000		U									
RADIONUCLIDES																
URANIUM-238	PCI/L	15.00002		-	12.5000	2.8	-	13.5000		NV				1.2000	.5	-
URANIUM, TOTAL	UG/L	52.60008.4		-	31.1000	4.2	-	40.6000		NV				2.0000	1	-
URANIUM-234	PCI/L	14.20002		-	11.4000	2.6	-	13.8000		NV				1.0000		U
THORIUM-230	PCI/L	2.7800 1.13		-	0.2000	.104	U	1.0000		UNV				1.0000		U
RADIUM-226	PCI/L				1.0000		UJ	1.0400		NV				1.0000		R
URANIUM-235/236	PCI/L	1.0000		U	0.5600	.257	J	1.0000		UNV				1.0000		U
THORIUM-232	PCI/L				0.2000		UJ	1.0000		UNV				1.0000		U
THORIUM, TOTAL	UG/L				0.9200	.15	UJ	6.3900		NV						
RADIUM-228	PCI/L				3.0000		UJ	3.0000		UNV				3.0000		R
THORIUM-228	PCI/L	2.9300 1.16		-	0.2000		UJ	1.2700		NV				1.0000		U
NEPTUNIUM-237	PCI/L				0.5000	.123	U							1.0000		R
PLUTONIUM-239/240	PCI/L				0.5000		UJ							1.0000		U
PLUTONIUM-238	PCI/L				0.5000	.102	UJ							1.0000		U
STRONTIUM-90	PCI/L				1.1900	.525	J							5.0000		U
TECHNETIUM-99	PCI/L	30.0000		U	15.0000		UJ							30.0000		U
RUTHENIUM-106	PCI/L				150.0000		UJ							150.0000		R
CESIUM-137	PCI/L				18.0000		UJ							20.0000		R
GROSS ALPHA	PCI/L				20.0000		UJ									
GROSS BETA	PCI/L				14.1000	8.12	J									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U	1.0000		UNV						
1,4-DICHLOROBENZENE	UG/L				10.0000		U	1.0000		UNV						
2,4,5-TRICHLOROPHENOL	UG/L				25.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				25.0000		U									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLOROETHYLVINYL ETHER	UG/L							60.0000		UNV	10.0000		UNV			

SAMPLE NUMBER:	066831	110900	EMGW_SYSGEN_133	EMGW_SYSGEN_134	003162
LAB:			NET	NET	
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				25.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				10.0000		UJ									
3-NITROANILINE	UG/L				25.0000		UJ									
4,6-DINITRO-2-METHYLPHENOL	UG/L				25.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				25.0000		UR									
4-NITROPHENOL	UG/L				25.0000		UR									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		UJ									
BENZOIC ACID	UG/L				50.0000		U									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UJ									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UJ									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		UJ									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		UJ									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									

SAMPLE NUMBER:	066831	110900	EMGW_SYSGEN_133	EMGW_SYSGEN_134	003162
LAB:		IT-KNOX			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		UR									
PENTACHLOROPHENOL	UG/L				25.0000		U									
PHENANTHRENE	UG/L				10.0000		U									
PHENOL	MG/L				10.0000		U									
PYRENE	UG/L				10.0000		U									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
1,2-DICHLOROETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U				1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
2-BUTANONE	UG/L				1.0000		J				2.0000		UNV			
2-HEXANONE	UG/L				10.0000		UJ				2.0000		UNV			
4-METHYL-2-PENTANONE	UG/L				10.0000		U				2.0000		UNV			
ACETONE	UG/L				3.0000		U				2.0000		UNV			
BENZENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
BROMODICHLOROMETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
BROMOFORM	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
BROMOMETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
CARBON DISULFIDE	UG/L				10.0000		U				1.0000		UNV			
CARBON TETRACHLORIDE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
CHLOROBENZENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
CHLOROETHANE	UG/L				10.0000		U				1.0000		UNV			
CHLOROFORM	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
CHLOROMETHANE	UG/L				10.0000		UJ	1.0000		UNV	1.0000		UNV			
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
DIBROMOCHLOROMETHANE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
ETHYLBENZENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
METHYLENE CHLORIDE	UG/L				10.0000		UJ	1.0000		UNV	1.0000		UNV			
STYRENE	UG/L				10.0000		U				1.0000		UNV			
TETRACHLOROETHENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
TOLUENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
TRICHLOROETHENE	UG/L				10.0000		U	1.0000		UNV	1.0000		UNV			
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV						

SAMPLE NUMBER:	066831	110900	EMGW_SYSGEN_133	EMGW_SYSGEN_134	003162
LAB:			NET		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
VINYL ACETATE	UG/L				10.0000		U				2.0000		UNV			
VINYL CHLORIDE	UG/L				10.0000		UJ	1.0000		UNV	1.0000		UNV			
XYLENES, TOTAL	UG/L				10.0000		U				1.0000		UNV			

000933

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003441			003701			003909			066421			066532		
TASK:		3.2.4			3.2.4			3.2.4			9.25			9.25		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1052			1052			1052			1052			1052		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		05-AUG-88			09-NOV-88			26-FEB-89			22-JUN-89			08-SEP-89		
NORTH COORDINATE:		482506.58			482506.58			482506.58			482506.58			482506.58		
EAST COORDINATE:		1380147.61			1380147.61			1380147.61			1380147.61			1380147.61		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1000		U	0.1000		UJ	0.3000		U						
CHLORIDE	MG/L	4.0000		-	3.8000		-	5.9000		U	2.5000		-	7.5000		-
FLUORIDE	MG/L	1.3000		-	0.9200		-	0.9000		-	0.9400		-	1.0000		-
NITRATE	MG/L	0.3000		J	0.0370		U	0.1100		-	0.1500		J	0.1000		R
PHENOLS	MG/L	0.0400		J	0.0150		J	0.0050		-						
PHOSPHORUS	MG/L	0.2000		-	0.0260		-	0.6400		-						
SULFATE	MG/L	74.0000		U	34.8000		U	85.0000		-	239.0000		-	89.6000		-
SULFIDE	MG/L													0.5000		UJ
TOTAL KJELDAHL NITROGEN	MG/L				0.1500		UJ	0.7000		-						
TOTAL ORGANIC CARBON	MG/L										4.6900		U	1.0000		U
TOTAL ORGANIC HALIDES	MG/L				0.0500		U	0.0500		U	0.0078		J	0.0100		UJ
TOTAL ORGANIC NITROGEN	MG/L	0.3000		J	0.1500		J	0.4000		-						
INORGANICS																
ALUMINUM	MG/L										0.3370		-			
ARSENIC	MG/L	0.0100		U	0.0020		-	0.0030		U						
BARIUM	MG/L	0.2000		U	0.0810		-	0.0570		-	0.1060		-			
BERYLLIUM	MG/L										0.0010		U			
CADMIUM	MG/L	0.0050		U	0.0025		U	0.0050		U						
CALCIUM	MG/L	100.0000		-	105.0000		-	110.0000		-	99.5000		-			
CHROMIUM	MG/L	0.0100		U	0.0200		-	0.0200		-	0.0379		-			
COBALT	MG/L										0.0131		-			
COPPER	MG/L	0.0300		U	0.0100		-	0.0100		U	0.0137		-			
IRON	MG/L	0.1000		U	0.0050		-	0.0600		U	0.2580		-			
LEAD	MG/L	0.0050		U	0.0020		UJ	0.0020		U	0.0028		-			
MAGNESIUM	MG/L	42.0000		-	39.2000		-	42.0000		-	46.2000		-			
MANGANESE	MG/L	0.0800		-	0.1080		-	0.0090		-						
MERCURY	MG/L	0.0003		U	0.0002		UJ	0.0002		J						
MOLYBDENUM	MG/L	0.0500		U	0.0200		-	0.0200		-						

000934

5704

SAMPLE NUMBER:		003441			003701			003909			066421			066532		
LAB:		IT			IT			IT								
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L	0.0400		U	0.0200		-	0.0300		U	0.0134		-			
POTASSIUM	MG/L	5.0000		U	1.2300		J	1.4000		-						
SELENIUM	MG/L	0.0050		U	0.0020		U	0.0050		U						
SILVER	MG/L	0.0100		U	0.0100		-	0.0100		U	0.0170		-			
SODIUM	MG/L	9.0000		-	7.8300		-	84.0000		-						
VANADIUM	MG/L										0.0329		-			
ZINC	MG/L										0.0421		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	1.7000	.4	-	3.1000	.5	-	1.0000		U
URANIUM, TOTAL	UG/L	3.0000	1	-	2.0000	1	J	6.0000	1	J	11.0000	2	-	2.0000	1	-
URANIUM-234	PCI/L	1.5000	.4	-	1.0000		U	4.0000	.7	-	6.2000	.9	-	1.1000	.3	-
THORIUM-230	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		R	1.0000		U	1.0000		UJ						
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		U	1.0000		U	1.0000		U						
THORIUM, TOTAL	UG/L	3.0000		U	6.0000		UJ	3.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		UJ						
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U	1.0000		U						
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		UJ	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
VOLATILES																
1,1-DICHLOROETHANE	UG/L										5.0000		U			
ACETONE	UG/L										29.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										5.0000		U			
TOLUENE	UG/L										5.0000		UJ			
TRICHLOROETHENE	UG/L										5.0000		U			

000935

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066562			066652			066653			066746			066747		
TASK:	9.25			9.27			9.27			9.27			9.27		
LAB:	IT			IT			WMCO			IT			WMCO		
WELL OR BORING NUMBER:	1052			1052			1052			1052			1052		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	08-SEP-89			21-NOV-89			21-NOV-89			21-NOV-89			21-NOV-89		
NORTH COORDINATE:	482506.58			482506.58			482506.58			482506.58			482506.58		
EAST COORDINATE:	1380147.61			1380147.61			1380147.61			1380147.61			1380147.61		
QA TYPE:	NORMAL			NORMAL			NORMAL			DUPLICATE			DUPLICATE		
QC OF:										066652			066653		
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L	1000.0000		UJ												
GENERAL CHEMISTRY																
CHLORIDE	MG/L							6.0000		NV				6.0000		NV
FLUORIDE	MG/L							0.7900		NV				0.9500		NV
NITRATE	MG/L							0.3500		NV				0.3300		NV
PHENOLS	MG/L							0.0050		UNV				0.0110		NV
SULFATE	MG/L							94.0000		NV				78.0000		NV
SULFIDE	MG/L	0.5000		UJ												
TOTAL ORGANIC CARBON	MG/L							1.0000		NV				1.0000		NV
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV				0.0100		UNV
HERBICIDES																
2,4,5-T	UG/L	5.0000		UJ												
2,4,5-TP (SILVEX)	UG/L	0.0250		UJ												
2,4-D	UG/L	0.0500		UJ												
INORGANICS																
ALUMINUM	MG/L	0.1410		-				5.2000		NV				0.4270		NV
ANTIMONY	MG/L	0.0300		U												
ARSENIC	MG/L	0.0020		U				0.0050		NV				0.0025		UNV
BARIUM	MG/L	0.0623		-				0.2090		NV				0.2000		UNV
BERYLLIUM	MG/L	0.0012		U				0.0100		UNV				0.0100		UNV
CADMIUM	MG/L	0.0054		-												
CALCIUM	MG/L	113.0000		-				99.0000		NV				114.0000		NV
CHROMIUM	MG/L	0.0240		-				0.0580		NV				0.0050		UNV
COBALT	MG/L	0.0100		U				0.0250		UNV				0.0250		UNV

000936

9704

SAMPLE NUMBER:		066562		066652		066653		066746		066747	
LAB:		IT				WMCO				WMCO	
SUFFIX/FILTERFLAG:		NONE-FIL		-		NONE-UNF		-		F-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
COPPER	MG/L	0.0100	U			0.0250	UNV			0.0250	UNV
CYANIDE	MG/L	0.0050	U								
IRON	MG/L	0.0792	-			6.6800	NV			0.0580	NV
LEAD	MG/L	0.0020	U			0.0050	UNV			0.0050	UNV
MAGNESIUM	MG/L	44.0000	-			43.8000	NV			40.8000	NV
MANGANESE	MG/L	0.0185	-			0.0200	UNV			0.0200	UNV
MERCURY	MG/L	0.0002	U								
NICKEL	MG/L	0.0303	-			0.0390	NV			0.0050	UNV
OSMIUM	MG/L	0.0500	R								
POTASSIUM	MG/L	1.4200	-								
SELENIUM	MG/L	0.0020	UJ								
SILVER	MG/L	0.0117	-			0.0010	UNV			0.0010	UNV
SODIUM	MG/L	12.8000	-			25.9000	NV			27.7000	NV
THALLIUM	MG/L	0.0010	U								
TIN	MG/L	0.0300	R								
VANADIUM	MG/L	0.0196	-			0.0500	UNV			0.0500	UNV
ZINC	MG/L	0.0393	-			0.0540	NV			0.0610	NV
MISC											
1,2,3-TRICHLOROPROPANE	UG/L	5.0000	UJ								
1,2,4,5-TETRACHLOROBENZENE	UG/L	10.0000	U								
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	10.0000	U								
1,2-DIBROMOETHANE	UG/L	5.0000	U								
1,3,5-TRINITROBENZENE	UG/L	10.0000	U								
1,3-DINITROBENZENE	UG/L	10.0000	U								
1,4-NAPHTHOQUINONE	UG/L	10.0000	U								
1-NAPHTHYLAMINE	UG/L	120.0000	U								
2,3,4,6-TETRACHLOROPHENOL	UG/L	10.0000	U								
2,6-DICHLOROPHENOL	UG/L	10.0000	U								
2-ACETYLAMINOFLUORENE	UG/L	10.0000	U								
2-CHLORO-1,3-BUTADIENE	UG/L	5.0000	U								
2-NAPHTHYLAMINE	UG/L	170.0000	U								
2-PICOLINE	UG/L	70.0000	U								
3,3'-DIMETHYLBENZIDINE	UG/L	80.0000	U								
3-CHLOROPROPENE	UG/L	5.0000	R								
3-METHYLCHOLANTHRENE	UG/L	30.0000	U								
3-METHYLPHENOL	UG/L	10.0000	U								
4-AMINOBIPHENYL	UG/L	50.0000	UJ								
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000	UJ								
5-NITRO-O-TOLUIDINE	UG/L	20.0000	U								
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000	U								
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000	UJ								
ACETONITRILE	UG/L	200.0000	UJ								
ACETOPHENONE	UG/L	10.0000	U								

SAMPLE NUMBER:	066562			066652			066653			066746			066747		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
ACROLEIN	UG/L	10.0000		U												
ACROLEIN	UG/L	10.0000		U												
ACRYLONITRILE	UG/L	10.0000		UJ												
ANILINE	UG/L	10.0000		U												
ARAMITE	UG/L	10.0000		U												
DIALLATE	UG/L	10.0000		U												
DIBROMOMETHANE	UG/L	10.0000		U												
DICHLORODIFLUOROMETHANE	UG/L	200.0000		R												
DINOSEB	UG/L	20.0000		U												
DIPHENYLAMINE	UG/L	10.0000		U												
ETHYL CYANIDE	UG/L	100.0000		UJ												
ETHYL METHACRYLATE	UG/L	20.0000		U												
ETHYL METHANESULFONATE	UG/L	10.0000		U												
HEXACHLOROPHENE	UG/L	500.0000		R												
HEXACHLOROPROPENE	UG/L	20.0000		U												
IODOMETHANE	UG/L	5.0000		U												
ISODRIN	UG/L	0.0500		U												
ISOSAFROLE	UG/L	10.0000		U												
KEPONE	UG/L	0.1000		U												
METHACRYLONITRILE	UG/L	10.0000		R												
METHAPYRILENE	UG/L	40.0000		U												
METHYL METHACRYLATE	UG/L	10.0000		UJ												
METHYL METHANESULFONATE	UG/L	10.0000		U												
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000		U												
N-NITROSODIETHYLAMINE	UG/L	10.0000		U												
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000		U												
N-NITROSOMORPHOLINE	UG/L	10.0000		U												
N-NITROSOPIPERIDINE	UG/L	10.0000		U												
N-NITROSOPYRROLIDINE	UG/L	10.0000		U												
O-TOLUIDINE	UG/L	10.0000		UJ												
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000		U												
P-PHENYLENEDIAMINE	UG/L	50.0000		UJ												
PENTACHLOROBENZENE	UG/L	20.0000		U												
PENTACHLOROETHANE	UG/L	20.0000		U												
PENTACHLORONITROBENZENE	UG/L	20.0000		U												
PHENACETIN	UG/L	10.0000		U												
PRONAMIDE	UG/L	30.0000		U												
SAFROLE	UG/L	10.0000		U												
TRANS-1,2-DICHLOROETHENE	UG/L	5.0000		U												
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	20.0000		UJ												
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L	1.0000		UJ												
DISULFOTON	UG/L	1.0000		UJ												

SAMPLE NUMBER:		066562			066652			066653			066746			066747		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
FAMPHUR	UG/L	1.0000		UJ												
METHYL PARATHION	UG/L	0.0500		UJ												
PARATHION	UG/L	0.0500		UJ												
PHORATE	UG/L	1.0000		UJ												
THIONAZIN	UG/L	1.0000		UJ												
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U												
4,4'-DDE	UG/L	0.1000		U												
4,4'-DDT	UG/L	0.1000		U												
ALDRIN	UG/L	0.0500		U												
ALPHA-BHC	UG/L	0.0500		U												
ALPHA-CHLORDANE	UG/L	0.5000		U												
AROCLOR-1016	UG/L	0.5000		U												
AROCLOR-1221	UG/L	0.5000		U												
AROCLOR-1232	UG/L	0.5000		U												
AROCLOR-1242	UG/L	0.5000		U												
AROCLOR-1248	UG/L	0.5000		U												
AROCLOR-1254	UG/L	1.0000		U												
AROCLOR-1260	UG/L	1.0000		U												
BETA-BHC	UG/L	0.0500		U												
DELTA-BHC	UG/L	0.0500		U												
DIELDRIN	UG/L	0.1000		U												
ENDOSULFAN II	UG/L	0.1000		U												
ENDOSULFAN SULFATE	UG/L	0.1000		U												
ENDOSULFAN-I	UG/L	0.0500		U												
ENDRIN	UG/L	0.1000		U												
ENDRIN KETONE	UG/L	0.1000		U												
GAMMA-BHC (LINDANE)	UG/L	0.0500		U												
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U												
HEPTACHLOR EPOXIDE	UG/L	0.0500		U												
METHOXYCHLOR	UG/L	0.5000		U												
SULFOTEP	UG/L	1.0000		UJ												
TOXAPHENE	UG/L	1.0000		U												
RADIONUCLIDES																
URANIUM-238	PCI/L				1.0000		R				1.0000		R			
URANIUM, TOTAL	UG/L				2.5000	.3	R				2.7000	.3	R			
URANIUM-234	PCI/L				1.6700	.4	R				1.9100	.53	R			
THORIUM-230	PCI/L				1.0000		R				1.0000		R			
URANIUM-235/236	PCI/L				1.0000		R				1.0000		R			
THORIUM-228	PCI/L				1.0000		R				1.0000		R			

000939

SAMPLE NUMBER:	066562			066652			066653			066746			066747		
LAB:				IT						IT					
SUFFIX/FILTERFLAG:	-			NONE-UNF			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
TECHNETIUM-99	PCI/L				30.0000		R				30.0000		R			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		U												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U												
3-NITROANILINE	UG/L	50.0000		UJ												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		U												
4-NITROPHENOL	UG/L	50.0000		U												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZYL ALCOHOL	UG/L	10.0000		U												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U												
CHRYSENE	UG/L	10.0000		U												

SAMPLE NUMBER:		066562		066652			066653			066746			066747		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U												
DIBENZOFURAN	UG/L	10.0000	U												
DIETHYL PHTHALATE	UG/L	10.0000	U												
DIMETHYL PHTHALATE	UG/L	10.0000	U												
FLUORANTHENE	UG/L	10.0000	U												
FLUORENE	UG/L	10.0000	U												
HEXACHLOROBENZENE	UG/L	10.0000	U												
HEXACHLOROBUTADIENE	UG/L	10.0000	U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U												
HEXACHLOROETHANE	UG/L	10.0000	U												
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U												
ISOPHORONE	UG/L	10.0000	U												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U												
N-NITROSODIMETHYLAMINE	UG/L	10.0000	U												
N-NITROSODIPHENYLAMINE	UG/L	2.0000	J												
NAPHTHALENE	UG/L	10.0000	U												
NITROBENZENE	UG/L	10.0000	U												
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	10.0000	U												
P-CHLOROANILINE	UG/L	10.0000	UJ												
PENTACHLOROPHENOL	UG/L	50.0000	U												
PHENANTHRENE	UG/L	10.0000	U												
PHENOL	MG/L	2.0000	J												
PYRENE	UG/L	10.0000	U												
PYRIDINE	UG/L	50000.0000	UJ												
VOLATILES															
1,1,1,2-TETRACHLOROETHANE	UG/L	5.0000	U												
1,1,1-TRICHLOROETHANE	UG/L	5.0000	U												
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U												
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U												
1,1-DICHLOROETHANE	UG/L	5.0000	U				2.5000		UNV				2.5000		UNV
1,1-DICHLOROETHENE	UG/L	5.0000	U												
1,2-DICHLOROETHANE	UG/L	5.0000	U				2.5000		UNV				2.5000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000	U												
1,2-DICHLOROPROPANE	UG/L	5.0000	U												
2-BUTANONE	UG/L	10.0000	U												
2-HEXANONE	UG/L	10.0000	U												
4-METHYL-2-PENTANONE	UG/L	10.0000	U												
ACETONE	UG/L	2.0000	J				2.5000		UNV				2.5000		UNV
BENZENE	UG/L	5.0000	UJ												
BROMODICHLOROMETHANE	UG/L	5.0000	U												
BROMOFORM	UG/L	5.0000	U												

SAMPLE NUMBER:		066562		066652			066653			066746			066747		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOMETHANE	UG/L	10.0000		UJ												
CARBON DISULFIDE	UG/L	4.0000		J												
CARBON TETRACHLORIDE	UG/L	5.0000		U												
CHLOROBENZENE	UG/L	5.0000		UJ												
CHLOROETHANE	UG/L	10.0000		UJ												
CHLOROFORM	UG/L	5.0000		U												
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
DIBROMOCHLOROMETHANE	UG/L	5.0000		U												
ETHYLBENZENE	UG/L	5.0000		UJ												
ISOBUTYL ALCOHOL	UG/L	3000.0000		UJ												
METHYLENE CHLORIDE	UG/L	5.0000		U				2.5000		UNV				2.5000		UNV
STYRENE	UG/L	5.0000		UJ												
TETRACHLOROETHENE	UG/L	5.0000		U				2.5000		UNV				2.5000		UNV
TOLUENE	UG/L	5.0000		UJ				2.5000		UNV				2.5000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
TRICHLOROETHENE	UG/L	5.0000		U				2.5000		UNV				2.5000		UNV
TRICHLOROFLUOROMETHANE	UG/L	5.0000		U												
VINYL ACETATE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	5.0000		UJ												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066930			066934			EMGW_SYSGEN_135			EMGW_SYSGEN_136			EMGW_SYSGEN_138		
TASK:	3.7			3.7			GWMON			GWMON			GWMON		
LAB:	IT			IT			NET			NET			NET		
WELL OR BORING NUMBER:	1052			1052			1052			1052			1052		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	28-AUG-90			28-AUG-90			19-FEB-90			16-MAY-90			14-NOV-90		
NORTH COORDINATE:	482506.58			482506.58			482506.58			482506.58			482506.58		
EAST COORDINATE:	1380147.61			1380147.61			1380147.61			1380147.61			1380147.61		
QA TYPE:	NORMAL			DUPLICATE			NORMAL			NORMAL			NORMAL		
QC OF:				066930											
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													408.0000		NV
AMMONIA	MG/L													0.1000		NV
CHLORIDE	MG/L							8.0000		NV	7.0000		NV	8.0000		NV
FLUORIDE	MG/L							1.1300		NV	0.8200		NV	0.7300		NV
NITRATE, AS NITROGEN	MG/L							0.0700		NV	0.0400		NV			
NITRATE/NITRITE	MG/L													0.0900		NV
PH	STD													7.3400		NV
PHENOLS	MG/L							0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L													1.3700		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM													877.0000		NV
SULFATE	MG/L							101.0000		NV	83.0000		NV	97.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L													670.0000		NV
TOTAL ORGANIC CARBON	MG/L							1.0000		NV	8.0000		NV	6.0000		NV
TOTAL ORGANIC HALOGENS	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV
INORGANICS																
ALUMINUM	MG/L							3.3300		NV	0.2490		NV	8.0700		NV
ANTIMONY	MG/L										0.0250		UNV	0.0250		UNV
ARSENIC	MG/L							0.0060		NV	0.0025		UNV	0.0120		NV
BARIUM	MG/L							0.2000		UNV	0.2000		UNV	0.2250		NV
BERYLLIUM	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L										0.0010		UNV	0.0010		UNV
CALCIUM	MG/L							117.0000		NV	112.0000		NV	82.6000		NV
CHROMIUM	MG/L							0.0330		NV	0.0050		UNV	0.0050		UNV
COBALT	MG/L							0.0250		UNV	0.0250		UNV	0.0250		UNV
COPPER	MG/L							0.0250		UNV	0.0250		UNV	0.0250		UNV
CYANIDE	MG/L										0.0050		UNV	0.0050		UNV
IRON	MG/L							0.0500		UNV	1.6300		NV	1.8400		NV
LEAD	MG/L							0.0050		UNV	0.0050		UNV	0.0050		UNV

000943

SAMPLE NUMBER:	066930			066934			EMGW_SYSGEN_135			EMGW_SYSGEN_136			EMGW_SYSGEN_138		
LAB:							NET			NET			NET		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-UNF			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM MG/L							39.6000		NV	39.0000		NV	26.2000		NV
MANGANESE MG/L							0.1190		NV	0.0260		NV	0.0200		UNV
MERCURY MG/L										0.0002		UNV	0.0002		UNV
MOLYBDENUM MG/L										0.0250		UNV	0.0250		NV
NICKEL MG/L							0.0050		UNV	0.0050		UNV	0.0620		NV
POTASSIUM MG/L										1.4200		NV	2.6300		NV
SELENIUM MG/L										0.0025		UNV	0.0025		UNV
SILVER MG/L							0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM MG/L							218.0000		NV	14.2000		NV	27.5000		NV
THALLIUM MG/L										0.0100		UNV	0.0100		UNV
VANADIUM MG/L							0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC MG/L							0.0200		UNV	0.0200		UNV	0.0990		NV
MISC															
3-METHYLPHENOL UG/L										4.0000		UNV			
DIPHENYLAMINE UG/L										15.0000		UNV			
TRANS-1,2-DICHLOROETHENE UG/L													1.0000		UNV
PESTICIDES															
4,4'-DDD UG/L										0.2000		UNV			
4,4'-DDE UG/L										0.2000		UNV			
4,4'-DDT UG/L										0.2000		UNV			
ALDRIN UG/L										0.2000		UNV			
ALPHA-BHC UG/L										0.2000		UNV			
AROCLOR-1016 UG/L										0.2000		UNV			
AROCLOR-1221 UG/L										0.2000		UNV			
AROCLOR-1232 UG/L										0.2000		UNV			
AROCLOR-1242 UG/L										0.2000		UNV			
AROCLOR-1248 UG/L										0.2000		UNV			
AROCLOR-1254 UG/L										0.2000		UNV			
AROCLOR-1260 UG/L										0.2000		UNV			
BETA-BHC UG/L										0.2000		UNV			
CHLORDANE UG/L										0.2000		UNV			
DELTA-BHC UG/L										0.2000		UNV			
DIELDRIN UG/L										0.2000		UNV			
ENDOSULFAN II UG/L										0.2000		UNV			
ENDOSULFAN SULFATE UG/L										0.2000		UNV			
ENDOSULFAN-I UG/L										0.2000		UNV			
ENDRIN UG/L										0.0800		UNV			
ENDRIN ALDEHYDE UG/L										0.2000		UNV			
GAMMA-BHC (LINDANE) UG/L										0.2000		UNV			
HEPTACHLOR UG/L										0.2000		UNV			
HEPTACHLOR EPOXIDE UG/L										0.2000		UNV			

SAMPLE NUMBER:		066930			066934			EMGW_SYSGEN_135			EMGW_SYSGEN_136			EMGW_SYSGEN_138		
LAB:											NET					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
TOXAPHENE	UG/L										0.5000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L							4.1000		NV	0.2520		NV			
URANIUM, TOTAL	UG/L							12.4000		NV	1.0000		UNV			
URANIUM-234	PCI/L							6.7000		NV	0.3860		NV			
THORIUM-230	PCI/L										0.3720		NV			
RADIUM-226	PCI/L										1.0000		UNV			
URANIUM-235/236	PCI/L										0.2000		UNV			
THORIUM-232	PCI/L										0.3600		UNV			
THORIUM, TOTAL	UG/L										3.2000		UNV			
RADIUM-228	PCI/L										3.0000		UNV			
THORIUM-228	PCI/L										0.5580		NV			
NEPTUNIUM-237	PCI/L										0.5000		UNV			
PLUTONIUM-239/240	PCI/L										0.5000		UNV			
PLUTONIUM-238	PCI/L										0.5000		UNV			
STRONTIUM-90	PCI/L										1.0000		UNV			
TECHNETIUM-99	PCI/L							15.0000		UNV	24.0000		UNV			
RUTHENIUM-106	PCI/L										150.0000		UNV			
CESIUM-137	PCI/L										9.1000		UNV			
GROSS ALPHA	PCI/L										7.8000		UNV			
GROSS BETA	PCI/L										31.5000		NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U									
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	50.0000		U				4.0000		UNV			
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
2,4-DIMETHYLPHENOL	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
2,4-DINITROPHENOL	UG/L	50.0000		UJ	50.0000		UJ				4.0000		UNV			
2,4-DINITROTOLUENE	UG/L	10.0000		UJ	10.0000		UJ				15.0000		UNV			
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U				15.0000		UNV			
2-CHLOROETHYLVINYL ETHER	UG/L													10.0000		UNV
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		U									
2-METHYLPHENOL	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
2-NITROANILINE	UG/L	50.0000		UJ	50.0000		UJ				15.0000		UNV			
2-NITROPHENOL	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ	20.0000		UJ				15.0000		UNV			

SAMPLE NUMBER:		066930		066934		EMGW_SYSGEN_135			EMGW_SYSGEN_136			EMGW_SYSGEN_138		
LAB:		IT		IT					NET					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L	50.0000		UJ	50.0000		UJ				15.0000		UNV			
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		UJ	50.0000		UJ				4.0000		UNV			
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		U				15.0000		UNV			
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000		U				15.0000		UNV			
4-METHYLPHENOL	UG/L	10.0000		U	10.0000		U									
4-NITROANILINE	UG/L	50.0000		U	50.0000		U				15.0000		UNV			
4-NITROPHENOL	UG/L	50.0000		UJ	50.0000		UJ				4.0000		UNV			
ACENAPHTHENE	UG/L	10.0000		U	10.0000		U									
ACENAPHTHYLENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
ANTHRACENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
BENZO(A)ANTHRACENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
BENZO(A)PYRENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
BENZO(B)FLUORANTHENE	UG/L	10.0000		UJ	10.0000		UJ				4.0000		UNV			
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
BENZO(K)FLUORANTHENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
BENZOIC ACID	UG/L	50.0000		UJ	50.0000		UJ				4.0000		UNV			
BENZYL ALCOHOL	UG/L	10.0000		U	10.0000		U				40.0000		UNV			
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U	10.0000		U				15.0000		UNV			
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U	10.0000		U				15.0000		UNV			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UJ	10.0000		UJ				15.0000		UNV			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
BUTYL BENZYL PHTHALATE	UG/L	10.0000		UJ	10.0000		UJ				4.0000		UNV			
CHRYSENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ	10.0000		UJ				4.0000		UNV			
DIBENZOFURAN	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
DIETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
DIMETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
FLUORANTHENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
FLUORENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
HEXACHLOROBENZENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
HEXACHLOROBUTADIENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		UJ	10.0000		UJ				4.0000		UNV			
HEXACHLOROETHANE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
ISOPHORONE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		UJ	10.0000		UJ				4.0000		UNV			
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
NAPHTHALENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
NITROBENZENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
P-CHLOROANILINE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			
PENTACHLOROPHENOL	UG/L	50.0000		U	50.0000		U				4.0000		UNV			
PHENANTHRENE	UG/L	10.0000		U	10.0000		U				4.0000		UNV			

SAMPLE NUMBER:		066930		066934		EMGW_SYSGEN_135			EMGW_SYSGEN_136			EMGW_SYSGEN_138		
LAB:		IT		IT					NET					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			NONE-UNF			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
PHENOL	MG/L	4.0000	J	10.0000	U				4.0000		UNV			
PYRENE	UG/L	10.0000	UJ	10.0000	UJ				4.0000		UNV			
PYRIDINE	UG/L								4.0000		UNV			
VOLATILES														
1,1,1-TRICHLOROETHANE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	5.0000	U	5.0000	U	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	5.0000	U	5.0000	U	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	10.0000	U	10.0000	U				2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	10.0000	U	10.0000	U				2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	10.0000	U	4.0000	J				2.0000		UNV	2.0000		UNV
ACETONE	UG/L	10.0000	U	11.0000	UJ	2.0000		UNV	16.6000		NV	2.0000		UNV
BENZENE	UG/L	5.0000	UJ	5.0000	UJ				1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	10.0000	U	10.0000	U				1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	5.0000	UJ	5.0000	UJ				1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	10.0000	U	10.0000	U							1.0000		UNV
CHLOROFORM	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	10.0000	U	10.0000	UJ				1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	5.0000	UJ	5.0000	UJ				1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	13.0000	U	5.0000	U	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L	5.0000	UJ	5.0000	UJ				1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	5.0000	U	5.0000	U	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	5.0000	UJ	5.0000	UJ	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U	5.0000	U				1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	5.0000	U	5.0000	U	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	10.0000	U	10.0000	U				2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	10.0000	U	10.0000	U				1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	5.0000	UJ	5.0000	UJ				1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_139	EMGW_SYSGEN_141	EMGW_SYSGEN_142	GW930118-11	GW930429-4
TASK:	GWMON	GWMON	GWMON	RCRA	50.03.23
LAB:	NET	NET	NET	NET	LOCKHEED
WELL OR BORING NUMBER:	1052	1052	1052	1052	1052
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-FEB-91	18-JUL-91	03-OCT-91	18-JAN-93	29-APR-93
NORTH COORDINATE:	482506.58	482506.58	482506.58	482506.58	482506.58
EAST COORDINATE:	1380147.61	1380147.61	1380147.61	1380147.61	1380147.61
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	370.0000		NV	378.0000		NV	356.0000		NV	398.0000		NV	440.0000		-
ALLYL CHLORIDE	UG/L										5.0000		UNV			
AMMONIA	MG/L	0.0200		UNV	0.0200		UNV	0.0300		NV	0.0200		UNV	0.0980		UJ
BICARBONATE ALKALINITY	MG/L										512.0000		NV	430.0000		-
CARBONATE ALKALINITY	MG/L										3.0000		UNV	30.0000		U
CHLORIDE	MG/L	6.0000		NV	7.0000		NV	7.0000		NV	21.0000		NV	7.3000		-
FLUORIDE	MG/L	0.9500		NV	0.9200		NV	1.0400		NV	0.7000		NV	1.0000		-
NITRATE	MG/L										0.0600		NV			
NITRATE, AS NITROGEN	MG/L	0.1000		NV	0.1000		NV	0.0800		NV						
NITRATE/NITRITE	MG/L													0.0690		-
NITRITE, AS NITROGEN	MG/L										0.0200		UNV			
PH	STD	7.3400		NV	7.3000		NV	7.3300		NV	7.2200		NV	7.6000		-
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.1500		U
PHOSPHORUS	MG/L	0.8600		NV	0.4700		NV	0.2100		NV	1.5400		NV	0.6200		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	771.0000		NV	804.0000		NV	728.0000		NV	1070.0000		NV	940.0000		-
SULFATE	MG/L	173.0000		NV	87.0000		NV	85.0000		NV	129.0000		NV	99.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	520.0000		NV	444.0000		NV	426.0000		NV	619.0000		NV	480.0000		-
TOTAL ORGANIC CARBON	MG/L	12.0000		NV	3.0000		NV	8.0000		NV	1.0000		NV	1.2000		-
TOTAL ORGANIC HALIDES	MG/L										0.0100		UNV	0.0450		U
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV						
TOTAL ORGANIC NITROGEN	MG/L													0.0980		UJ
TOTAL SOLIDS	MG/L										619.0000		NV	1400.0000		-
INORGANICS																
ALUMINUM	MG/L	7.8900		NV	4.2900		NV	0.5400		NV	0.3800		NV	0.3540		-
ANTIMONY	MG/L	0.0250		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0310		UJ
ARSENIC	MG/L	0.0025		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0020		U
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.0605		-
BERYLLIUM	MG/L	0.0100		UNV	0.0500		UNV	0.0050		UNV	0.0050		UNV	0.0010		U

SAMPLE NUMBER:		EMGW_SYSGEN_139			EMGW_SYSGEN_141			EMGW_SYSGEN_142			GW930118-11			GW930429-4		
LAB:		NET			NET			NET			NET			LOCKHEED		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0020		U
CALCIUM	MG/L	137.0000		NV	130.0000		NV	100.0000		NV	99.0000		NV	117.0000		J
CHROMIUM	MG/L	0.0050		UNV	0.0020		UNV	0.0023		NV	0.0020		UNV	0.0030		U
COBALT	MG/L	0.0250		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0080		U
COPPER	MG/L	0.0250		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0040		U
CYANIDE	MG/L	0.0100		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0200		U
IRON	MG/L	0.0500		UNV	0.1000		UNV	0.7300		NV	0.4200		NV	0.5310		U
LEAD	MG/L	0.0050		UNV	0.0050		UNV	0.0030		UNV	0.0030		UNV	0.0010		U
MAGNESIUM	MG/L	40.8000		NV	46.0000		NV	44.0000		NV	52.6000		NV	49.7000		J
MANGANESE	MG/L	0.0200		UNV	0.1960		NV	0.0150		UNV	0.0150		UNV	0.0110		U
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		U
MOLYBDENUM	MG/L	0.0250		UNV	0.0180		NV	0.0100		UNV	0.0110		NV	0.0150		U
NICKEL	MG/L	0.0050		UNV	0.0340		NV	0.0100		UNV	0.0100		UNV	0.0310		U
POTASSIUM	MG/L	2.2600		NV	1.5000		NV	1.3000		NV	1.7000		NV	1.7200		-
SELENIUM	MG/L	0.0025		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0020		U
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0043		U
SODIUM	MG/L	19.5000		NV	27.0000		NV	13.0000		NV	40.0000		NV	27.9000		J
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		U
VANADIUM	MG/L	0.1040		NV	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0070		U
ZINC	MG/L	0.1150		NV	0.0500		NV	0.0200		UNV	0.0200		UNV	0.0138		U
MISC																
1,2,3-TRICHLOROPROPANE	UG/L										5.0000		UNV			
1,2-DIBROMO-3-CHLOROPROPANE	UG/L										2.0000		UNV			
1,2-DIBROMOETHANE	UG/L										2.0000		UNV			
2-CHLORO-1,3-BUTADIENE	UG/L										5.0000		UNV			
ACROLEIN	UG/L										50.0000		UNV			
ACROLEIN	UG/L										50.0000		UNV			
ACRYLONITRILE	UG/L										50.0000		UNV			
DICHLORODIFLUOROMETHANE	UG/L										10.0000		UNV			
ETHYL CYANIDE	UG/L										20.0000		UNV			
ETHYL METHACRYLATE	UG/L										5.0000		UNV			
IODOMETHANE	UG/L										5.0000		UNV			
METHACRYLONITRILE	UG/L										5.0000		UNV			
METHYL METHACRYLATE	UG/L										5.0000		UNV			
PENTACHLOROETHANE	UG/L										5.0000		UNV			
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV			
TRANS-1,4-DICHLORO-2-BUTENE	UG/L										20.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.1800		NV										1.1000	.1	J
URANIUM, TOTAL	UG/L	2.8600		NV	1.6000		NV	1.3000		NV	3.5000		UNV	2.8000	.2	J
URANIUM-234	PCI/L	1.4200		NV										1.8000	.4	J

000949

SAMPLE NUMBER:		EMGW_SYSGEN_139			EMGW_SYSGEN_141			EMGW_SYSGEN_142			GW930118-11			GW930429-4		
LAB:		IT												CORE		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L	0.5180		NV							0.2000	.1	UNV	0.2000	.1	UJ
RADIUM-226	PCI/L	1.0000		UNV							1.0000	.3	UNV	1.0000	.2	U
URANIUM-235/236	PCI/L	0.2000		UNV										0.2000	.8	U
THORIUM-232	PCI/L	0.6700		NV							0.2000	.1	UNV	0.2000	.1	UJ
THORIUM, TOTAL	UG/L	6.0400		NV							0.8000		UNV			
RADIUM-228	PCI/L	3.0000		UNV							3.0000	1.3	UNV	3.0000	1	U
THORIUM-228	PCI/L	1.5800		NV							0.3000	.2	NV	0.2000	.1	UJ
NEPTUNIUM-237	PCI/L	0.5000		UNV												
PLUTONIUM-239/240	PCI/L	0.5000		UNV												
PLUTONIUM-238	PCI/L	0.5000		UNV												
TECHNETIUM-99	PCI/L	23.5000		NV										15.8000	8.4	J
RUTHENIUM-106	PCI/L	150.0000		UNV												
CESIUM-137	PCI/L	7.8000		UNV												
GROSS ALPHA	PCI/L	25.9000		NV							3.9000	2.6	NV	0.0000	3.2	UNV
GROSS BETA	PCI/L	24.5000		NV							9.4000	3.3	NV	0.0000	3.2	UNV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV	10.0000		UNV			
CUMENE	UG/L										1.0000		UNV			
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L										1.0000		UNV			
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				10.0000		U
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		UJ
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U

SAMPLE NUMBER:		EMGW_SYSGEN_139			EMGW_SYSGEN_141			EMGW_SYSGEN_142			GW930118-11			GW930429-4		
LAB:		NET			NET			NET			NET			LOCKHEED		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRICHLOROFLUOROMETHANE	UG/L										1.0000		UNV			
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV			
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003214			003405			003706			003910			EMGW_SYSGEN_146		
TASK:		3.2.4			3.2.4			3.2.4			3.2.4			GWMON		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1053			1053			1053			1053			1053		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		20-MAY-88			07-AUG-88			15-NOV-88			26-FEB-89			30-MAR-90		
NORTH COORDINATE:		479920.97			479920.97			479920.97			479920.97			479920.97		
EAST COORDINATE:		1380342.06			1380342.06			1380342.06			1380342.06			1380342.06		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	3.5000		-				1.4100		J	0.4000		U			
CHLORIDE	MG/L	12.3000		-				11.0000		J	6.3000		U			
FLUORIDE	MG/L	0.7400		-				0.7800		-	0.6000		-			
NITRATE	MG/L	0.1000		J				0.1000		R	0.0300		-			
PHENOLS	MG/L	0.0400		-				0.0100		UJ	0.0510		-			
PHOSPHORUS	MG/L	0.7400		-				0.8720		-	0.1600		-			
SULFATE	MG/L	101.0000		-				103.0000		-	62.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L							16.1000		J	0.8000		-			
TOTAL ORGANIC HALIDES	MG/L							0.0500		U	0.0500		U			
TOTAL ORGANIC NITROGEN	MG/L	0.1000		U				14.7000		J	0.4000		-			
INORGANICS																
ARSENIC	MG/L	0.2000		U				0.0020		U	0.0030		U			
BARIUM	MG/L	0.1130		-				0.1450		-	0.1300		-			
CADMIUM	MG/L	0.0050		U				0.0020		U	0.0070		-			
CALCIUM	MG/L	85.7000		-				109.0000		-	100.0000		-			
CHROMIUM	MG/L	0.0200		U				0.0200		U	0.0300		-			
COPPER	MG/L	0.0100		U				0.0100		U	0.0100		U			
IRON	MG/L	0.1100		-				0.0420		J	0.0500		U			
LEAD	MG/L	0.0500		U				0.0020		UJ	0.0020		U			
MAGNESIUM	MG/L	70.2000		-				68.4000		-	76.0000		-			
MANGANESE	MG/L	0.0200		U				0.0330		-	0.2200		-			
MERCURY	MG/L	0.0002		U				0.0002		U	0.0002		J			
MOLYBDENUM	MG/L	0.0400		-				0.0200		U	0.0200		-			
NICKEL	MG/L	0.0200		U				0.0200		U	0.0300		U			
POTASSIUM	MG/L	1.4500		-				0.5500		-	0.3400		U			
SELENIUM	MG/L	0.2000		U				0.0020		UJ	0.0050		U			
SILVER	MG/L	0.0540		J				0.0100		U	0.0100		U			
SODIUM	MG/L	9.7400		-				12.4000		-	11.0000		-			

000952

5704

SAMPLE NUMBER:		003214			003405			003706			003910			EMGW_SYSGEN_146		
LAB:		IT						IT			IT					
SUFFIX/FILTERFLAG:		NONE-FIL			-			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	12.6000	1.5	R	16.3000	2	J	14.5000	2.1	J	19.4000	2.6	-	18.1000		NV
URANIUM, TOTAL	UG/L	37.0000	8	J	35.0000	6	-	42.0000	9	-	53.0000	9	J	54.2000		NV
URANIUM-234	PCI/L	12.2000	1.5	R	15.9000	2	J	14.6000	2.1	J	20.0000	2.7	-	18.2000		NV
THORIUM-230	PCI/L	1.0000		R	1.0000		U	1.0000		UJ	1.0000		U			
RADIUM-226	PCI/L	2.6000	.7	-	1.0000		R	1.7000	.4	-	1.3000	.3	J			
URANIUM-235/236	PCI/L	1.0000		R	1.1000	.3	J	1.0000		UJ	1.0000		U	1.0300		NV
THORIUM-232	PCI/L	1.0000	.4	R	1.0000		U	1.1000	.6	J	1.0000		U			
THORIUM, TOTAL	UG/L				7.0000	3	J	10.0000	6	J	3.0000	2	-			
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		U	3.0000		UJ			
THORIUM-228	PCI/L	2.2000	.6	R	1.0000		U	1.0000		UJ	1.0000		U			
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U			
PLUTONIUM-239/240	PCI/L	1.0000		R	1.0000		U	1.0000		UJ	1.0000		U			
PLUTONIUM-238	PCI/L	1.0000		R	1.0000		U	1.0000		UJ	1.0000		U			
STRONTIUM-90	PCI/L	5.0000		UJ	5.0000		U	5.0000		U	5.0000		U			
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		UJ	30.0000		UJ	30.0000		UJ			
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R	150.0000		R			
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R	20.0000		R			

000953

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_147			EMGW_SYSGEN_148			EMGW_SYSGEN_149			003246			003403
TASK:		GWMON			GWMON			GWMON			3.2.4			3.2.4
LAB:		IT			NET			NET			IT			IT
WELL OR BORING NUMBER:		1053			1053			1053			1054			1054
DEPTH:		-			-			-			-			-
DATE COLLECTED:		26-JUN-90			28-JUN-90			26-SEP-90			25-MAY-88			07-AUG-88
NORTH COORDINATE:		479920.97			479920.97			479920.97			480050.26			480050.26
EAST COORDINATE:		1380342.06			1380342.06			1380342.06			1381524.14			1381524.14
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							460.0000		NV						
AMMONIA	MG/L										0.3000		-			
CHLORIDE	MG/L				7.0000		NV	8.0000		NV	25.2000		NV			
FLUORIDE	MG/L							0.9100		NV	0.4500		NV			
NITRATE	MG/L										20.4000		NV			
NITRATE, AS NITROGEN	MG/L				0.5200		NV	0.0200		UNV						
PH	STD							7.0100		NV						
PHENOLS	MG/L							0.0060		NV	0.0100		UNV			
PHOSPHORUS	MG/L										0.3850		-			
SPECIFIC CONDUCTIVITY	UMHOS/CM							948.0000		NV						
SULFATE	MG/L				69.0000		NV	61.0000		NV	114.0000		NV			
TOTAL DISSOLVED SOLIDS	MG/L							565.0000		NV						
TOTAL ORGANIC CARBON	MG/L				3.0000		NV	6.0000		NV						
TOTAL ORGANIC HALOGENS	MG/L				0.0100		UNV	0.0100		UNV						
TOTAL ORGANIC NITROGEN	MG/L										0.4000		-			
INORGANICS																
ARSENIC	MG/L										0.2000		U			
BARIUM	MG/L										0.1030		-			
CADMIUM	MG/L										0.0050		U			
CALCIUM	MG/L										108.0000		-			
CHROMIUM	MG/L										0.0200		U			
COPPER	MG/L										0.0100		U			
IRON	MG/L										0.7900		-			
LEAD	MG/L										0.0500		UJ			
MAGNESIUM	MG/L										43.3000		-			
MANGANESE	MG/L										0.2420		-			
MERCURY	MG/L										0.0002		U			
MOLYBDENUM	MG/L										0.0300		-			

000954

5704

SAMPLE NUMBER:		EMGW_SYSGEN_147			EMGW_SYSGEN_148			EMGW_SYSGEN_149			003246			003403		
LAB:											IT-KNOX					
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L										0.0210		-			
POTASSIUM	MG/L										2.9200		-			
SELENIUM	MG/L										0.2000		U			
SILVER	MG/L										0.0100		U			
SODIUM	MG/L										23.1000		-			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L	17.3000		NV							93.9000	12	-	62.9000	8.4	J
URANIUM, TOTAL	UG/L	51.8000		NV							326.0000	52	-	169.0000	27	-
URANIUM-234	PCI/L	18.2000		NV							87.3000	11	-	62.9000	8.4	J
THORIUM-230	PCI/L	1.8400		NV							1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		UNV							1.0000		U	1.0000		R
URANIUM-235/236	PCI/L	0.9390		NV							5.7000	1.1	-	4.5000	1	J
THORIUM-232	PCI/L	0.3100		UNV							1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L	2.8000		UNV										5.0000	3	J
RADIUM-228	PCI/L	3.0000		UNV							3.0000		U	3.0000		U
THORIUM-228	PCI/L	1.2300		NV							1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L										1.0000		U	1.0000		UJ
PLUTONIUM-239/240	PCI/L										1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L										1.0000		U	1.0000		U
STRONTIUM-90	PCI/L										5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L										30.0000		U	30.0000		UJ
RUTHENIUM-106	PCI/L										150.0000		R	150.0000		R
CESIUM-137	PCI/L										20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	35.1000		NV												
GROSS BETA	PCI/L	46.2000		NV												
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV						
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV						
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV						
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV						
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV						
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV						
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	1.0000		UNV						

000355

SAMPLE NUMBER:	EMGW_SYSGEN_147	EMGW_SYSGEN_148	EMGW_SYSGEN_149	003246	003403
LAB:		NET	NET		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV	1.0000		UNV						
2-BUTANONE	UG/L				2.0000		UNV	2.0000		UNV						
2-HEXANONE	UG/L				2.0000		UNV	2.0000		UNV						
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	2.0000		UNV						
ACETONE	UG/L				2.0000		UNV	2.0000		UNV						
BENZENE	UG/L				1.0000		UNV	1.0000		UNV						
BROMODICHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV						
BROMOFORM	UG/L				1.0000		UNV	1.0000		UNV						
BROMOMETHANE	UG/L				1.0000		UNV	1.0000		UNV						
CARBON DISULFIDE	UG/L				1.0000		UNV	1.0000		UNV						
CARBON TETRACHLORIDE	UG/L				1.0000		UNV	1.0000		UNV						
CHLOROBENZENE	UG/L				1.0000		UNV	1.0000		UNV						
CHLOROETHANE	UG/L							1.0000		UNV						
CHLOROFORM	UG/L				1.0000		UNV	1.0000		UNV						
CHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV						
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV						
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV						
ETHYLBENZENE	UG/L				1.0000		UNV	1.0000		UNV						
METHYLENE CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV						
STYRENE	UG/L				1.0000		UNV	1.0000		UNV						
TETRACHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV						
TOLUENE	UG/L				1.0000		UNV	1.0000		UNV						
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV						
TRICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV						
VINYL ACETATE	UG/L				2.0000		UNV	2.0000		UNV						
VINYL CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV						
XYLENES, TOTAL	UG/L				1.0000		UNV	1.0000		UNV						

000956

5 of 4

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003704			003911			120237			120237F			120240			
TASK:		3.2.4			3.2.4			50.03.23			50.03.23			50.03.23			
LAB:		IT			IT			DATACHEM			DATACHEM			CORE			
WELL OR BORING NUMBER:		1054			1054			1054			1054			1054			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		15-NOV-88			26-FEB-89			23-JUN-93			23-JUN-93			23-JUN-93			
NORTH COORDINATE:		480050.26			480050.26			480050.26			480050.26			480050.26			
EAST COORDINATE:		1381524.14			1381524.14			1381524.14			1381524.14			1381524.14			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
ALKALINITY AS CACO3	MG/L							300.0000		-							
AMMONIA	MG/L	0.1000		UJ	0.2000		U	0.0500		U							
CHLORIDE	MG/L	25.0000		J	27.0000		U	16.0000		-							
FLUORIDE	MG/L	0.5000		-	0.3000		-	0.4000		-							
NITRATE	MG/L	9.0900		J	9.9000		-										
PHENOLS	MG/L	0.0800		J	0.0080		-	0.0060		-							
PHOSPHORUS	MG/L	0.0200		U	0.6400		-	1.7000		-							
SULFATE	MG/L	99.3000		-	120.0000		-	84.0000		-							
SULFIDE	MG/L							1.0000		UJ							
TOTAL KJELDAHL NITROGEN	MG/L	0.6400		J	0.9000		-	0.1000		U							
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0100		UJ							
TOTAL ORGANIC NITROGEN	MG/L	0.6400		J	0.7000		-	0.1000		-							
INORGANICS																	
ALUMINUM	MG/L							4.2900		J	0.0936		J				
ANTIMONY	MG/L							0.0157		U	0.0157		U				
ARSENIC	MG/L	0.0020		U	0.0030		U	0.0020		-	0.0020		U				
BARIUM	MG/L	0.1240		-	0.1100		-	0.1280		-	0.1000		-				
BERYLLIUM	MG/L							0.0004		U	0.0003		U				
CADMIUM	MG/L	0.0040		-	0.0050		-	0.0012		U	0.0012		U				
CALCIUM	MG/L	126.0000		-	130.0000		-	131.0000		-	107.0000		-				
CHROMIUM	MG/L	0.0200		U	0.0300		-	0.0143		U	0.0031		U				
COBALT	MG/L							0.0076		U	0.0034		U				
COPPER	MG/L	0.0100		U	0.0100		U	0.0101		U	0.0024		U				
CYANIDE	MG/L							0.0100		UJ	0.0100		UJ				
IRON	MG/L	0.0050		U	0.0600		U	8.8900		-	0.0238		U				
LEAD	MG/L	0.0020		UJ	0.0020		U	0.0036		J	0.0010		U				
MAGNESIUM	MG/L	45.1000		-	44.0000		-	45.7000		-	39.8000		-				
MANGANESE	MG/L	0.0450		-	0.0160		-	0.3060		-	0.1080		-				

000957

SAMPLE NUMBER:		003704			003911			120237			120237F			120240		
LAB:		IT			IT			DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U	0.0003		J	0.0002		U	0.0002		U			
MOLYBDENUM	MG/L	0.0530		U	0.0200		-									
NICKEL	MG/L	0.0200		U	0.0300		U	0.0160		-	0.0070		U			
POTASSIUM	MG/L	2.2000		-	1.9000		-	2.4200		-	1.3800		-			
SELENIUM	MG/L	0.0020		UJ	0.0050		U	0.0021		R	0.0021		R			
SILVER	MG/L	0.0100		U	0.0100		U	0.0029		UJ	0.0029		UJ			
SODIUM	MG/L	24.5000		-	26.0000		-	21.8000		-	20.7000		-			
THALLIUM	MG/L							0.0010		U	0.0010		U			
VANADIUM	MG/L							0.0090		U	0.0029		U			
ZINC	MG/L							0.0574		J	0.0040		UJ			
RADIONUCLIDES																
URANIUM-238	PCI/L	41.3000	5.5	J	39.6000	5.1	-							35.7000	7.7	J
URANIUM, TOTAL	UG/L	142.0000	84	-	138.0000	23	J							70.5000	4.9	-
URANIUM-234	PCI/L	40.6000	5.5	J	39.7000	5.1	-							27.0000	5.9	J
THORIUM-230	PCI/L	1.0000		UJ	1.0000		U							0.3000	.2	UJ
RADIUM-226	PCI/L	1.0000		U	1.0000		UJ							4.8000	.8	J
URANIUM-235/236	PCI/L	1.9000	.6	J	1.8000	.5	-							5.4000	1.6	J
THORIUM-232	PCI/L	1.0000		UJ	1.0000		U							0.4000	.3	J
THORIUM, TOTAL	UG/L	4.0000		UJ	7.0000	4	-							3.6481	.3	NV
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ							3.2000	1.4	-
THORIUM-228	PCI/L	1.0000		UJ	1.0000		U							0.6000	.7	J
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		U									
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		U									
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		U									
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U									
TECHNETIUM-99	PCI/L	30.0000		UJ	40.5000	16.2	J							68.7000	8.3	J
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R									
CESIUM-137	PCI/L	20.0000		R	20.0000		R									
GROSS ALPHA	PCI/L													22.6000	5.8	NV
GROSS BETA	PCI/L													76.4000	6.5	NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						

000958

5704

SAMPLE NUMBER:		003704			003911			120237			120237F			120240		
LAB:								DATACHEM								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

000959

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120240F				120241F				EMGW_SYSGEN_150				EMGW_SYSGEN_151				EMGW_SYSGEN_152	
TASK:		50.03.23				50.03.23				GWMON				GWMON				GWMON	
LAB:		CORE				CORE				NET				NET				NET	
WELL OR BORING NUMBER:		1054				1054				1054				1054				1054	
DEPTH:		-				-				-				-				-	
DATE COLLECTED:		23-JUN-93				25-JUN-93				25-JUN-90				19-SEP-90				10-DEC-90	
NORTH COORDINATE:		480050.26				480050.26				480050.26				480050.26				480050.26	
EAST COORDINATE:		1381524.14				1381524.14				1381524.14				1381524.14				1381524.14	
QA TYPE:		NORMAL				NORMAL				NORMAL				NORMAL				NORMAL	
QC OF:																			
SUFFIX/FILTERFLAG:		NONE-FIL				NONE-FIL				NONE-UNF				NONE-UNF				NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)			
GENERAL CHEMISTRY																			
ALKALINITY AS CACO3	MG/L										288.0000		NV	303.0000		NV			
AMMONIA	MG/L													0.0200		UNV			
CHLORIDE	MG/L							19.0000		NV	22.0000		NV	20.0000		NV			
FLUORIDE	MG/L										0.4200		NV	0.2500		NV			
NITRATE, AS NITROGEN	MG/L							17.0000		NV	8.6600		NV						
NITRATE/NITRITE	MG/L													12.9000		NV			
PH	STD										7.2400		NV	6.6100		NV			
PHENOLS	MG/L										0.0090		NV	0.0050		UNV			
PHOSPHORUS	MG/L													0.1800		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM										896.0000		NV	760.0000		NV			
SULFATE	MG/L							113.0000		NV	125.0000		NV	86.0000		NV			
TOTAL DISSOLVED SOLIDS	MG/L										585.0000		NV	616.0000		NV			
TOTAL ORGANIC CARBON	MG/L							1.0000		NV	3.0000		NV	1.0000		UNV			
TOTAL ORGANIC HALOGENS	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV			
INORGANICS																			
CYANIDE	MG/L													0.0050		UNV			
MISC																			
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV			
RADIONUCLIDES																			
URANIUM-238	PCI/L	15.6000	1.9	J	15100.0000	2310	J	19.4000		NV				17.4000		NV			
URANIUM, TOTAL	UG/L	48.7000	3.4	-	56100.0000	3930	J	58.2000		NV				83.5000		NV			
URANIUM-234	PCI/L	15.3000	1.8	J	13800.0000	2150	J	19.1000		NV				22.2000		NV			
THORIUM-230	PCI/L	0.3000	.2	UJ	0.3000	.2	J	0.9040		NV				0.7500		UNV			
RADIUM-226	PCI/L	1.0000	.3	U	1.0000	.2	U	1.0200		NV				1.0000		UNV			

000960

R7047

SAMPLE NUMBER:		120240F			120241F			EMGW_SYSGEN_150			EMGW_SYSGEN_151			EMGW_SYSGEN_152		
LAB:		CORE			CORE			IT						IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L	0.5000	.3	J	1010.0000	331	J	1.1600		NV				1.5000		UNV
THORIUM-232	PCI/L	0.2000	.3	UJ	0.2000	.3	UJ	0.7600		UNV				0.7500		UNV
THORIUM, TOTAL	UG/L							6.8000		UNV				6.7000		UNV
RADIUM-228	PCI/L	3.1000	1.6	U	3.0000	1.5	U	3.0000		UNV				3.0000		UNV
THORIUM-228	PCI/L	0.2000	.8	UJ	0.3000	.4	J	0.7600		UNV				1.3900		NV
TECHNETIUM-99	PCI/L	84.9000	10.7	-	795.0000	49.3	J									
GROSS ALPHA	PCI/L	31.9000	3.4	NV	23500.0000	143	NV	14.0000		UNV				80.6000		NV
GROSS BETA	PCI/L	72.2000	3.1	NV	11700.0000	55.7	NV	139.0000		NV				148.0000		NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE	UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L							2.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L							9.6000		NV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV

000961

SAMPLE NUMBER:	120240F	120241F	EMGW_SYSGEN_150	EMGW_SYSGEN_151	EMGW_SYSGEN_152
LAB:			NET	NET	NET
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_153			003221			003407			003708			003912		
TASK:	GWMON			3.2.4			3.2.4			3.2.4			3.2.4		
LAB:	NET			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1054			1055			1055			1055			1055		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	20-MAR-91			22-MAY-88			07-AUG-88			15-NOV-88			26-FEB-89		
NORTH COORDINATE:	480050.26			481476.15			481476.15			481476.15			481476.15		
EAST COORDINATE:	1381524.14			1380703.31			1380703.31			1380703.31			1380703.31		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	290.0000		NV												
AMMONIA	MG/L	0.1100		NV	0.5000		U							0.1000		U
CHLORIDE	MG/L	18.0000		NV	9.6000		-							5.1000		U
FLUORIDE	MG/L	0.2800		NV	0.6500		J							0.3000		-
NITRATE	MG/L				0.1000		-							0.4200		-
NITRATE, AS NITROGEN	MG/L	12.9000		NV												
PH	STD	7.3300		NV												
PHENOLS	MG/L	0.0050		UNV	0.0100		J							0.0100		-
PHOSPHORUS	MG/L	0.3600		NV	7.4000		-							0.1300		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	836.0000		NV												
SULFATE	MG/L	136.0000		NV	259.0000		-							250.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	542.0000		NV												
TOTAL KJELDAHL NITROGEN	MG/L				3.4300		J							0.7000		-
TOTAL ORGANIC CARBON	MG/L	12.0000		NV												
TOTAL ORGANIC HALIDES	MG/L													0.0500		U
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV												
TOTAL ORGANIC NITROGEN	MG/L				3.4300		J							0.6000		-
INORGANICS																
ALUMINUM	MG/L	1.1100		NV												
ANTIMONY	MG/L	0.0250		UNV												
ARSENIC	MG/L	0.0050		NV	0.0020		UJ							0.0030		U
BARIUM	MG/L	0.2000		UNV	0.0430		J							0.0400		-
BERYLLIUM	MG/L	0.0100		UNV												
CADMIUM	MG/L	0.0010		UNV	0.0020		UJ							0.0050		U
CALCIUM	MG/L	144.0000		NV	118.0000		J							130.0000		-
CHROMIUM	MG/L	0.0100		NV	0.0200		UJ							0.0300		-
COBALT	MG/L	0.0250		UNV												
COPPER	MG/L	0.0250		UNV	0.0100		UJ							0.0100		U

000963

SAMPLE NUMBER:		EMGW_SYSGEN_153		003221			003407			003708			003912		
LAB:		NET		IT									IT		
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CYANIDE	MG/L	0.0050		UNV												
IRON	MG/L	2.3400		NV	0.0830		UJ							0.0500		U
LEAD	MG/L	0.0050		UNV	0.0020		J							0.0020		U
MAGNESIUM	MG/L	58.0000		NV	36.2000		J							38.0000		-
MANGANESE	MG/L	0.2750		NV	0.0790		J							0.0120		-
MERCURY	MG/L	0.0002		UNV	0.0002		U							0.0003		J
MOLYBDENUM	MG/L	0.0250		UNV	0.0330		J							0.0100		-
NICKEL	MG/L	0.0080		NV	0.0200		UJ							0.0300		U
POTASSIUM	MG/L	2.1500		NV	1.3600		J							1.7000		-
SELENIUM	MG/L	0.0025		UNV	0.0190		J							0.0050		U
SILVER	MG/L	0.0010		UNV	0.0100		UJ							0.0100		U
SODIUM	MG/L	23.5000		NV	15.1000		J							30.0000		-
THALLIUM	MG/L	0.0100		UNV												
VANADIUM	MG/L	0.0500		UNV												
ZINC	MG/L	0.0320		NV												
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L	38.8000		NV	3.7000	.6	J	3.5000	.6	J	8.6000	1.5	J	4.9000	.9	-
URANIUM, TOTAL	UG/L	69.1000		NV	9.0000	1	R	9.0000	1	-	22.0000	5	-	13.0000	2	J
URANIUM-234	PCI/L	37.4000		NV	4.8000	.8	J	4.7000	.8	J	9.2000	1.5	J	5.9000	1	-
THORIUM-230	PCI/L	0.3100		UNV	3.1000	1	J	1.0000		U	1.0000		UJ	1.1000		U
RADIUM-226	PCI/L	1.0000		UNV	1.0000		U	1.0000		R	1.0000		U	1.5000	.3	J
URANIUM-235/236	PCI/L	2.7600		NV	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U
THORIUM-232	PCI/L	0.3100		UNV	1.8000	.7	J	1.0000		U	1.0000	.5	J	1.5000	.9	-
THORIUM, TOTAL	UG/L	2.8000		UNV	16.4166	.7	NV	7.0000	3	J	9.0000	4	J	14.0000	8	-
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UJ	3.0000		U	3.0000		U	3.0000		UJ
THORIUM-228	PCI/L	1.2800		NV	3.7000	1.1	J	1.0000		U	1.2000	.5	J	1.9000	1	-
NEPTUNIUM-237	PCI/L	0.5000		UNV	1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		U
PLUTONIUM-239/240	PCI/L	0.5000		UNV	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U
PLUTONIUM-238	PCI/L	0.5000		UNV	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U
STRONTIUM-90	PCI/L				5.0000		U	5.0000		R	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L	225.0000		NV	30.0000		UJ	30.0000		UJ	30.0000		UJ	30.0000		UJ
RUTHENIUM-106	PCI/L	150.0000		UNV	150.0000		R	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L	7.0000		UNV	20.0000		R	20.0000		R	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	39.6000		NV												
GROSS BETA	PCI/L	66.9000		NV												
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												

000964

5204

SAMPLE NUMBER:		EMGW_SYSGEN_153			003221			003407			003708			003912		
LAB:		NET														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHENE	UG/L	1.0000		UNV												
1,2-DICHLOROETHANE	UG/L	1.0000		UNV												
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV												
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV												
2-BUTANONE	UG/L	2.0000		UNV												
2-HEXANONE	UG/L	2.0000		UNV												
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV												
ACETONE	UG/L	2.0000		UNV												
BENZENE	UG/L	1.0000		UNV												
BROMODICHLOROMETHANE	UG/L	1.0000		UNV												
BROMOFORM	UG/L	1.0000		UNV												
BROMOMETHANE	UG/L	1.0000		UNV												
CARBON DISULFIDE	UG/L	1.0000		UNV												
CARBON TETRACHLORIDE	UG/L	1.0000		UNV												
CHLOROBENZENE	UG/L	1.0000		UNV												
CHLOROETHANE	UG/L	1.0000		UNV												
CHLOROFORM	UG/L	1.0000		UNV												
CHLOROMETHANE	UG/L	1.0000		UNV												
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV												
ETHYLBENZENE	UG/L	1.0000		UNV												
METHYLENE CHLORIDE	UG/L	1.0000		UNV												
STYRENE	UG/L	1.0000		UNV												
TETRACHLOROETHENE	UG/L	1.0000		UNV												
TOLUENE	UG/L	1.0000		UNV												
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
TRICHLOROETHENE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	2.0000		UNV												
VINYL CHLORIDE	UG/L	1.0000		UNV												
XYLENES, TOTAL	UG/L	1.0000		UNV												

000965

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_154			EMGW_SYSGEN_155			EMGW_SYSGEN_156			GW930515-7			003174	
TASK:		GWMON			GWMON			GWMON			50.03.23			3.2.4	
LAB:		IT			NET			NET			NET			IT	
WELL OR BORING NUMBER:		1055			1055			1055			1055			1058	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		26-MAR-90			11-OCT-90			16-OCT-90			15-MAY-93			10-MAY-88	
NORTH COORDINATE:		481476.15			481476.15			481476.15			481476.15			487510.79	
EAST COORDINATE:		1380703.31			1380703.31			1380703.31			1380703.31			1377375.53	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										330.0000		-			
AMMONIA	MG/L							0.0200		UNV	0.4800		-	2.0000		J
BICARBONATE ALKALINITY	MG/L										415.0000		-			
CARBONATE ALKALINITY	MG/L										3.0000		U			
CHLORIDE	MG/L							9.0000		NV	3.0000		-	14.0000		J
FLUORIDE	MG/L							0.5700		NV	0.2700		-	0.7600		-
NITRATE	MG/L													0.1000		U
NITRATE/NITRITE	MG/L							0.7900		NV	2.3600		-			
PH	STD										7.3000		-			
PHENOLS	MG/L										0.0100		U	0.0100		J
PHOSPHORUS	MG/L							0.0700		NV	0.1900		-	0.0520		-
SPECIFIC CONDUCTIVITY	UMHOS/CM										1230.0000		-			
SULFATE	MG/L							374.0000		NV	528.0000		J	5.0000		-
TOTAL DISSOLVED SOLIDS	MG/L										1020.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										0.5100		-			
TOTAL ORGANIC CARBON	MG/L										2.0000		-			
TOTAL ORGANIC HALOGENS	MG/L										0.0100		U			
TOTAL ORGANIC NITROGEN	MG/L										0.1000		U	0.2000		J
TOTAL SOLIDS	MG/L										1770.0000		-			
INORGANICS																
ALUMINUM	MG/L				13.1000		NV				5.6200		-			
ANTIMONY	MG/L				0.0250		UNV				0.0450		UJ			
ARSENIC	MG/L				0.0100		NV				0.0020		UJ	0.2000		U
BARIUM	MG/L				0.2740		NV				0.0280		-	0.2730		-
BERYLLIUM	MG/L				0.0100		UNV				0.0010		U			
CADMIUM	MG/L				0.0010		UNV				0.0030		U	0.0050		U
CALCIUM	MG/L				194.0000		NV				177.0000		-	64.6000		-
CHROMIUM	MG/L				0.0050		UNV				0.0050		U	0.0200		U

000966

0404

SAMPLE NUMBER:		EMGW_SYSGEN_154			EMGW_SYSGEN_155			EMGW_SYSGEN_156			GW930515-7			003174		
LAB:					NET						NET			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COBALT	MG/L				0.0250		UNV				0.0080		U			
COPPER	MG/L				0.0250		UNV				0.0084		U	0.0100		U
CYANIDE	MG/L							0.0050		UNV	0.0100		U			
IRON	MG/L				46.6000		NV				0.0165		U	2.5700		-
LEAD	MG/L				0.0160		NV				0.0010		UJ	0.0500		U
MAGNESIUM	MG/L				88.0000		NV				58.7000		-	19.8000		-
MANGANESE	MG/L				1.2500		NV				0.2140		-	0.0150		-
MERCURY	MG/L				0.0002		UNV				0.0002		U	0.0002		U
MOLYBDENUM	MG/L				0.0250		UNV							0.0200		U
NICKEL	MG/L				0.0560		NV				0.0200		U	0.0200		U
POTASSIUM	MG/L				2.0600		NV				1.2000		U	0.7800		-
SELENIUM	MG/L				0.0025		UNV				0.0027		UJ	0.2000		U
SILVER	MG/L				0.0010		UNV				0.0070		U	0.0200		U
SODIUM	MG/L				18.4000		NV				11.8000		-	13.6000		-
THALLIUM	MG/L				0.0100		UNV				0.0020		U			
VANADIUM	MG/L				0.0500		UNV				0.0030		U			
ZINC	MG/L				0.0200		UNV				0.0050		U			
MISC																
3-METHYLPHENOL	UG/L				4.0000		UNV									
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV									
PESTICIDES																
4,4'-DDD	UG/L				0.2000		UNV									
4,4'-DDE	UG/L				0.2000		UNV									
4,4'-DDT	UG/L				0.2000		UNV									
ALDRIN	UG/L				0.2000		UNV									
ALPHA-BHC	UG/L				0.2000		UNV									
AROCLOR-1016	UG/L				0.2000		UNV									
AROCLOR-1221	UG/L				0.2000		UNV									
AROCLOR-1232	UG/L				0.2000		UNV									
AROCLOR-1242	UG/L				0.2000		UNV									
AROCLOR-1248	UG/L				0.2000		UNV									
AROCLOR-1254	UG/L				0.2000		UNV									
AROCLOR-1260	UG/L				0.2000		UNV									
BETA-BHC	UG/L				0.2000		UNV									
CHLORDANE	UG/L				0.2000		UNV									
DELTA-BHC	UG/L				0.2000		UNV									
DIELDRIN	UG/L				0.2000		UNV									
ENDOSULFAN II	UG/L				0.2000		UNV									
ENDOSULFAN SULFATE	UG/L				0.2000		UNV									
ENDOSULFAN-I	UG/L				0.2000		UNV									
ENDRIN	UG/L				0.2000		UNV									

000967

SAMPLE NUMBER:	EMGW_SYSGEN_154			EMGW_SYSGEN_155			EMGW_SYSGEN_156			GW930515-7			003174		
LAB:				NET											
SUFFIX/FILTERFLAG:	-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDRIN ALDEHYDE	UG/L				0.2000		UNV									
GAMMA-BHC (LINDANE)	UG/L				0.2000		UNV									
HEPTACHLOR	UG/L				0.2000		UNV									
HEPTACHLOR EPOXIDE	UG/L				0.2000		UNV									
TOXAPHENE	UG/L				0.5000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	4.6000		NV							3.1000	.7	-	1.0000		U
URANIUM, TOTAL	UG/L	13.8000		NV							13.0000		NV	1.0000		U
URANIUM-234	PCI/L	4.7000		NV							5.7000	.7	J	1.0000		U
THORIUM-230	PCI/L										0.3000	.1	J	1.0000		U
RADIUM-226	PCI/L										1.0000	.2	UJ	1.0000		U
URANIUM-235/236	PCI/L	0.3170		NV							0.2000	.5	UJ	1.0000		U
THORIUM-232	PCI/L										0.4000	.2	J	1.0000		U
THORIUM, TOTAL	UG/L										6.3840	.1	NV			
RADIUM-228	PCI/L										3.0000	1	U	3.0000		R
THORIUM-228	PCI/L										1.3000	.4	J	1.0000		U
NEPTUNIUM-237	PCI/L													1.0000		U
PLUTONIUM-239/240	PCI/L													1.0000		U
PLUTONIUM-238	PCI/L													1.0000		U
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L										37.3000	9	J	30.0000		U
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
GROSS ALPHA	PCI/L										17.5000	5.1	NV			
GROSS BETA	PCI/L										8.5000	5.2	UNV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				4.0000		UNV									
1,3-DICHLOROBENZENE	UG/L				4.0000		UNV									
1,4-DICHLOROBENZENE	UG/L				4.0000		UNV									
2,4,5-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4,6-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DIMETHYLPHENOL	UG/L				4.0000		UNV									
2,4-DINITROPHENOL	UG/L				4.0000		UNV									
2,4-DINITROTOLUENE	UG/L				15.0000		UNV									
2,6-DINITROTOLUENE	UG/L				15.0000		UNV									
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV									
2-CHLORONAPHTHALENE	UG/L				4.0000		UNV									
2-CHLOROPHENOL	UG/L				4.0000		UNV									
2-METHYLNAPHTHALENE	UG/L				4.0000		UNV									
2-METHYLPHENOL	UG/L				4.0000		UNV									

SAMPLE NUMBER:		EMGW_SYSGEN_154			EMGW_SYSGEN_155			EMGW_SYSGEN_156			GW930515-7			003174		
LAB:					NET											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-NITROANILINE	UG/L				15.0000		UNV									
2-NITROPHENOL	UG/L				4.0000		UNV									
3,3'-DICHLOROBENZIDINE	UG/L				15.0000		UNV									
3-NITROANILINE	UG/L				15.0000		UNV									
4,6-DINITRO-2-METHYLPHENOL	UG/L				4.0000		UNV									
4-BROMOPHENYL PHENYL ETHER	UG/L				15.0000		UNV									
4-CHLORO-3-METHYLPHENOL	UG/L				4.0000		UNV									
4-CHLOROPHENYLPHENYL ETHER	UG/L				15.0000		UNV									
4-NITROANILINE	UG/L				15.0000		UNV									
4-NITROPHENOL	UG/L				4.0000		UNV									
ACENAPHTHENE	UG/L				4.0000		UNV									
ACENAPHTHYLENE	UG/L				4.0000		UNV									
ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)PYRENE	UG/L				4.0000		UNV									
BENZO(B)FLUORANTHENE	UG/L				4.0000		UNV									
BENZO(G,H,I)PERYLENE	UG/L				4.0000		UNV									
BENZO(K)FLUORANTHENE	UG/L				4.0000		UNV									
BENZOIC ACID	UG/L				4.0000		UNV									
BENZYL ALCOHOL	UG/L				40.0000		UNV									
BIS(2-CHLOROETHOXY)METHANE	UG/L				15.0000		UNV									
BIS(2-CHLOROETHYL)ETHER	UG/L				15.0000		UNV									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				15.0000		UNV									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				4.0000		UNV									
BUTYL BENZYL PHTHALATE	UG/L				4.0000		UNV									
CHRYSENE	UG/L				4.0000		UNV									
DI-N-BUTYL PHTHALATE	UG/L				4.0000		UNV									
DI-N-OCTYL PHTHALATE	UG/L				4.0000		UNV									
DIBENZO(A,H)ANTHRACENE	UG/L				4.0000		UNV									
DIBENZOFURAN	UG/L				4.0000		UNV									
DIETHYL PHTHALATE	UG/L				4.0000		UNV									
DIMETHYL PHTHALATE	UG/L				4.0000		UNV									
FLUORANTHENE	UG/L				4.0000		UNV									
FLUORENE	UG/L				4.0000		UNV									
HEXACHLOROBENZENE	UG/L				4.0000		UNV									
HEXACHLOROBUTADIENE	UG/L				4.0000		UNV									
HEXACHLOROCYCLOPENTADIENE	UG/L				4.0000		UNV									
HEXACHLOROETHANE	UG/L				4.0000		UNV									
INDENO(1,2,3-CD)PYRENE	UG/L				4.0000		UNV									
ISOPHORONE	UG/L				4.0000		UNV									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				4.0000		UNV									
N-NITROSODIPHENYLAMINE	UG/L				4.0000		UNV									
NAPHTHALENE	UG/L				4.0000		UNV									
NITROBENZENE	UG/L				4.0000		UNV									
P-CHLOROANILINE	UG/L				4.0000		UNV									

SAMPLE NUMBER:	EMGW_SYSGEN_154	EMGW_SYSGEN_155	EMGW_SYSGEN_156	GW930515-7	003174
LAB:		NET			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PENTACHLOROPHENOL	UG/L				4.0000		UNV									
PHENANTHRENE	UG/L				4.0000		UNV									
PHENOL	MG/L				4.0000		UNV									
PYRENE	UG/L				4.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV				10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV				10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV				10.0000		U			
1,1-DICHLOROETHANE	UG/L				1.0000		UNV				10.0000		U			
1,1-DICHLOROETHENE	UG/L				1.0000		UNV				10.0000		U			
1,2-DICHLOROETHANE	UG/L				1.0000		UNV				10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV				10.0000		U			
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV				10.0000		U			
2-BUTANONE	UG/L				2.0000		UNV				10.0000		U			
2-HEXANONE	UG/L				2.0000		UNV				10.0000		U			
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV				10.0000		U			
ACETONE	UG/L				2.0000		UNV				10.0000		U			
BENZENE	UG/L				1.0000		UNV				10.0000		U			
BROMODICHLOROMETHANE	UG/L				1.0000		UNV				10.0000		U			
BROMOFORM	UG/L				1.0000		UNV				10.0000		U			
BROMOMETHANE	UG/L				1.0000		UNV				10.0000		U			
CARBON DISULFIDE	UG/L				1.0000		UNV				10.0000		U			
CARBON TETRACHLORIDE	UG/L				1.0000		UNV				10.0000		U			
CHLOROBENZENE	UG/L				1.0000		UNV				10.0000		U			
CHLOROETHANE	UG/L				1.0000		UNV				10.0000		U			
CHLOROFORM	UG/L				1.0000		UNV				10.0000		U			
CHLOROMETHANE	UG/L				1.0000		UNV				10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				10.0000		U			
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV				10.0000		U			
ETHYLBENZENE	UG/L				1.0000		UNV				10.0000		U			
METHYLENE CHLORIDE	UG/L				1.0000		UNV				10.0000		U			
STYRENE	UG/L				1.0000		UNV				10.0000		U			
TETRACHLOROETHENE	UG/L				1.0000		UNV				10.0000		U			
TOLUENE	UG/L				1.0000		UNV				10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				10.0000		U			
TRICHLOROETHENE	UG/L				1.0000		UNV				10.0000		U			
VINYL ACETATE	UG/L				2.0000		UNV									
VINYL CHLORIDE	UG/L				1.0000		UNV				10.0000		U			
XYLENES, TOTAL	UG/L				1.0000		UNV				10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003563			003752			003982			003188			003189				
TASK:		3.2.4			3.2.4			3.2.4			3.2.4			3.2.4				
LAB:		IT			IT			IT			IT			IT				
WELL OR BORING NUMBER:		1058			1058			1058			1059			1059				
DEPTH:		-			-			-			-			-				
DATE COLLECTED:		18-AUG-88			06-DEC-88			15-MAR-89			12-MAY-88			12-MAY-88				
NORTH COORDINATE:		487510.79			487510.79			487510.79			487827.16			487827.16				
EAST COORDINATE:		1377375.53			1377375.53			1377375.53			1376077.06			1376077.06				
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			DUPLICATE				
QC OF:														003188				
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF				
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)		
GENERAL CHEMISTRY																		
AMMONIA	MG/L	1.7000		J	2.1100		J	0.1000		-	0.1000		UJ	0.1000		UJ		
CHLORIDE	MG/L	21.0000		J	2.5000		U	20.0000		-	5.6000		J	7.1000		J		
FLUORIDE	MG/L	0.6700		J	0.6100		-	0.5000		-	0.4200		-	0.4200		-		
NITRATE	MG/L	0.1000		R	0.1000		R	0.0200		R	0.2000		J	0.2000		J		
PHENOLS	MG/L	0.1000		UJ	0.0170		-	0.0060		-	0.0100		J	0.0200		J		
PHOSPHORUS	MG/L	0.1100		J	0.1390		U	0.1000		-	0.0520		-	0.0500		-		
SULFATE	MG/L	2.0000		-	4.1300		-	2.0000		U	86.0000		-	58.0000		-		
TOTAL KJELDAHL NITROGEN	MG/L				2.3300		J	1.6000		-								
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		UJ	0.0500		U								
TOTAL ORGANIC NITROGEN	MG/L	0.2000		J	0.2200		UJ	1.5000		-	0.1000		UJ	0.1000		UJ		
INORGANICS																		
ARSENIC	MG/L	0.2000		U	0.0140		UJ	0.0160		-	0.2000		U	0.2000		U		
BARIUM	MG/L	0.4000		-	0.3800		-	0.3700		-	0.0500		-	0.0500		-		
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0050		U	0.0050		U	0.0050		U		
CALCIUM	MG/L	77.1000		-	77.9000		-	85.0000		-	80.9000		-	79.4000		-		
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0200		-	0.0200		U	0.0200		U		
COPPER	MG/L	0.0100		U	0.0100		U	0.0100		U	0.0100		U	0.0100		U		
IRON	MG/L	3.0100		-	3.2900		-	2.9000		J	0.0500		U	0.0500		U		
LEAD	MG/L	0.0500		U	0.0020		UJ	0.0020		U	0.0500		U	0.0500		U		
MAGNESIUM	MG/L	23.3000		-	23.7000		-	23.0000		-	22.5000		-	21.9000		-		
MANGANESE	MG/L	0.0200		-	0.0180		U	0.0200		-	0.0200		U	0.0200		U		
MERCURY	MG/L	0.0002		U	0.0003		J	0.0002		UJ	0.0002		U	0.0002		U		
MOLYBDENUM	MG/L	0.0200		U	0.0280		U	0.0100		-	0.0200		U	0.0200		U		
NICKEL	MG/L	0.0200		U	0.0200		U	0.0300		U	0.0200		U	0.0200		U		
POTASSIUM	MG/L	1.6000		-	0.9170		-	0.9600		-	10.2000		-	9.9300		-		
SELENIUM	MG/L	0.2000		U	0.0020		UJ	0.0050		U	0.2000		U	0.2000		U		
SILVER	MG/L	0.0100		U	0.0200		U	0.0100		U	0.0200		U	0.0200		U		
SODIUM	MG/L	17.3000		-	16.9000		-	17.0000		-	37.4000		-	37.5000		-		

000971

SAMPLE NUMBER:		003563			003752			003982			003188			003189		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
URANIUM, TOTAL	UG/L	0.1000		U	0.1000		U	0.1000		U	1.0000		U	1.0000		U
URANIUM-234	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
THORIUM-230	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
RADIUM-226	PCI/L	0.3900	.24	R	1.0000		U	1.0000		U	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L	2.0000		U	5.0000		U	6.0000		UJ						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		UJ	3.0000		UJ	3.0000		UJ
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	0.0400	.14	R	1.0000		U	1.0000		U	1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	35.1000		UJ	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R	20.0000		R	20.0000		R

000972

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003562			003751			003981			30929-1059-02			30929F1059-02		
TASK:		3.2.4			3.2.4			3.2.4			50.03.23			50.03.23		
LAB:		IT			IT			IT			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:		1059			1059			1059			1059			1059		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		18-AUG-88			06-DEC-88			14-MAR-89			29-SEP-93			29-SEP-93		
NORTH COORDINATE:		487827.16			487827.16			487827.16			487827.16			487827.16		
EAST COORDINATE:		1376077.06			1376077.06			1376077.06			1376077.06			1376077.06		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										350.0000		-			
AMMONIA	MG/L	0.1000		UJ	0.1000		UJ	0.1000		UJ	0.0500		U			
CHLORIDE	MG/L	8.5000		J	2.0000		U	8.6000		UJ	9.2000		-			
FLUORIDE	MG/L	0.4800		J	0.4000		-	0.2000		J	0.3000		-			
NITRATE	MG/L	0.2600		R	0.1510		R	0.2200		J						
NITRATE/NITRITE	MG/L										0.0500		U			
PHENOLS	MG/L	0.1000		UJ	0.0200		-	0.0050		UJ	0.0020		U			
PHOSPHORUS	MG/L	0.0500		UJ	0.0450		U	0.0400		J	0.1200		J			
SULFATE	MG/L	4.0000		-	3.2400		-	53.0000		J	52.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL KJELDAHL NITROGEN	MG/L				0.2300		UJ	0.4000		UJ	0.1000		U			
TOTAL ORGANIC CARBON	MG/L										1.0000		U			
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0500		UJ	0.0100		U			
TOTAL ORGANIC NITROGEN	MG/L	0.1000		J	0.2300		UJ	0.3000		J						
INORGANICS																
ALUMINUM	MG/L													0.0193		U
ANTIMONY	MG/L													0.0272		-
ARSENIC	MG/L	0.2000		U	0.0020		UJ	0.0030		UJ				0.0010		U
BARIUM	MG/L	0.0500		-	0.0550		U	0.0460		J				0.0532		-
BERYLLIUM	MG/L													0.0003		U
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0050		UJ				0.0012		UJ
CALCIUM	MG/L	77.7000		-	74.4000		-	91.0000		J				82.6000		-
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0200		J				0.0032		U
COBALT	MG/L													0.0053		U
COPPER	MG/L	0.0300		-	0.0440		U	0.1900		J				0.0026		U
CYANIDE	MG/L													0.0100		U
IRON	MG/L	0.0820		-	0.0270		U	0.0300		UJ				0.0467		-
LEAD	MG/L	0.0500		U	0.0040		UJ	0.0060		J				0.0087		J

000973

SAMPLE NUMBER:	003562			003751			003981			30929-1059-02			30929F1059-02		
LAB:	IT			IT			IT						DATACHEM		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	22.6000		-	20.4000		-	22.0000		J				22.8000		-
MANGANESE	MG/L	0.0400		-	0.0030		U	0.0070		J				0.0025		-
MERCURY	MG/L	0.0002		U	0.0002		U	0.0002		UJ				0.0002		U
MOLYBDENUM	MG/L	0.0200		U	0.0200		U	0.0100		UJ				0.0147		U
NICKEL	MG/L	0.0200		U	0.0200		U	0.0300		UJ				0.0150		U
POTASSIUM	MG/L	8.2000		-	8.8100		-	11.0000		J				9.2900		-
SELENIUM	MG/L	0.2000		U	0.0020		UJ	0.0050		UJ				0.0014		U
SILICON	MG/L													5.6200		-
SILVER	MG/L	0.0100		U	0.0200		U	0.0100		UJ				0.0032		U
SODIUM	MG/L	53.6000		-	56.3000		-	18.0000		J				50.4000		-
THALLIUM	MG/L													0.0010		U
VANADIUM	MG/L													0.0029		U
ZINC	MG/L													0.0443		-
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U						
URANIUM, TOTAL	UG/L	0.8000	.2	J	0.9000	.1	-	1.0000		U						
URANIUM-234	PCI/L	1.0000		U	1.0000		U	1.0000		U						
THORIUM-230	PCI/L	1.0000		U	1.0000		U	1.0000		U						
RADIUM-226	PCI/L	0.0240	.22	R	1.0000		U	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U						
THORIUM-232	PCI/L	1.0000		U	1.0000		U	1.0000		U						
THORIUM, TOTAL	UG/L	3.0000	2	J	2.0000		U	7.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		U						
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.0000		U						
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	1.0000		U						
PLUTONIUM-239/240	PCI/L	0.0220	.013	R	1.0000		U	1.0000		U						
PLUTONIUM-238	PCI/L	0.0044	.012	R	1.0000		U	1.0000		U						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U						
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			

000974

8704

SAMPLE NUMBER:		003562			003751			003981			30929-1059-02			30929F1059-02		
LAB:											DATACHEM					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-HEXANONE	UG/L										10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		UJ			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30929F1059-03	30929F1059-05	30929U1059-02	30929U1059-03	30929U1059-05
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	CORE	FERMCO	DATACHEM	CORE	FERMCO
WELL OR BORING NUMBER:	1059	1059	1059	1059	1059
DEPTH:	-	-	-	-	-
DATE COLLECTED:	29-SEP-93	29-SEP-93	29-SEP-93	29-SEP-93	29-SEP-93
NORTH COORDINATE:	487827.16	487827.16	487827.16	487827.16	487827.16
EAST COORDINATE:	1376077.06	1376077.06	1376077.06	1376077.06	1376077.06
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L							0.0193		U						
ANTIMONY	MG/L							0.0222		U						
ARSENIC	MG/L							0.0010		U						
BARIUM	MG/L							0.0535		-						
BERYLLIUM	MG/L							0.0003		U						
CADMIUM	MG/L							0.0012		UJ						
CALCIUM	MG/L							83.3000		-						
CHROMIUM	MG/L							0.0032		U						
COBALT	MG/L							0.0053		U						
COPPER	MG/L							0.0053		-						
CYANIDE	MG/L							0.0100		U						
IRON	MG/L							0.2490		-						
LEAD	MG/L							0.0013		J						
MAGNESIUM	MG/L							23.1000		-						
MANGANESE	MG/L							0.0035		-						
MERCURY	MG/L							0.0002		U						
MOLYBDENUM	MG/L							0.0147		U						
NICKEL	MG/L							0.0150		U						
POTASSIUM	MG/L							8.9300		-						
SELENIUM	MG/L							0.0010		U						
SILICON	MG/L							5.6000		-						
SILVER	MG/L							0.0032		U						
SODIUM	MG/L							50.0000		-						
THALLIUM	MG/L							0.0010		U						
VANADIUM	MG/L							0.0029		U						
ZINC	MG/L							0.0502		-						
RADIONUCLIDES																
URANIUM-238	PCI/L	0.4000	1.6	R							0.4000	1.6	R			

000976

5204

SAMPLE NUMBER:	30929F1059-03			30929F1059-05			30929U1059-02			30929U1059-03			30929U1059-05		
LAB:	CORE									CORE					
SUFFIX/FILTERFLAG:	NONE-FIL			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM, TOTAL UG/L	1.0000	.1	-	0.9000		UNV				1.0000	.1	-	1.0000		UNV
URANIUM-234 PCI/L	0.6000	.3	J							0.6000	.3	J			
THORIUM-230 PCI/L	0.2000	.2	UJ							0.2000	.2	UJ			
RADIUM-226 PCI/L	1.0000	.3	UJ							1.0000	.3	UJ			
URANIUM-235/236 PCI/L	0.2000	.5	UJ							0.2000	.5	UJ			
THORIUM-232 PCI/L	0.2000	.3	UJ							0.2000	.3	UJ			
RADIUM-228 PCI/L	3.0000	1	U							3.0000	.9	U			
THORIUM-228 PCI/L	0.2000	.6	UJ							0.2000	.5	UJ			
TECHNETIUM-99 PCI/L	15.0000	7.4	U							15.0000	7.2	U			

000977

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003001			003045			003255			003398			003695	
TASK:		9.8			9.8			3.2.4			3.2.4			3.2.4	
LAB:		WMCO			HOWARD			IT			IT			IT	
WELL OR BORING NUMBER:		1060			1060			1060			1060			1060	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		30-NOV-87			05-DEC-87			02-JUN-88			04-AUG-88			25-OCT-88	
NORTH COORDINATE:		475865.6			475865.6			475865.6			475865.6			475865.6	
EAST COORDINATE:		1380010.66			1380010.66			1380010.66			1380010.66			1380010.66	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
AMMONIA	MG/L							0.1700		-	0.1000		J	0.1000		U
CHEMICAL OXYGEN DEMAND	MG/L	10.0000		UNV	10.0000		UNV								
CHLORIDE	MG/L	27.0000		NV	20.0000		NV	35.7000		-	26.0000		-	25.0000		-
FLUORIDE	MG/L	0.1800		NV	0.6100		NV	0.4900		-	0.2900		-	0.3200		-
HEXAVALENT CHROMIUM	MG/L	0.0050		UNV	0.0050		UNV									
NITRATE	MG/L	0.0200		UNV	1.1400		NV	0.3000		J	0.1000		-	0.2350		J
PH	STD	7.4400		NV	7.6600		NV									
PHENOLS	MG/L	0.0050		UNV	0.0100		NV	0.0200		-	0.0200		J	0.0100		U
PHOSPHORUS	MG/L	0.0200		UNV	0.0900		NV	0.0600		-	0.0500		U	0.0200		U
SPECIFIC CONDUCTIVITY	UMHOS/CM	620.0000		NV	837.0000		NV									
SULFATE	MG/L	88.0000		NV	84.0000		NV	175.0000		-	120.0000		-	53.0000		J
TOTAL COLIFORM	UG/L				325.0000		NV									
TOTAL DISSOLVED SOLIDS	MG/L	490.0000		NV	484.0000		NV									
TOTAL KJELDAHL NITROGEN	MG/L													0.3190		-
TOTAL ORGANIC CARBON	MG/L	1.0000		UNV	3.2500		NV									
TOTAL ORGANIC HALIDES	MG/L	0.0100		UNV	0.0100		UNV							0.0500		U
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U	0.1000		U	0.3190		-
HERBICIDES																
2,4,5-TP (SILVEX)	UG/L	500.0000		UNV	500.0000		UNV									
2,4-D	UG/L	1000.0000		UNV	1000.0000		UNV									
INORGANICS																
ARSENIC	MG/L	0.0030		NV	0.0025		UNV	0.2000		UJ	0.0100		U	0.0020		U
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.0620		-	0.2000		U	0.0590		-
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0020		U	0.0050		U	0.0020		U
CALCIUM	MG/L	113.0000		NV	99.2000		NV	130.0000		-	120.0000		-	114.0000		
CHROMIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0200		U	0.0100		U	0.0200		

000978

5704

SAMPLE NUMBER:		003001		003045		003255			003398			003695		
LAB:		WMCO		HOWARD		IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS														
COPPER	MG/L	0.0250	UNV	0.0250	UNV	0.0100		U	0.0300		U	0.0100		U
CYANIDE	MG/L	0.0060	NV	0.0050	UNV									
IRON	MG/L	2.7300	NV	0.0500	UNV	0.2560		-	0.1000		U	0.0690		-
LEAD	MG/L	0.0050	UNV	0.0050	UNV	0.0500		U	0.0050		U	0.0020		-
MAGNESIUM	MG/L	25.1000	NV	30.2000	NV	47.8000		-	34.0000		-	33.8000		-
MANGANESE	MG/L	0.3430	NV	0.0150	UNV	0.0870		-	0.1000		-	0.0190		-
MERCURY	MG/L	0.0003	UNV	0.0002	UNV	0.0002		U	0.0003		U	0.0002		U
MOLYBDENUM	MG/L					0.0200		U	0.0500		U	0.0200		U
NICKEL	MG/L	0.0050	UNV	0.0050	UNV	0.0200		U	0.0400		U	0.0200		U
POTASSIUM	MG/L	1.6400	NV	18.2000	NV	31.5000		-	15.0000		-	20.0000		J
SELENIUM	MG/L	0.0025	UNV	0.0025	UNV	0.2000		U	0.0050		U	0.0020		U
SILVER	MG/L	0.0300	UNV	0.0300	UNV	0.0520		-	0.0100		U	0.0100		UJ
SODIUM	MG/L	7.1900	NV	20.9000	NV	26.5000		-	12.0000		-	14.7000		-
ZINC	MG/L	0.0920	NV	0.0200	UNV									
MISC														
ALACHLOR	UG/L	2000.0000	UNV	2000.0000	UNV									
ATRAZINE	UG/L	1000.0000	UNV	1000.0000	UNV									
CARBOFURAN	UG/L	1000000.00	UNV	1000000.00	UNV									
CYANAZINE	UG/L	1000.0000	UNV	1000.0000	UNV									
FONOFOS	UG/L	1000.0000	UNV	1000.0000	UNV									
LINURON	UG/L	1000.0000	UNV	1000.0000	UNV									
METOLACHLOR	UG/L	1000.0000	UNV	1000.0000	UNV									
METRIBUZIN	UG/L	1000.0000	UNV	1000.0000	UNV									
SIMIZINE	UG/L	1000.0000	UNV	1000.0000	UNV									
TERBUFOS	UG/L	1000.0000	UNV	1000.0000	UNV									
ORGANOPHOSPHORUS														
PHOSPHORODITHIOIC ACID,	UG/L	1000.0000	UNV											
PESTICIDES														
ENDRIN	UG/L	200.0000	UNV	200.0000	UNV									
GAMMA-BHC (LINDANE)	UG/L	200.0000	UNV	200.0000	UNV									
METHOXYCHLOR	UG/L	200.0000	UNV	200.0000	UNV									
TOXAPHENE	UG/L	500.0000	UNV	500.0000	UNV									
RADIONUCLIDES														
URANIUM-238	PCI/L					1.0000		U	1.0000		U	1.0000		U
URANIUM, TOTAL	UG/L			11000.0000	NV	2.0000	1	-	1.0000		U	1.0000		U
URANIUM-234	PCI/L					1.9000	.3	J	1.0000		U	1.0000		U
THORIUM-230	PCI/L					1.0000		U	1.0000		U	1.0000		U

000979

SAMPLE NUMBER:	003001			003045			003255			003398			003695		
LAB:							IT			IT			IT		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L							1.0000		U	1.0000		R	1.0000		U
URANIUM-235/236	PCI/L							1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L							1.0000		U	1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L				18000.0000		NV				7.0000		U	2.0000		U
RADIUM-228	PCI/L							3.0000		U	3.0000		U	3.0000		U
THORIUM-228	PCI/L							1.0000		U	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L							1.0000		U	1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L							1.0000		U	1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L							1.0000		U	1.0000		U	1.0000		U
STRONTIUM-90	PCI/L							5.0000		U	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L							30.0000		U	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L							150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L							20.0000		R	20.0000		R	20.0000		R
GROSS ALPHA	PCI/L	1.0000		UNV	1.0000		UNV									
GROSS BETA	PCI/L	4.0000		NV	24.0000		UNV									
RADIUM, TOTAL	UG/L	1.0000		NV	1.0000		NV									

000980

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003888			066832			30929-1060-02			30929F1060-02			30929F1060-03		
TASK:		3.2.4			9.27			50.03.23			50.03.23			50.03.23		
LAB:		IT			IT			DATACHEM			DATACHEM			CORE		
WELL OR BORING NUMBER:		1060			1060			1060			1060			1060		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		01-FEB-89			18-DEC-89			29-SEP-93			29-SEP-93			29-SEP-93		
NORTH COORDINATE:		475865.6			475865.6			475865.6			475865.6			475865.6		
EAST COORDINATE:		1380010.66			1380010.66			1380010.66			1380010.66			1380010.66		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							430.0000		-						
AMMONIA	MG/L	0.1000		UJ				0.1300		-						
CHLORIDE	MG/L	25.0000		J				39.0000		-						
FLUORIDE	MG/L	0.2200		J				0.3000		-						
NITRATE	MG/L	0.1900		J												
NITRATE/NITRITE	MG/L							0.0700		-						
PHENOLS	MG/L	0.0100		J				0.0020		U						
PHOSPHORUS	MG/L	0.0600		J				3.2000		J						
SULFATE	MG/L	102.0000		J				85.0000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL KJELDAHL NITROGEN	MG/L	0.1780		J				2.2000		-						
TOTAL ORGANIC CARBON	MG/L							3.0000		-						
TOTAL ORGANIC HALIDES	MG/L	0.0110		-				0.0100		U						
TOTAL ORGANIC NITROGEN	MG/L	0.1780		J												
INORGANICS																
ALUMINUM	MG/L										0.0375		-			
ANTIMONY	MG/L										0.0222		U			
ARSENIC	MG/L	0.0020		UJ							0.0010		U			
BARIUM	MG/L	0.0580		J							0.0677		-			
BERYLLIUM	MG/L										0.0003		U			
CADMIUM	MG/L	0.0200		UJ							0.0012		UJ			
CALCIUM	MG/L	124.0000		J							155.0000		-			
CHROMIUM	MG/L	0.0340		J							0.0032		U			
COBALT	MG/L										0.0053		U			
COPPER	MG/L	0.0170		J							0.0026		U			
CYANIDE	MG/L										0.0100		U			
IRON	MG/L	0.1720		J							0.0789		-			
LEAD	MG/L	0.0020		UJ							0.0014		-			

C00981

SAMPLE NUMBER:		003888		066832		30929-1060-02			30929F1060-02			30929F1060-03		
LAB:		IT							DATACHEM					
SUFFIX/FILTERFLAG:		NONE-FIL		-		-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	34.8000		J							46.3000		-			
MANGANESE	MG/L	0.0210		J							0.1000		-			
MERCURY	MG/L	0.0037		J							0.0002		U			
MOLYBDENUM	MG/L	0.0200		UJ							0.0147		U			
NICKEL	MG/L	0.0220		J							0.0150		U			
POTASSIUM	MG/L	5.0400		J							17.2000		-			
SELENIUM	MG/L	0.0020		UJ							0.0017		UJ			
SILICON	MG/L										7.4300		-			
SILVER	MG/L	0.0005		UJ							0.0032		U			
SODIUM	MG/L	10.3000		J							24.1000		-			
THALLIUM	MG/L										0.0010		U			
VANADIUM	MG/L										0.0029		U			
ZINC	MG/L										0.0402		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U							0.5000	1.6	R
URANIUM, TOTAL	UG/L	1.0000	1	J	1.0000		U							1.4000	.1	-
URANIUM-234	PCI/L	1.0000		U	1.0000		U							0.5000	.2	R
THORIUM-230	PCI/L	1.0000		U	1.0000		U							0.2000	.2	UJ
RADIUM-226	PCI/L	1.0000		U										1.0000	.3	UJ
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U							0.1000	.5	R
THORIUM-232	PCI/L	1.0000		U										0.2000	.3	UJ
THORIUM, TOTAL	UG/L	3.0000		U												
RADIUM-228	PCI/L	3.2000		UJ										3.0000	.9	U
THORIUM-228	PCI/L	1.0000		U	1.0000		U							0.2000	.5	R
NEPTUNIUM-237	PCI/L	1.0000		U												
PLUTONIUM-239/240	PCI/L	1.0000		U												
PLUTONIUM-238	PCI/L	1.0000		U												
STRONTIUM-90	PCI/L	5.0000		U												
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U							15.0000	7.3	U
RUTHENIUM-106	PCI/L	150.0000		R												
CESIUM-137	PCI/L	20.0000		R												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						

000982

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30929F1060-05	30929U1060-02	30929U1060-03	30929U1060-05	EMGW_SYSGEN_158
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	GWMON
LAB:	FERMCO	DATACHEM	CORE	FERMCO	IT
WELL OR BORING NUMBER:	1060	1060	1060	1060	1060
DEPTH:	-	-	-	-	-
DATE COLLECTED:	29-SEP-93	29-SEP-93	29-SEP-93	29-SEP-93	15-MAR-90
NORTH COORDINATE:	475865.6	475865.6	475865.6	475865.6	475865.6
EAST COORDINATE:	1380010.66	1380010.66	1380010.66	1380010.66	1380010.66
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L				2.2900		-									
ANTIMONY	MG/L				0.0222		U									
ARSENIC	MG/L				0.0031		-									
BARIUM	MG/L				0.0950		-									
BERYLLIUM	MG/L				0.0003		U									
CADMIUM	MG/L				0.0012		UJ									
CALCIUM	MG/L				172.0000		-									
CHROMIUM	MG/L				0.0032		U									
COBALT	MG/L				0.0053		U									
COPPER	MG/L				0.0164		-									
CYANIDE	MG/L				0.0100		U									
IRON	MG/L				6.3500		-									
LEAD	MG/L				0.1410		-									
MAGNESIUM	MG/L				50.7000		-									
MANGANESE	MG/L				0.2050		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.0147		U									
NICKEL	MG/L				0.0150		U									
POTASSIUM	MG/L				17.2000		-									
SELENIUM	MG/L				0.0018		UJ									
SILICON	MG/L				10.7000		-									
SILVER	MG/L				0.0032		U									
SODIUM	MG/L				23.8000		-									
THALLIUM	MG/L				0.0010		U									
VANADIUM	MG/L				0.0051		-									
ZINC	MG/L				0.3520		-									
RADIONUCLIDES																
URANIUM-238	PCI/L							2.5000	1.7	J				0.3730		NV

000983

SAMPLE NUMBER:		30929F1060-05			30929U1060-02			30929U1060-03			30929U1060-05			EMGW_SYSGEN_158		
LAB:								CORE						IT		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	1.2000		UNV				7.9000	.6	-	7.5000		UNV	1.1300		NV
URANIUM-234	PCI/L							2.6000	.4	J				0.5990		NV
THORIUM-230	PCI/L							0.2000	.2	UJ						
RADIUM-226	PCI/L							1.8000	.5	J						
URANIUM-235/236	PCI/L							0.2000	.5	R				0.2200		UNV
THORIUM-232	PCI/L							0.2000	.3	UJ						
RADIUM-228	PCI/L							3.0000	.9	U						
THORIUM-228	PCI/L							0.2000	.5	R						
TECHNETIUM-99	PCI/L							15.0000	6.8	U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_159			EMGW_SYSGEN_159D			EMGW_SYSGEN_160			EMGW_SYSGEN_161			EMGW_SYSGEN_161D		
TASK:		GWMON			GWMON			GWMON			GWMON			GWMON		
LAB:		NET			NET			WMCO			NET			NET		
WELL OR BORING NUMBER:		1060			1060			1060			1060			1060		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		04-JUN-90			04-JUN-90			05-JUN-90			27-NOV-90			27-NOV-90		
NORTH COORDINATE:		475865.6			475865.6			475865.6			475865.6			475865.6		
EAST COORDINATE:		1380010.66			1380010.66			1380010.66			1380010.66			1380010.66		
QA TYPE:		NORMAL			DUPLICATE			NORMAL			NORMAL			DUPLICATE		
QC OF:					EMGW_SYSGEN_159									EMGW_SYSGEN_161		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										297.0000		NV	289.0000		NV
AMMONIA	MG/L										0.0200		UNV	0.0400		NV
CHLORIDE	MG/L	35.0000		NV	35.0000		NV				25.0000		NV	23.0000		NV
FLUORIDE	MG/L										0.1600		NV	0.2300		NV
NITRATE, AS NITROGEN	MG/L	0.4800		NV	0.5000		NV									
NITRATE/NITRITE	MG/L										0.0300		NV	0.0300		NV
PH	STD										7.0400		NV	7.1000		NV
PHENOLS	MG/L										0.0060		NV	0.0090		NV
PHOSPHORUS	MG/L										0.1200		NV	0.1400		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM										620.0000		NV	602.0000		NV
SULFATE	MG/L	148.0000		NV	132.0000		NV				79.0000		NV	78.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L										464.0000		NV	496.0000		NV
TOTAL ORGANIC CARBON	MG/L	39.0000		NV	48.0000		NV				3.0000		NV	2.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0170		NV	0.0240		NV				0.0100		UNV	0.0100		UNV
INORGANICS																
CYANIDE	MG/L										0.0050		UNV	0.0050		UNV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	0.6280		NV	1.2600		NV	1.0000		NV	0.3220		NV	0.4060		NV
URANIUM, TOTAL	UG/L	2.0600		NV	3.9800		NV	3.0000		NV	0.8790		NV	0.8240		NV
URANIUM-234	PCI/L	1.3900		NV	1.3400		NV	0.9000		NV	0.5420		NV	0.3720		NV
THORIUM-230	PCI/L	0.2900		UNV	0.4400		NV				0.3100		UNV	0.6520		NV
RADIUM-226	PCI/L	1.0000		UNV	1.9000		NV				1.0000		UNV	1.0000		UNV

000985

SAMPLE NUMBER:		EMGW_SYSGEN_159		EMGW_SYSGEN_159D		EMGW_SYSGEN_160			EMGW_SYSGEN_161			EMGW_SYSGEN_161D		
LAB:		IT		IT					IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L	0.4140		NV	0.4950		NV				0.2000		UNV	0.2300		UNV
THORIUM-232	PCI/L	0.2900		UNV	0.2500		UNV				0.3100		UNV	0.3800		UNV
THORIUM, TOTAL	UG/L	2.6000		UNV	2.2000		UNV				2.8000		UNV	3.4000		UNV
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV				3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L	1.4900		NV	1.3900		NV				0.3430		NV	0.3800		UNV
GROSS ALPHA	PCI/L	11.4000		NV	0.0151		NV				5.4000		UNV	5.0000		UNV
GROSS BETA	PCI/L	24.4000		NV	0.0258		NV				9.4900		NV	13.9000		NV
URANIUM-235	PCI/L							0.0400		NV						
URANIUM-236	PCI/L							0.0100		NV						
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV				2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV				2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV				2.0000		UNV	2.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV				2.0000		UNV	2.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
STYRENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV

SAMPLE NUMBER:		EMGW_SYSGEN_159		EMGW_SYSGEN_159D		EMGW_SYSGEN_160			EMGW_SYSGEN_161			EMGW_SYSGEN_161D		
LAB:		NET		NET					NET			NET		
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV				2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV				1.0000		UNV	1.0000		UNV

000987

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_162	004000	004123	004140	066833
TASK:	GWMON	3.2.4	3.2.4	3.2.4	9.27
LAB:	NET	IT	IT	IT	IT
WELL OR BORING NUMBER:	1060	1064	1064	1064	1064
DEPTH:	-	-	-	-	-
DATE COLLECTED:	11-MAR-91	29-MAR-89	24-MAY-89	25-MAY-89	08-JAN-90
NORTH COORDINATE:	475865.6	480718.78	480718.78	480718.78	480718.78
EAST COORDINATE:	1380010.66	1382193.03	1382193.03	1382193.03	1382193.03
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	317.0000		NV												
AMMONIA	MG/L	0.0200		UNV	0.1470		-				0.1400		J			
CHLORIDE	MG/L	25.0000		NV	4.0000		-				6.0000		J			
FLUORIDE	MG/L	0.1800		NV	0.6600		-				0.7400		J			
NITRATE	MG/L				0.1500		J				0.7500		J			
NITRATE, AS NITROGEN	MG/L	1.1700		NV												
PH	STD	7.2500		NV												
PHENOLS	MG/L	0.0050		UNV	0.0100		U				0.0227		J			
PHOSPHORUS	MG/L	0.1000		NV	3.7300		J				5.0270		J			
SPECIFIC CONDUCTIVITY	UMHOS/CM	746.0000		NV												
SULFATE	MG/L	83.0000		NV	403.0000		-				121.0000		J			
SULFIDE	MG/L										0.1000		UJ			
TOTAL DISSOLVED SOLIDS	MG/L	406.0000		NV												
TOTAL KJELDAHL NITROGEN	MG/L				1.6500		-				2.1400		J			
TOTAL ORGANIC CARBON	MG/L	4.0000		NV							1.0000		UJ			
TOTAL ORGANIC HALIDES	MG/L				0.0039		-				0.0100		U			
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV												
TOTAL ORGANIC NITROGEN	MG/L				1.5000		-				2.0600		J			
INORGANICS																
ALUMINUM	MG/L	0.5000		UNV												
ANTIMONY	MG/L	0.0250		UNV												
ARSENIC	MG/L	0.0025		UNV	0.0020		U				0.0020		UJ			
BARIUM	MG/L	0.2000		UNV	0.0805		-				0.0647		J			
BERYLLIUM	MG/L	0.0100		UNV												
CADMIUM	MG/L	0.0010		UNV	0.0085		-				0.0099		J			
CALCIUM	MG/L	82.3000		NV	103.0000		-				100.0000		J			
CHROMIUM	MG/L	0.0050		UNV	0.0128		-				0.0403		J			
COBALT	MG/L	0.0250		UNV												

000988

5704

SAMPLE NUMBER:		EMGW_SYSGEN_162		004000			004123			004140			066833		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COPPER	MG/L	0.0250		UNV	0.0193		U				0.0157		J			
CYANIDE	MG/L	0.0050		UNV												
IRON	MG/L	0.4060		NV	0.1370		U				0.3620		J			
LEAD	MG/L	0.0050		UNV	0.0020		U				0.1180		J			
MAGNESIUM	MG/L	28.2000		NV	62.8000		-				63.4000		J			
MANGANESE	MG/L	0.0310		NV	0.2810		-				0.1036		J			
MERCURY	MG/L	0.0002		UNV	0.0010		J				0.0008		J			
MOLYBDENUM	MG/L	0.0250		UNV	0.0080		-				0.0118		J			
NICKEL	MG/L	0.0050		UNV	0.0308		-				0.0401		J			
POTASSIUM	MG/L	15.6000		NV	2.2300		-				2.5000		J			
SELENIUM	MG/L	0.0025		UNV	0.0020		R				0.0020		UJ			
SILVER	MG/L	0.0010		UNV	0.0005		U				0.0138		J			
SODIUM	MG/L	11.1000		NV	23.8000		-				21.3000		J			
THALLIUM	MG/L	0.0100		UNV												
VANADIUM	MG/L	0.0500		UNV												
ZINC	MG/L	0.0450		NV												
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L	0.5860		NV	3.3000	.9	-	5.0000	.8	-				2.8100	.55	-
URANIUM, TOTAL	UG/L	1.2600		NV	9.0000	2	-	14.0000	4	-				9.9100	1.07	J
URANIUM-234	PCI/L	0.5210		NV	4.2000	1.1	-	6.4000	1	-				3.9000	.69	R
THORIUM-230	PCI/L	0.2000		UNV	1.0000		U	1.0000		UJ				1.4600	.49	-
RADIUM-226	PCI/L	1.0000		UNV	1.0000		U	5.1000	.8	-						
URANIUM-235/236	PCI/L	0.2200		UNV	1.0000		U	1.0000		U				1.0000		U
THORIUM-232	PCI/L	0.2000		UNV	1.0000		U	1.0000		UJ						
THORIUM, TOTAL	UG/L	1.7000		UNV	3.0000		U	2.0000		UJ						
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UJ	5.4000	1.8	J						
THORIUM-228	PCI/L	1.1600		NV	1.0000		U	1.0000		UJ				1.0000		U
NEPTUNIUM-237	PCI/L	0.5000		UNV	1.0000		U	1.0000		U						
PLUTONIUM-239/240	PCI/L	0.5000		UNV	1.0000		U	1.0000		UJ						
PLUTONIUM-238	PCI/L	0.5000		UNV	1.0000		U	1.0000		UJ						
STRONTIUM-90	PCI/L				5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	17.0000		UNV	30.0000		U	30.0000		U				30.0000		U
RUTHENIUM-106	PCI/L	150.0000		UNV	150.0000		R	150.0000		UJ						
CESIUM-137	PCI/L	8.4000		UNV	20.0000		R	20.0000		UJ						
GROSS ALPHA	PCI/L	6.8000		UNV												
GROSS BETA	PCI/L	13.8000		NV												
SEMIVOLATILES																

000989

2-CHLOROETHYLVINYL ETHER	UG/L	10.0000	UNV														
SAMPLE NUMBER:		EMGW_SYSGEN_162		004000			004123			004140			066833		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																	
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV													
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV													
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV													
1,1-DICHLOROETHANE	UG/L	1.0000		UNV													
1,1-DICHLOROETHENE	UG/L	1.0000		UNV													
1,2-DICHLOROETHANE	UG/L	1.0000		UNV													
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV													
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV													
2-BUTANONE	UG/L	2.0000		UNV													
2-HEXANONE	UG/L	2.0000		UNV													
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV													
ACETONE	UG/L	13.9000		NV													
BENZENE	UG/L	1.0000		UNV													
BROMODICHLOROMETHANE	UG/L	1.0000		UNV													
BROMOFORM	UG/L	1.0000		UNV													
BROMOMETHANE	UG/L	1.0000		UNV													
CARBON DISULFIDE	UG/L	1.0000		UNV													
CARBON TETRACHLORIDE	UG/L	1.0000		UNV													
CHLOROBENZENE	UG/L	1.0000		UNV													
CHLOROETHANE	UG/L	1.0000		UNV													
CHLOROFORM	UG/L	1.0000		UNV													
CHLOROMETHANE	UG/L	1.0000		UNV													
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV													
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV													
ETHYLBENZENE	UG/L	1.0000		UNV													
METHYLENE CHLORIDE	UG/L	1.0000		UNV													
STYRENE	UG/L	1.0000		UNV													
TETRACHLOROETHENE	UG/L	1.0000		UNV													
TOLUENE	UG/L	1.0000		UNV													
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV													
TRICHLOROETHENE	UG/L	1.0000		UNV													
VINYL ACETATE	UG/L	2.0000		UNV													
VINYL CHLORIDE	UG/L	1.0000		UNV													
XYLENES, TOTAL	UG/L	1.0000		UNV													

000990

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_163			EMGW_SYSGEN_164			EMGW_SYSGEN_165			GW930112-1			GW930405-1		
TASK:		GWMON			GWMON			GWMON			RCRA			50.03.23		
LAB:		NET			NET			NET			NET			LOCKHEED		
WELL OR BORING NUMBER:		1064			1064			1064			1064			1064		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		26-APR-90			17-OCT-90			04-FEB-92			12-JAN-93			06-APR-93		
NORTH COORDINATE:		480718.78			480718.78			480718.78			480718.78			480718.78		
EAST COORDINATE:		1382193.03			1382193.03			1382193.03			1382193.03			1382193.03		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				358.0000		NV	372.0000		NV	366.0000		NV	420.0000		-
ALLYL CHLORIDE	UG/L										5.0000		UNV			
AMMONIA	MG/L				0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0500		U
BICARBONATE ALKALINITY	MG/L										470.0000		NV	420.0000		-
CARBONATE ALKALINITY	MG/L										3.0000		UNV	30.0000		U
CHLORIDE	MG/L	4.0000		NV	5.0000		NV	7.0000		NV	5.0000		NV	2.7000		-
FLUORIDE	MG/L				0.5700		NV	0.6800		NV	0.7000		NV	0.5800		-
NITRATE	MG/L										0.0300		NV			
NITRATE, AS NITROGEN	MG/L	0.0500		NV				0.0400		NV						
NITRATE/NITRITE	MG/L				0.0400		NV							0.0580		-
NITRITE, AS NITROGEN	MG/L										0.0200		UNV			
PH	STD				6.7800		NV	7.2100		NV	7.4900		NV	7.6000		-
PHENOLS	MG/L				0.0050		UNV	0.0050		UNV	0.0100		UNV	0.1500		U
PHOSPHORUS	MG/L				0.8600		NV	0.3100		NV	0.1000		UNV	0.0300		U
SPECIFIC CONDUCTIVITY	UMHOS/CM				865.0000		NV	871.0000		NV	908.0000		NV	760.0000		-
SULFATE	MG/L	174.0000		NV	112.0000		NV	120.0000		NV	130.0000		NV	100.0000		-
TOTAL DISSOLVED SOLIDS	MG/L				540.0000		NV	552.0000		NV	480.0000		NV	510.0000		-
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	2.0000		NV	17.0000		NV	19.0000		NV	1.2000		-
TOTAL ORGANIC HALIDES	MG/L													0.0450		U
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV			
TOTAL ORGANIC NITROGEN	MG/L													0.0000		-
TOTAL SOLIDS	MG/L										543.0000		NV	510.0000		-
INORGANICS																
ALUMINUM	MG/L							0.2000		UNV	0.2000		UNV	0.0360		U
ANTIMONY	MG/L							0.0200		UNV	0.0200		UNV	0.0310		U
ARSENIC	MG/L							0.0050		UNV	0.0050		UNV	0.0035		-
BARIUM	MG/L							0.2000		UNV	0.2000		UNV	0.0355		-
BERYLLIUM	MG/L							0.0050		UNV	0.0050		UNV	0.0010		U

000991

SAMPLE NUMBER:		EMGW_SYSGEN_163			EMGW_SYSGEN_164			EMGW_SYSGEN_165			GW930112-1			GW930405-1		
LAB:								NET			NET			LOCKHEED		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L							0.0010		UNV	0.0010		UNV	0.0020		U
CALCIUM	MG/L							101.0000		NV	93.0000		NV	98.5000		J
CHROMIUM	MG/L							0.0089		NV	0.0020		UNV	0.0030		U
COBALT	MG/L							0.0050		UNV	0.0050		UNV	0.0080		U
COPPER	MG/L							0.0200		UNV	0.0200		UNV	0.0040		U
CYANIDE	MG/L				0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0200		U
IRON	MG/L							0.1000		UNV	0.1300		NV	0.1710		U
LEAD	MG/L							0.0030		UNV	0.0030		UNV	0.0010		U
MAGNESIUM	MG/L							36.3000		NV	60.2000		NV	62.1000		-
MANGANESE	MG/L							0.0640		NV	0.0150		UNV	0.0035		-
MERCURY	MG/L							0.0002		UNV	0.0002		UNV	0.0002		U
MOLYBDENUM	MG/L							0.0100		UNV	0.0100		UNV	0.0150		U
NICKEL	MG/L							0.0100		UNV	0.0100		UNV	0.0310		U
POTASSIUM	MG/L							1.7000		NV	2.5000		NV	2.2200		-
SELENIUM	MG/L							0.0050		UNV	0.0050		UNV	0.0011		U
SILVER	MG/L							0.0010		UNV	0.0010		UNV	0.0030		U
SODIUM	MG/L							21.7000		NV	20.0000		NV	18.5000		-
THALLIUM	MG/L							0.0100		UNV	0.0100		UNV	0.0020		U
VANADIUM	MG/L							0.0500		UNV	0.0500		UNV	0.0070		U
ZINC	MG/L							0.0200		UNV	0.0200		UNV	0.0050		U
MISC																
1,2,3-TRICHLOROPROPANE	UG/L										5.0000		UNV			
1,2-DIBROMO-3-CHLOROPROPANE	UG/L										2.0000		UNV			
1,2-DIBROMOETHANE	UG/L										2.0000		UNV			
2-CHLORO-1,3-BUTADIENE	UG/L										5.0000		UNV			
ACROLEIN	UG/L										50.0000		UNV			
ACROLEIN	UG/L										50.0000		UNV			
ACRYLONITRILE	UG/L										50.0000		UNV			
DICHLORODIFLUOROMETHANE	UG/L										10.0000		UNV			
ETHYL CYANIDE	UG/L										20.0000		UNV			
ETHYL METHACRYLATE	UG/L										5.0000		UNV			
IODOMETHANE	UG/L										5.0000		UNV			
METHACRYLONITRILE	UG/L										5.0000		UNV			
METHYL METHACRYLATE	UG/L										5.0000		UNV			
PENTACHLOROETHANE	UG/L										5.0000		UNV			
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV			
TRANS-1,4-DICHLORO-2-BUTENE	UG/L										20.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	2.2600		NV										2.5000	.4	J
URANIUM, TOTAL	UG/L	5.2000		NV				6.0000		NV	9.4000		NV	7.5000		NV
URANIUM-234	PCI/L	3.1700		NV										2.9000	.5	J

000992

5704

SAMPLE NUMBER:		EMGW_SYSGEN_163			EMGW_SYSGEN_164			EMGW_SYSGEN_165			GW930112-1			GW930405-1		
LAB:		IT												CORE		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L	0.7280		NV							0.8000	.3	NV	0.2000	.2	UJ
RADIUM-226	PCI/L	1.0000		UNV							1.0000	.3	UNV	1.0000	.3	UJ
URANIUM-235/236	PCI/L	0.2200		UNV										0.2000	.2	UJ
THORIUM-232	PCI/L	0.5000		UNV							0.2000	.1	UNV	0.2000	.1	UJ
THORIUM, TOTAL	UG/L	4.6000		UNV							2.0000		NV			
RADIUM-228	PCI/L	3.0000		UNV							3.0000	1.2	UNV	3.0000	1.2	U
THORIUM-228	PCI/L	0.5740		NV							0.2000	.1	UNV	0.3000	.1	UJ
TECHNETIUM-99	PCI/L													14.3000	5.8	R
GROSS ALPHA	PCI/L	15.0000		UNV							4.0000	2.3	NV	4.4000	2.6	UNV
GROSS BETA	PCI/L	27.0000		UNV							2.9000	2.6	NV	5.2000	2.4	NV
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L	1.0000		UNV												
1,4-DICHLOROBENZENE	UG/L	1.0000		UNV												
2-CHLOROETHYLVINYL ETHER	UG/L	60.0000		UNV	10.0000		UNV	10.0000		UNV	10.0000		UNV			
CUMENE	UG/L										1.0000		UNV			
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L										1.0000		UNV			
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	1.0000		UNV				10.0000		UJ
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
2-BUTANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ
2-HEXANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ
ACETONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		UJ
CARBON DISULFIDE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
CHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		UJ
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ

000993

SAMPLE NUMBER:		EMGW_SYSGEN_163			EMGW_SYSGEN_164			EMGW_SYSGEN_165			GW930112-1			GW930405-1		
LAB:		NET			NET			NET			NET			LOCKHEED		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		UJ
STYRENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ
TRICHLOROFLUOROMETHANE	UG/L	1.0000		UNV							1.0000		UNV			
VINYL ACETATE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UNV			
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		UJ
XYLENES, TOTAL	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UJ

000994

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003136	003860	066834	112013	112014
TASK:	3.2.4	3.2.4	9.27	20.03.05	20.03.05
LAB:	IT	IT	IT	IT/RSL	IT
WELL OR BORING NUMBER:	1065	1065	1065	1065	1065
DEPTH:	-	-	-	-	-
DATE COLLECTED:	14-APR-88	22-JAN-89	13-DEC-89	04-MAY-93	04-MAY-93
NORTH COORDINATE:	477860.01	477860.01	477860.01	477860.01	477860.01
EAST COORDINATE:	1380415.98	1380415.98	1380415.98	1380415.98	1380415.98
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										360.0000		-			
AMMONIA	MG/L	0.1000		U	0.1000		U				0.1000		U			
CHLORIDE	MG/L	0.5000		UJ	4.8000		-				2.7700		-			
FLUORIDE	MG/L	0.3500		-	0.4000		-				0.2300		-			
NITRATE	MG/L	0.1000		UJ	0.0600		J				0.1000		R			
PHENOLS	MG/L	0.0200		-	0.0100		U				0.0100		U			
PHOSPHORUS	MG/L	0.0500		UJ	0.1000		U				0.0800		-			
SULFATE	MG/L	10.0000		J	89.0000		-				71.7000		-			
SULFIDE	MG/L										0.5000		U			
TOTAL KJELDAHL NITROGEN	MG/L				0.1000		U				0.3400		-			
TOTAL ORGANIC CARBON	MG/L										1.1500		-			
TOTAL ORGANIC HALIDES	MG/L				0.0100		U				0.0114		UJ			
TOTAL ORGANIC NITROGEN	MG/L	0.1000		-	0.1000		U				0.3400		-			
INORGANICS																
ALUMINUM	MG/L										0.7740		-	0.0690		U
ANTIMONY	MG/L										0.0041		UJ	0.0141		J
ARSENIC	MG/L	0.2000		UJ	0.0020		U				0.0010		U	0.0010		U
BARIUM	MG/L	0.0340		J	0.0420		-				0.0486		-	0.0475		-
BERYLLIUM	MG/L										0.0010		U	0.0010		U
CADMIUM	MG/L	0.0050		UJ	0.0060		-				0.0340		-	0.0020		U
CALCIUM	MG/L	89.0000		J	97.4000		-				106.0000		-	108.0000		-
CHROMIUM	MG/L	0.0200		UJ	0.0230		-				0.0046		-	0.0040		U
COBALT	MG/L										0.0030		U	0.0030		U
COPPER	MG/L	0.0100		UJ	0.0190		-				0.0099		U	0.0088		U
CYANIDE	MG/L										0.0010		U	0.0010		R
IRON	MG/L	0.0050		UJ	0.0450		U				1.8200		-	0.0906		U
LEAD	MG/L	0.0500		UJ	0.0020		UJ				0.0016		-	0.0010		U
MAGNESIUM	MG/L	29.5000		J	31.3000		-				35.5000		-	37.9000		-

000995

SAMPLE NUMBER:		003136			003860			066834			112013			112014		
LAB:		IT			IT						IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			-			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	0.0200		UJ	0.0080		-				0.0559		-	0.0039		U
MERCURY	MG/L	0.0002		UJ	0.0002		U				0.0002		U	0.0002		U
MOLYBDENUM	MG/L	0.0200		UJ	0.0200		U				0.0041		U	0.0030		U
NICKEL	MG/L	0.0200		UJ	0.0200		U				0.0072		-	0.0030		U
POTASSIUM	MG/L	1.0500		J	0.8910		-				0.8940		U	0.6320		U
SELENIUM	MG/L	0.2000		UJ	0.0020		U				0.0010		U	0.0010		U
SILICON	MG/L										6.6100		-	5.6700		-
SILVER	MG/L	0.0400		J	0.0005		U				0.0020		U	0.0020		U
SODIUM	MG/L	5.7100		J	8.6000		-				8.8100		-	8.0400		-
THALLIUM	MG/L										0.0010		U	0.0010		U
VANADIUM	MG/L										0.0100		U	0.0066		U
ZINC	MG/L										0.1220		-	0.0372		-
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U			
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		UJ			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		UJ			
ALPHA-CHLORDANE	UG/L										0.0500		U			
AROCLOR-1016	UG/L										1.0000		U			
AROCLOR-1221	UG/L										2.0000		U			
AROCLOR-1232	UG/L										1.0000		U			
AROCLOR-1242	UG/L										1.0000		U			
AROCLOR-1248	UG/L										1.0000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		UJ			
DIELDRIN	UG/L										0.1000		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.1000		U			
ENDRIN ALDEHYDE	UG/L										0.1000		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		UJ			
GAMMA-CHLORDANE	UG/L										0.0500		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										5.0000		U			

000996

5704

RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U	1.0000		U	1.0700	.28	-	0.5336	.2298	J	0.4670	.2144	-
06/20/94															DRAFT	
															Page	322

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003136	003860	066834	112013	112014
LAB:	IT	IT	IT	IT	IT
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	1.0000	1	-	2.0000	1	-	5.3300	.57	-	1.3640	.15	-	1.1010	.117	-
URANIUM-234	PCI/L	1.0000		U	1.0000		U	1.0600	.28	-	0.5376	.2294	J	0.6399	.258	-
THORIUM-230	PCI/L	1.0000		U	1.2000		UJ	1.0000		U	0.3656	.1936	U	0.2000	.1243	UJ
RADIUM-226	PCI/L	0.4000	.5	R	1.0000		U				1.0000	.0802	UJ	1.0000	.0359	UJ
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	1.0000		U	0.2000	.0526	UJ	0.2000	.04598	UJ
THORIUM-232	PCI/L	1.0000		U	1.2000		UJ				0.2000	.07724	UJ	0.2000	.1007	UJ
THORIUM, TOTAL	UG/L				11.0000		UJ				1.1160	.704	UJ	0.9200	.92	UJ
RADIUM-228	PCI/L	3.0000	1.3	U	3.1000		UJ				3.0000	.888	UJ	3.0000	1.8	UJ
THORIUM-228	PCI/L	1.0000		U	1.2000		UJ	1.0400	.56	J	0.2000	.0919	UJ	0.2000	.07152	UJ
NEPTUNIUM-237	PCI/L	1.0000		U	1.2000		UJ				0.5000	.1375	UJ	0.5000	.18	UJ
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ				0.5000	.08973	U	0.5000	.0403	UJ
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U				0.5000	.0847	UJ	0.5000	.0957	UJ
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U				1.0000	.487	UJ	1.8200	.535	U
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U	15.0000	6.22	UJ	15.0000	6.51	UJ
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R				150.0000		UJ	150.0000		UJ
CESIUM-137	PCI/L	20.0000		R	20.0000		R				10.5000		UJ	10.1350		UJ
GROSS ALPHA	PCI/L										-0.5320	4.39	UJ			
GROSS BETA	PCI/L										5.0300	3.73	UJ			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										25.0000		R			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										25.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										10.0000		U			
3-NITROANILINE	UG/L										25.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										25.0000		UJ			

000997

SAMPLE NUMBER:	003136			003860			066834			112013			112014		
LAB:										IT/MWL					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4-BROMOPHENYL PHENYL ETHER UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER UG/L										10.0000		U			
4-METHYLPHENOL UG/L										10.0000		U			
4-NITROANILINE UG/L										25.0000		U			
4-NITROPHENOL UG/L										25.0000		UJ			
ACENAPHTHENE UG/L										10.0000		U			
ACENAPHTHYLENE UG/L										10.0000		U			
ANTHRACENE UG/L										10.0000		U			
BENZO(A)ANTHRACENE UG/L										10.0000		U			
BENZO(A)PYRENE UG/L										10.0000		U			
BENZO(B)FLUORANTHENE UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE UG/L										10.0000		U			
BENZO(K)FLUORANTHENE UG/L										10.0000		U			
BENZOIC ACID UG/L										50.0000		R			
BENZYL ALCOHOL UG/L										10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										10.0000		UJ			
BUTYL BENZYL PHTHALATE UG/L										10.0000		U			
CARBAZOLE UG/L										10.0000		U			
CHRYSENE UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE UG/L										10.0000		R			
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		UJ			
DIBENZOFURAN UG/L										10.0000		U			
DIETHYL PHTHALATE UG/L										10.0000		U			
DIMETHYL PHTHALATE UG/L										10.0000		U			
FLUORANTHENE UG/L										10.0000		U			
FLUORENE UG/L										10.0000		U			
HEXACHLOROBENZENE UG/L										10.0000		U			
HEXACHLOROBUTADIENE UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		U			
HEXACHLOROETHANE UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE UG/L										10.0000		U			
NAPHTHALENE UG/L										10.0000		U			
NITROBENZENE UG/L										10.0000		U			
P-CHLOROANILINE UG/L										10.0000		U			
PENTACHLOROPHENOL UG/L										25.0000		U			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		U			

000998

5704

SAMPLE NUMBER:		003136			003860			066834			112013			112014		
LAB:											IT/MWL					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PYRENE	UG/L										10.0000		U			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	5.0000		UJ							10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		UJ							10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	5.0000		UJ							10.0000		U			
1,1-DICHLOROETHANE	UG/L	5.0000		UJ							10.0000		UJ			
1,1-DICHLOROETHENE	UG/L	5.0000		UJ							10.0000		U			
1,2-DICHLOROETHANE	UG/L	5.0000		UJ							10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		UJ							10.0000		U			
1,2-DICHLOROPROPANE	UG/L	5.0000		UJ							10.0000		U			
2-BUTANONE	UG/L	10.0000		R							10.0000		UJ			
2-HEXANONE	UG/L	10.0000		UJ							10.0000		U			
4-METHYL-2-PENTANONE	UG/L	10.0000		UJ							10.0000		U			
ACETONE	UG/L	10.0000		R							16.0000		R			
BENZENE	UG/L	5.0000		UJ							10.0000		U			
BROMODICHLOROMETHANE	UG/L	5.0000		UJ							10.0000		U			
BROMOFORM	UG/L	5.0000		UJ							10.0000		U			
BROMOMETHANE	UG/L	10.0000		UJ							10.0000		U			
CARBON DISULFIDE	UG/L	5.0000		UJ							10.0000		UJ			
CARBON TETRACHLORIDE	UG/L	5.0000		UJ							10.0000		U			
CHLOROBENZENE	UG/L	5.0000		UJ							10.0000		U			
CHLOROETHANE	UG/L	10.0000		UJ							10.0000		UJ			
CHLOROFORM	UG/L	5.0000		UJ							10.0000		U			
CHLOROMETHANE	UG/L	10.0000		UJ							10.0000		R			
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		UJ							10.0000		U			
DIBROMOCHLOROMETHANE	UG/L	5.0000		UJ							10.0000		U			
ETHYLBENZENE	UG/L	5.0000		UJ							10.0000		U			
METHYLENE CHLORIDE	UG/L	5.0000		UJ							10.0000		U			
STYRENE	UG/L	5.0000		UJ							10.0000		U			
TETRACHLOROETHENE	UG/L	5.0000		UJ							10.0000		U			
TOLUENE	UG/L	5.0000		UJ							10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		UJ							10.0000		U			
TRICHLOROETHENE	UG/L	5.0000		UJ							10.0000		U			
VINYL ACETATE	UG/L	10.0000		UJ							10.0000		UJ			
VINYL CHLORIDE	UG/L	10.0000		UJ							10.0000		UJ			
XYLENES, TOTAL	UG/L	5.0000		UJ							10.0000		U			

000999

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	113292	113293	EMGW_SYSGEN_167	EMGW_SYSGEN_168	EMGW_SYSGEN_168D
TASK:	20.03.05	20.03.05	GWMON	GWMON	GWMON
LAB:	FERMCO	FERMCO	NET	NET	NET
WELL OR BORING NUMBER:	1065	1065	1065	1065	1065
DEPTH:	-	-	-	-	-
DATE COLLECTED:	04-MAY-93	04-MAY-93	16-APR-90	16-OCT-90	16-OCT-90
NORTH COORDINATE:	477860.01	477860.01	477860.01	477860.01	477860.01
EAST COORDINATE:	1380415.98	1380415.98	1380415.98	1380415.98	1380415.98
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DUPLICATE
QC OF:					EMGW_SYSGEN_168
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										326.0000		NV	312.0000		NV
AMMONIA	MG/L										0.0200		UNV	0.0300		NV
CHLORIDE	MG/L							8.0000		NV	4.0000		NV	6.0000		NV
FLUORIDE	MG/L										1.0000		NV	1.0300		NV
NITRATE, AS NITROGEN	MG/L							0.0200		NV						
NITRATE/NITRITE	MG/L										0.0700		NV	0.0700		NV
PH	STD										6.9700		NV	6.9900		NV
PHENOLS	MG/L										0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L										2.2300		NV	1.3200		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM										820.0000		NV	818.0000		NV
SULFATE	MG/L							58.0000		NV	52.0000		NV	60.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L										690.0000		NV	580.0000		NV
TOTAL ORGANIC CARBON	MG/L							3.0000		NV	3.0000		NV	2.0000		NV
TOTAL ORGANIC HALOGENS	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV
INORGANICS																
CYANIDE	MG/L										0.0050		UNV	0.0050		UNV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L							1.2500		NV						
URANIUM, TOTAL	UG/L	1.4000		UNV	1.3000		UNV	3.7700		NV						
URANIUM-234	PCI/L							1.2500		NV						
THORIUM-230	PCI/L							1.0700		NV						
RADIUM-226	PCI/L							1.1400		NV						

001000

5204

SAMPLE NUMBER:		113292			113293			EMGW_SYSGEN_167			EMGW_SYSGEN_168			EMGW_SYSGEN_168D		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L							0.2900		UNV						
THORIUM-232	PCI/L							0.9070		NV						
THORIUM, TOTAL	UG/L							8.1800		NV						
RADIUM-228	PCI/L							3.0000		UNV						
THORIUM-228	PCI/L							1.0700		NV						
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L							1.0000		UNV						
1,4-DICHLOROBENZENE	UG/L							1.0000		UNV						
2-CHLOROETHYLVINYL ETHER	UG/L							60.0000		UNV	10.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L										2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L										2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L										2.0000		UNV	2.0000		UNV
ACETONE	UG/L										2.0000		UNV	2.0000		UNV
BENZENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L										1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L										1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV

SAMPLE NUMBER:		113292			113293			EMGW_SYSGEN_167			EMGW_SYSGEN_168			EMGW_SYSGEN_168D		
LAB:								NET			NET			NET		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L										2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L										1.0000		UNV	1.0000		UNV

001002

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003228	003569	003775	003951	120458
TASK:	3.2.4	3.2.4	3.2.4	3.2.4	50.03.23
LAB:	IT	IT	IT	IT	DATACHEM
WELL OR BORING NUMBER:	1073	1073	1073	1073	1073
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-MAY-88	24-AUG-88	04-DEC-88	12-MAR-89	15-JUL-93
NORTH COORDINATE:	481417.66	481417.66	481417.66	481417.66	481417.66
EAST COORDINATE:	1378202.78	1378202.78	1378202.78	1378202.78	1378202.78
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	5.3000		J	36.6000		J	62.3000		-	54.6000		-			
CHLORIDE	MG/L	829.0000		J	1250.0000		-	1030.0000		R	1170.0000		-			
FLUORIDE	MG/L	5.1800		J	5.4000		J	6.2500		-	7.2500		-			
NITRATE	MG/L	19.0000		J	16.2000		J	94.8000		-	197.0000		-			
PHENOLS	MG/L	0.2400		J	0.0200		J	0.0100		U	0.0100		U	0.0020		U
PHOSPHORUS	MG/L				0.0500		U	0.4930		-						
SULFATE	MG/L	327.0000		J	328.0000		J	612.0000		-	428.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L	29.3500		J				37.6000		-	0.1000		U			
TOTAL ORGANIC HALIDES	MG/L				0.6600		J	0.1300		-	0.1800		-			
TOTAL ORGANIC NITROGEN	MG/L	23.9700		J							0.1000		U			
INORGANICS																
ALUMINUM	MG/L	0.2080		J										0.0600		U
ANTIMONY	MG/L	0.0467		UJ										0.0157		U
ARSENIC	MG/L	0.0032		J	0.0020		U	0.0020		R	0.0020		U	0.0016		-
BARIUM	MG/L	0.2130		J	0.1360		U	0.1380		-	0.1260		-	0.0640		-
BERYLLIUM	MG/L	0.0024		UJ										0.0003		U
CADMIUM	MG/L	0.0007		UJ	0.0020		U	0.0020		-	0.0364		-	0.0012		U
CALCIUM	MG/L	344.0000		J	457.0000		-	413.0000		-	4000.0000		-	426.0000		-
CHROMIUM	MG/L	0.0027		J	0.0200		U	0.0200		U	0.0464		-	0.0196		U
COBALT	MG/L	0.0052		UJ										0.0132		U
COPPER	MG/L	0.0117		J	0.0150		-	0.0140		-	0.0836		-	0.0024		U
CYANIDE	MG/L	0.0200		UJ										0.0100		U
IRON	MG/L	0.2030		J	0.0050		U	0.0730		J	0.1720		U	0.0365		U
LEAD	MG/L	0.0105		UJ	0.0020		UJ	0.0040		J	0.0020		U	0.0013		J
MAGNESIUM	MG/L	282.0000		J	355.0000		-	325.0000		-	364.0000		-	267.0000		-
MANGANESE	MG/L	1.4600		J	2.8000		-	2.1000		-	0.6890		-	1.8400		-
MERCURY	MG/L	0.0003		R	0.0002		U	0.0007		J	30.2000		-	0.0002		U
MOLYBDENUM	MG/L	0.3740		J	0.4770		-	0.5330		J	0.5800		-			

SAMPLE NUMBER:		003228		003569		003775		003951		120458	
LAB:		IT		IT		IT		IT			
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
INORGANICS											
NICKEL	MG/L	0.0709	J	0.1610	-	0.0660	-	0.1140	-	0.0691	-
POTASSIUM	MG/L	21.3000	J	22.2000	-	33.0000	-	0.0007	-	17.6000	-
SELENIUM	MG/L	0.0018	UJ	0.0020	UJ	0.0020	R	0.0020	U	0.0020	UJ
SILVER	MG/L	0.0043	UJ	0.0100	U	0.0200	U	0.0005	U	0.0202	J
SODIUM	MG/L	134.0000	J	148.0000	-	149.0000	-	178.0000	-	110.0000	-
THALLIUM	MG/L	0.0041	UJ							0.0010	UJ
VANADIUM	MG/L	0.0034	UJ							0.0029	U
ZINC	MG/L	0.0200	J							0.0040	U
ORGANOPHOSPHORUS											
AZINPHOSMETHYL	UG/L	5.0000	U								
DEMETON	UG/L	1.0000	U								
DIAZINON	UG/L	0.5000	U								
DISULFOTON	UG/L	0.5000	U								
ETHION	UG/L	0.5000	U								
MALATHION	UG/L	1.0000	U								
METHYL PARATHION	UG/L	1.0000	U								
PARATHION	UG/L	0.5000	U								
PESTICIDES											
4,4'-DDD	UG/L	0.1000	U								
4,4'-DDE	UG/L	0.1000	U								
4,4'-DDT	UG/L	0.1000	U								
ALDRIN	UG/L	0.0500	U								
ALPHA-BHC	UG/L	0.0500	U								
ALPHA-CHLORDANE	UG/L	0.5000	U								
AROCLOR-1016	UG/L	0.5000	U								
AROCLOR-1221	UG/L	0.5000	U								
AROCLOR-1232	UG/L	0.5000	U								
AROCLOR-1242	UG/L	0.5000	U								
AROCLOR-1248	UG/L	0.5000	U								
AROCLOR-1254	UG/L	1.0000	U								
AROCLOR-1260	UG/L	1.0000	U								
BETA-BHC	UG/L	0.0500	U								
DELTA-BHC	UG/L	0.0500	U								
DIELDRIN	UG/L	0.0500	U								
ENDOSULFAN II	UG/L	0.1000	U								
ENDOSULFAN SULFATE	UG/L	0.1000	U								
ENDOSULFAN-I	UG/L	0.0500	U								
ENDRIN	UG/L	0.0500	U								
ENDRIN KETONE	UG/L	0.1000	U								
GAMMA-BHC (LINDANE)	UG/L	0.0500	U								
GAMMA-CHLORDANE	UG/L	0.5000	U								

SAMPLE NUMBER:		003228		003569			003775			003951			120458		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
HEPTACHLOR	UG/L	0.0500	U												
HEPTACHLOR EPOXIDE	UG/L	0.0500	U												
METHOXYCHLOR	UG/L	0.5000	U												
TOXAPHENE	UG/L	1.0000	U												
RADIONUCLIDES															
URANIUM-238	PCI/L	730.000042	J	1224.0000	182	-	1156.0000	135	J	1290.0000	157	J			
URANIUM, TOTAL	UG/L	2215.000B2	R	3200.0000	500	-	3297.0000	525	-	4380.0000	728	-			
URANIUM-234	PCI/L	599.000017	J	968.0000	144	-	959.0000	112	J	895.0000	109	J			
THORIUM-230	PCI/L	1.8000 .8	J	1.0000		U	1.0000		UJ	23.3000	3.4	J			
RADIUM-226	PCI/L	1.0000	U	1.3000	.4	J	3.5000	.6	-	4.2000	.7	-			
URANIUM-235/236	PCI/L	38.80009.1	J	9.9000	2.2	-	43.4000	5.4	J	30.5000	4.2	J			
THORIUM-232	PCI/L	9.9000 2.2	J	1.0000		U	1.4000	.7	J	2.7000	.7	J			
THORIUM, TOTAL	UG/L	90.28822.2	NV	9.0000		U	12.0000	7	J	25.0000	6	J			
RADIUM-228	PCI/L	3.0000	UJ	4.6000	1.6	-	3.0000		U	3.0000		R			
THORIUM-228	PCI/L	1.3000 .4	J	1.0000		U	1.0000		UJ	1.4000	.5	J			
NEPTUNIUM-237	PCI/L	1.0000	UJ	1.0000		U	1.0000		UJ	1.0000		UJ			
PLUTONIUM-239/240	PCI/L	1.0000	UJ	1.0000		U	1.0000		UJ	1.0000		UJ			
PLUTONIUM-238	PCI/L	1.0000	UJ	1.0000		U	1.0000		UJ	1.0000		UJ			
STRONTIUM-90	PCI/L	5.0000	U	5.0000		U	5.0000		U	5.0000		U			
TECHNETIUM-99	PCI/L	30.0000	UJ	2805.0000	284	-	1097.0000	117	-	1600.0000	200	J			
RUTHENIUM-106	PCI/L	150.0000	R	150.0000		R	150.0000		R	150.0000		R			
CESIUM-137	PCI/L	20.0000	R	20.0000		R	20.0000		R	20.0000		R			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	UG/L	10.0000	U												
1,2-DICHLOROBENZENE	UG/L	10.0000	U												
1,3-DICHLOROBENZENE	UG/L	10.0000	U												
1,4-DICHLOROBENZENE	UG/L	10.0000	U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000	U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000	U												
2,4-DICHLOROPHENOL	UG/L	10.0000	U												
2,4-DIMETHYLPHENOL	UG/L	10.0000	U												
2,4-DINITROPHENOL	UG/L	50.0000	UJ												
2,4-DINITROTOLUENE	UG/L	10.0000	U												
2,6-DINITROTOLUENE	UG/L	10.0000	U												
2-CHLORONAPHTHALENE	UG/L	10.0000	U												
2-CHLOROPHENOL	UG/L	10.0000	U												
2-METHYLNAPHTHALENE	UG/L	10.0000	U												
2-METHYLPHENOL	UG/L	10.0000	U												
2-NITROANILINE	UG/L	50.0000	U												
2-NITROPHENOL	UG/L	10.0000	U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000	UJ												

SAMPLE NUMBER:		003228			003569			003775			003951			120458		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L	50.0000		U												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		UJ												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		UJ												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		U												
4-NITROPHENOL	UG/L	50.0000		UJ												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		U												
BENZYL ALCOHOL	UG/L	10.0000		UJ												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		UJ												
BUTYL BENZYL PHTHALATE	UG/L	3.0000		J												
CHRYSENE	UG/L	10.0000		U												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		UJ												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												
DIMETHYL PHTHALATE	UG/L	10.0000		U												
FLUORANTHENE	UG/L	10.0000		U												
FLUORENE	UG/L	10.0000		U												
HEXACHLOROBENZENE	UG/L	10.0000		UJ												
HEXACHLOROBUTADIENE	UG/L	10.0000		U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U												
HEXACHLOROETHANE	UG/L	10.0000		U												
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U												
ISOPHORONE	UG/L	10.0000		U												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U												
N-NITROSODIPHENYLAMINE	UG/L	50.0000		U												
NAPHTHALENE	UG/L	10.0000		U												
NITROBENZENE	UG/L	10.0000		U												
P-CHLOROANILINE	UG/L	10.0000		U												
PENTACHLOROPHENOL	UG/L	50.0000		UJ												
PHENANTHRENE	UG/L	10.0000		U												

SAMPLE NUMBER:		003228		003569			003775			003951			120458		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENOL	MG/L	10.0000		U												
PYRENE	UG/L	10.0000		U												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	5.0000		J										8.0000		J
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U										10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U										10.0000		U
1,1-DICHLOROETHANE	UG/L	76.0000		-										48.0000		-
1,1-DICHLOROETHENE	UG/L	2.0000		J										2.0000		J
1,2-DICHLOROETHANE	UG/L	5.0000		UJ										10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U										10.0000		UJ
1,2-DICHLOROPROPANE	UG/L	5.0000		U										10.0000		U
2-BUTANONE	UG/L	10.0000		R										10.0000		U
2-HEXANONE	UG/L	10.0000		U										10.0000		U
4-METHYL-2-PENTANONE	UG/L	10.0000		U										10.0000		U
ACETONE	UG/L	10.0000		U										10.0000		UJ
BENZENE	UG/L	5.0000		UJ										10.0000		U
BROMODICHLOROMETHANE	UG/L	5.0000		U										10.0000		U
BROMOFORM	UG/L	5.0000		U										10.0000		U
BROMOMETHANE	UG/L	10.0000		U										10.0000		U
CARBON DISULFIDE	UG/L	5.0000		UJ										10.0000		U
CARBON TETRACHLORIDE	UG/L	5.0000		U										10.0000		U
CHLOROBENZENE	UG/L	5.0000		UJ										10.0000		U
CHLOROETHANE	UG/L	10.0000		U										10.0000		U
CHLOROFORM	UG/L	5.0000		U										10.0000		U
CHLOROMETHANE	UG/L	10.0000		U										10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U										10.0000		U
DIBROMOCHLOROMETHANE	UG/L	5.0000		U										10.0000		U
ETHYLBENZENE	UG/L	5.0000		UJ										10.0000		U
METHYLENE CHLORIDE	UG/L	16.0000		UJ										10.0000		U
STYRENE	UG/L	5.0000		UJ										10.0000		U
TETRACHLOROETHENE	UG/L	5.0000		U										10.0000		U
TOLUENE	UG/L	5.0000		UJ										10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U										10.0000		U
TRICHLOROETHENE	UG/L	5.0000		U										10.0000		U
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U										10.0000		U
XYLENES, TOTAL	UG/L	5.0000		UJ										10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120460	120460F	120463	120464	EMGW_SYSGEN_169
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	GWMON
LAB:	CORE	CORE	DATACHEM	DATACHEM	IT
WELL OR BORING NUMBER:	1073	1073	1073	1073	1073
DEPTH:	-	-	-	-	-
DATE COLLECTED:	15-JUL-93	15-JUL-93	16-JUL-93	22-JUL-93	22-MAR-90
NORTH COORDINATE:	481417.66	481417.66	481417.66	481417.66	481417.66
EAST COORDINATE:	1378202.78	1378202.78	1378202.78	1378202.78	1378202.78
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							360.0000		-						
AMMONIA	MG/L										30.0000		-			
CHLORIDE	MG/L							1100.0000		-						
FLUORIDE	MG/L							2.5000		-						
NITRATE/NITRITE	MG/L							180.0000		-						
PHOSPHORUS	MG/L										0.7400		-			
SULFATE	MG/L							190.0000		-						
SULFIDE	MG/L										1.0000		U			
TOTAL KJELDAHL NITROGEN	MG/L										35.0000		J			
TOTAL ORGANIC CARBON	MG/L							8.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.1900		-						
TOTAL ORGANIC NITROGEN	MG/L										5.0000		J			
INORGANICS																
ALUMINUM	MG/L							1.2400		-	7.0400		-			
ANTIMONY	MG/L							0.0157		U	2.2500		U			
ARSENIC	MG/L							0.0028		-	0.0061		-			
BARIUM	MG/L							0.0887		-	0.1310		-			
BERYLLIUM	MG/L							0.0003		U	0.0010		U			
CADMIUM	MG/L							0.0013		U	0.0030		U			
CALCIUM	MG/L							479.0000		-	450.0000		-			
CHROMIUM	MG/L							0.2610		-	0.1050		-			
COBALT	MG/L							0.0034		U	0.0075		-			
COPPER	MG/L							0.0106		U	0.0225		-			
CYANIDE	MG/L										0.0100		U			
IRON	MG/L							2.6800		-	12.8000		-			
LEAD	MG/L							0.0013		J	0.0064		J			
MAGNESIUM	MG/L							307.0000		-	335.0000		-			
MANGANESE	MG/L							1.8100		-	1.4700		-			

SAMPLE NUMBER:		120460			120460F			120463			120464			EMGW_SYSGEN_169		
LAB:								DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L							0.0002		U	0.0002		U			
NICKEL	MG/L							0.0901		-	0.0982		-			
POTASSIUM	MG/L							16.9000		-	22.6000		-			
SELENIUM	MG/L							0.0020		UJ	0.0200		UJ			
SILVER	MG/L							0.0030		J	0.0030		UJ			
SODIUM	MG/L							129.0000		-	143.0000		-			
THALLIUM	MG/L							0.0010		UJ	0.0010		UJ			
VANADIUM	MG/L							0.0029		U	0.0040		U			
ZINC	MG/L							0.0102		-	3380.0000		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	856.00	94	J	866.0000	105	R							1240.0000		NV
URANIUM, TOTAL	UG/L	2550.00	08	-	2360.0000	165	-							3730.0000		NV
URANIUM-234	PCI/L	682.00	07.7	J	751.0000	93.2	R							961.0000		NV
THORIUM-230	PCI/L	7.4000	1.5	R	0.2000	.2	U									
RADIUM-226	PCI/L	6.6000	1	J	1.9000	.5	J									
URANIUM-235/236	PCI/L	22.10	023.7	J	34.2000	24.7	R							69.3000		NV
THORIUM-232	PCI/L	0.6000	.2	R	0.2000	.1	U									
RADIUM-228	PCI/L	3.0000	1.5	U	3.0000	1.1	U									
THORIUM-228	PCI/L	2.1000	.4	R	0.2000	.3	U									
TECHNETIUM-99	PCI/L	426.00	08.4	-	488.0000	33.1	-									

001009

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003229			003522			003766			003952			066426				
TASK:		3.2.4			3.2.4			3.2.4			3.2.4			9.25				
LAB:		IT			IT			IT			IT			IT				
WELL OR BORING NUMBER:		1074			1074			1074			1074			1074				
DEPTH:		-			-			-			-			-				
DATE COLLECTED:		23-MAY-88			22-AUG-88			04-DEC-88			12-MAR-89			18-JUN-89				
NORTH COORDINATE:		481187.08			481187.08			481187.08			481187.08			481187.08				
EAST COORDINATE:		1378638.85			1378638.85			1378638.85			1378638.85			1378638.85				
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL				
QC OF:																		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF				
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)		
GENERAL CHEMISTRY																		
AMMONIA	MG/L	0.5000		UJ	0.1000		UJ	0.1150		-	0.3000		U					
CHLORIDE	MG/L	108.0000		J	105.0000		-	123.0000		R	130.0000		-	130.0000		-		
FLUORIDE	MG/L	1.2500		J	1.5000		J	1.0500		-	1.2000		-	1.1400		-		
NITRATE	MG/L	0.3900		J	0.1300		J	0.1000		U	0.0200		U	0.1000		UR		
PHENOLS	MG/L	0.0600		J	0.0200		-	0.0100		U	0.0070		-					
PHOSPHORUS	MG/L				0.3000		J	0.7740		-	0.0100		U					
SULFATE	MG/L	60.9000		J	411.0000		J	43.8000		-	64.0000		-	83.9000		-		
TOTAL KJELDAHL NITROGEN	MG/L	0.5000		UJ				0.7080		-	0.3000		U					
TOTAL ORGANIC CARBON	MG/L													3.2800		UJ		
TOTAL ORGANIC HALIDES	MG/L				0.0500		U	0.0500		U	0.0500		U	0.0100		UJ		
TOTAL ORGANIC NITROGEN	MG/L	0.5000		UJ	0.3000		J	0.5930		-	0.0000		-					
INORGANICS																		
ALUMINUM	MG/L	0.0418		J										0.1310		-		
ANTIMONY	MG/L	0.0467		UJ														
ARSENIC	MG/L	0.0031		J	0.0020		U	0.0020		R	0.0030		U					
BARIUM	MG/L	0.0836		J	0.0920		-	0.0970		-	0.0690		-	0.0790		-		
BERYLLIUM	MG/L	0.0024		UJ										0.0010		U		
CADMIUM	MG/L	0.0007		UJ	0.0020		U	0.0020		U	0.0060		-					
CALCIUM	MG/L	123.0000		J	121.0000		-	123.0000		-	130.0000		-	128.0000		-		
CHROMIUM	MG/L	0.0017		UJ	0.0200		U	0.0200		U	0.0400		-	0.0413		-		
COBALT	MG/L	0.0052		UJ										0.0100		U		
COPPER	MG/L	0.0067		UJ	0.0100		U	0.0100		U	0.0100		-	0.0100		U		
CYANIDE	MG/L	0.0200		UJ														
IRON	MG/L	0.0492		UJ	0.0050		U	0.0430		J	0.0800		-	0.0766		-		
LEAD	MG/L	0.0105		UJ	0.0020		UJ	0.0030		J	0.0020		U	0.0054		-		
MAGNESIUM	MG/L	62.1000		J	63.9000		-	62.5000		-	63.0000		-	70.6000		-		
MANGANESE	MG/L	0.0880		J	0.1140		-	0.2580		-	0.0960		-					
MERCURY	MG/L	0.0003		R	0.0002		UJ	0.0002		U	0.0003		-					

001010

5704

SAMPLE NUMBER:		003229		003522		003766		003952		066426	
LAB:		IT		IT		IT		IT			
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
INORGANICS											
MOLYBDENUM	MG/L	0.0333	UJ	0.0200	U	0.0200	UJ	0.0400	-		
NICKEL	MG/L	0.0123	UJ	0.1070	-	0.2230	-	0.4900	-	0.5200	-
POTASSIUM	MG/L	2.1000	J	3.0000	-	2.3200	-	2.2000	-		
SELENIUM	MG/L	0.0018	UJ	0.0020	UJ	0.0020	R	0.0050	U		
SILVER	MG/L	0.0043	UJ	0.0100	U	0.0200	U	0.0100	-	0.0130	-
SODIUM	MG/L	17.8000	J	18.8000	-	18.4000	-	20.0000	-		
THALLIUM	MG/L	0.0041	UJ								
VANADIUM	MG/L	0.0034	UJ							0.0248	-
ZINC	MG/L	0.0143	J							0.0229	-
ORGANOPHOSPHORUS											
AZINPHOSMETHYL	UG/L	5.0000	U								
DEMETON	UG/L	1.0000	U								
DIAZINON	UG/L	0.5000	U								
DISULFOTON	UG/L	0.5000	U								
ETHION	UG/L	0.5000	U								
MALATHION	UG/L	1.0000	U								
METHYL PARATHION	UG/L	1.0000	U								
PARATHION	UG/L	0.5000	U								
PESTICIDES											
4,4'-DDD	UG/L	0.1000	U								
4,4'-DDE	UG/L	0.1000	U								
4,4'-DDT	UG/L	0.1000	U								
ALDRIN	UG/L	0.0500	U								
ALPHA-BHC	UG/L	0.0500	U								
ALPHA-CHLORDANE	UG/L	0.5000	U								
AROCLOR-1016	UG/L	0.5000	U								
AROCLOR-1221	UG/L	0.5000	U								
AROCLOR-1232	UG/L	0.5000	U								
AROCLOR-1242	UG/L	0.5000	U								
AROCLOR-1248	UG/L	0.5000	U								
AROCLOR-1254	UG/L	1.0000	U								
AROCLOR-1260	UG/L	1.0000	U								
BETA-BHC	UG/L	0.0500	U								
DELTA-BHC	UG/L	0.0500	U								
DIELDRIN	UG/L	0.0500	U								
ENDOSULFAN II	UG/L	0.1000	U								
ENDOSULFAN SULFATE	UG/L	0.1000	U								
ENDOSULFAN-I	UG/L	0.0500	U								
ENDRIN	UG/L	0.0500	U								
ENDRIN KETONE	UG/L	0.1000	U								
GAMMA-BHC (LINDANE)	UG/L	0.0500	U								

SAMPLE NUMBER:	003229				003522			003766			003952			066426		
LAB:	IT															
SUFFIX/FILTERFLAG:	NONE-UNF				-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U												
HEPTACHLOR EPOXIDE	UG/L	0.0500		U												
METHOXYCHLOR	UG/L	0.5000		U												
TOXAPHENE	UG/L	1.0000		U												
RADIONUCLIDES																
URANIUM-238	PCI/L	1.4000	.3	J	3.0000	.6	J	5.6000	1	J	2.3000	.5	R	1.2000	.3	-
URANIUM, TOTAL	UG/L	4.0000	1	R	7.0000	1	-	7.0000	1	-	7.0000	1	J	3.0000	1	-
URANIUM-234	PCI/L	1.7000	.3	J	3.2000	.6	J	3.6000	.7	J	2.2000	.4	R	1.6000	.4	-
THORIUM-230	PCI/L	1.0000		UJ	1.0000		UJ	1.6000	.8	J	1.0000		UJ	1.0000		U
RADIUM-226	PCI/L	1.0000		U	1.0000		UJ	1.0000		U	1.0000		U			
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		R	1.0000		U
THORIUM-232	PCI/L	1.0000		UJ	1.0000		UJ	1.0000	.7	J	1.0000		UJ			
THORIUM, TOTAL	UG/L				8.0000	4	J	9.0000	6	J	7.0000		UJ			
RADIUM-228	PCI/L	3.0000		UJ	3.0000		U	3.0000		U	3.0000		R			
THORIUM-228	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000		UJ			
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		UJ			
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		UJ			
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U	5.0000		U			
TECHNETIUM-99	PCI/L	30.0000		UJ	30.0000		U	30.0000		U	31.6000		UJ	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R	150.0000		R			
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R	20.0000		R			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		UJ												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												

SAMPLE NUMBER:		003229		003522			003766			003952			066426		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ												
3-NITROANILINE	UG/L	50.0000		U												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		U												
4-NITROPHENOL	UG/L	50.0000		UJ												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		UJ												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		UJ												
BENZYL ALCOHOL	UG/L	10.0000		UJ												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		UJ												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U												
CHRYSENE	UG/L	10.0000		U												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		UJ												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												
DIMETHYL PHTHALATE	UG/L	10.0000		U												
FLUORANTHENE	UG/L	10.0000		U												
FLUORENE	UG/L	10.0000		U												
HEXACHLOROBENZENE	UG/L	10.0000		UJ												
HEXACHLOROBUTADIENE	UG/L	10.0000		U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U												
HEXACHLOROETHANE	UG/L	10.0000		U												
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		UJ												
ISOPHORONE	UG/L	10.0000		U												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U												
N-NITROSODIPHENYLAMINE	UG/L	50.0000		U												
NAPHTHALENE	UG/L	10.0000		U												
NITROBENZENE	UG/L	10.0000		U												
P-CHLOROANILINE	UG/L	10.0000		U												
PENTACHLOROPHENOL	UG/L	50.0000		UJ												

SAMPLE NUMBER:		003229		003522			003766			003952			066426		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PHENANTHRENE	UG/L	10.0000	U												
PHENOL	MG/L	10.0000	U												
PYRENE	UG/L	10.0000	U												
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L	5.0000	U												
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U												
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U												
1,1-DICHLOROETHANE	UG/L	5.0000	U										5.0000		U
1,1-DICHLOROETHENE	UG/L	5.0000	U												
1,2-DICHLOROETHANE	UG/L	5.0000	UJ												
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000	U												
1,2-DICHLOROPROPANE	UG/L	5.0000	U												
2-BUTANONE	UG/L	10.0000	R												
2-HEXANONE	UG/L	10.0000	U												
4-METHYL-2-PENTANONE	UG/L	10.0000	U												
ACETONE	UG/L	10.0000	U										10.0000		U
BENZENE	UG/L	5.0000	UJ												
BROMODICHLOROMETHANE	UG/L	5.0000	U												
BROMOFORM	UG/L	5.0000	U												
BROMOMETHANE	UG/L	10.0000	U												
CARBON DISULFIDE	UG/L	2.0000	J												
CARBON TETRACHLORIDE	UG/L	5.0000	U												
CHLOROBENZENE	UG/L	5.0000	UJ												
CHLOROETHANE	UG/L	10.0000	U												
CHLOROFORM	UG/L	5.0000	U												
CHLOROMETHANE	UG/L	10.0000	U												
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U												
DIBROMOCHLOROMETHANE	UG/L	5.0000	U												
ETHYLBENZENE	UG/L	5.0000	UJ												
METHYLENE CHLORIDE	UG/L	5.0000	U										9.0000		U
STYRENE	UG/L	5.0000	UJ												
TETRACHLOROETHENE	UG/L	5.0000	U										5.0000		U
TOLUENE	UG/L	5.0000	UJ										5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U												
TRICHLOROETHENE	UG/L	5.0000	U										5.0000		U
VINYL ACETATE	UG/L	10.0000	UJ												
VINYL CHLORIDE	UG/L	10.0000	U												
XYLENES, TOTAL	UG/L	5.0000	UJ												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		066558			066597			066670			066671			EMGW_SYSGEN_170		
TASK:		9.25			9.25			9.27			9.27			GWMON		
LAB:		IT			IT			IT			WMCO			NET		
WELL OR BORING NUMBER:		1074			1074			1074			1074			1074		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		08-SEP-89			08-SEP-89			21-NOV-89			21-NOV-89			19-FEB-90		
NORTH COORDINATE:		481187.08			481187.08			481187.08			481187.08			481187.08		
EAST COORDINATE:		1378638.85			1378638.85			1378638.85			1378638.85			1378638.85		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L				1000.0000		UJ									
2,3,7,8-TETRACHLORODIBENZO-P-D	NG/L				0.6900		U									
HEXACHLORODIBENZO-P-DIOXINS	NG/L				0.6700		U									
HEXACHLORODIBENZOFURANS	NG/L				0.2700		U									
PENTACHLORODIBENZO-P-DIOXINS	NG/L				0.0720		U									
PENTACHLORODIBENZOFURANS	NG/L				0.0880		U									
TETRACHLORODIBENZO-P-DIOXINS	NG/L				0.1900		U									
TETRACHLORODIBENZOFURANS	NG/L				0.3800		U									
GENERAL CHEMISTRY																
CHLORIDE	MG/L	160.0000		-							128.0000		NV	146.0000		NV
FLUORIDE	MG/L	1.3000		-							0.9900		NV	1.0400		NV
NITRATE	MG/L	0.1000		UR							0.2600		NV			
NITRATE, AS NITROGEN	MG/L													0.1000		NV
PHENOLS	MG/L										0.0050		UNV	0.0120		NV
SULFATE	MG/L	83.1000		-							71.0000		NV	29.0000		NV
SULFIDE	MG/L	0.5000		UJ	0.5000		UJ									
TOTAL ORGANIC CARBON	MG/L	1.8100		-							1.0000		UNV	1.0000		UNV
TOTAL ORGANIC HALIDES	MG/L	0.0140		J							0.0100		UNV			
TOTAL ORGANIC HALOGENS	MG/L													0.0100		UNV
HERBICIDES																
2,4,5-T	UG/L				5.0000		UJ									
2,4,5-TP (SILVEX)	UG/L				0.0250		UJ									
2,4-D	UG/L				0.0500		UJ									
INORGANICS																

ALUMINUM	MG/L				0.1900		-				3.5500		NV	0.0500			UNV
SAMPLE NUMBER:		066558			066597			066670			066671			EMGW_SYSGEN_170			
LAB:					IT						WMCO			NET			
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			NONE-UNF			NONE-FIL			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																	
ANTIMONY	MG/L				0.0300		U										
ARSENIC	MG/L				0.0020		U				0.0025		UNV	0.0025			UNV
BARIUM	MG/L				0.0840		J				0.2640		NV	0.2000			UNV
BERYLLIUM	MG/L				0.0012		U				0.0100		UNV	0.0100			UNV
CADMIUM	MG/L				0.0086		-										
CALCIUM	MG/L				126.0000		-				289.0000		NV	143.0000			NV
CHROMIUM	MG/L				0.0345		-				0.3430		NV	0.0050			UNV
COBALT	MG/L				0.0100		U				0.0250		UNV	0.0250			UNV
COPPER	MG/L				0.0100		U				0.0250		UNV	0.0250			UNV
CYANIDE	MG/L				0.0050		U										
IRON	MG/L				0.1180		-				0.0500		UNV	0.0500			UNV
LEAD	MG/L				0.0021		J				0.0080		NV	0.0050			UNV
MAGNESIUM	MG/L				65.2000		-				59.2000		NV	65.8000			NV
MANGANESE	MG/L				0.0600		-				0.3170		NV	0.0960			NV
MERCURY	MG/L				0.0002		U										
NICKEL	MG/L				0.2820		-				0.3680		NV	0.7190			NV
OSMIUM	MG/L				0.0590		UR										
POTASSIUM	MG/L				2.3400		-										
SELENIUM	MG/L				0.0020		UJ										
SILVER	MG/L				0.0123		-				0.0010		UNV	0.0010			UNV
SODIUM	MG/L				18.0000		-				15.2000		NV	31.0000			NV
THALLIUM	MG/L				0.0010		U										
TIN	MG/L				0.0300		UR										
VANADIUM	MG/L				0.0232		-				0.0500		UNV	0.0500			UNV
ZINC	MG/L				0.1270		J				0.0230		NV	0.0200			UNV
MISC																	
1,2,3-TRICHLOROPROPANE	UG/L				5.0000		U										
1,2,4,5-TETRACHLOROBENZENE	UG/L				10.0000		U										
1,2-DIBROMO-3-CHLOROPROPANE	UG/L				10.0000		U										
1,2-DIBROMOETHANE	UG/L				5.0000		U										
1,3,5-TRINITROBENZENE	UG/L				10.0000		U										
1,3-DINITROBENZENE	UG/L				10.0000		U										
1,4-NAPHTHOQUINONE	UG/L				10.0000		U										
1-NAPHTHYLAMINE	UG/L				120.0000		UJ										
2,3,4,6-TETRACHLOROPHENOL	UG/L				10.0000		U										
2,6-DICHLOROPHENOL	UG/L				10.0000		U										
2-ACETYLAMINOFLUORENE	UG/L				10.0000		U										
2-CHLORO-1,3-BUTADIENE	UG/L				5.0000		U										
2-NAPHTHYLAMINE	UG/L				170.0000		U										
2-PICOLINE	UG/L				70.0000		U										
3,3'-DIMETHYLBENZIDINE	UG/L				80.0000		U										
3-CHLOROPROPENE	UG/L				5.0000		UR										

SAMPLE NUMBER:	066558	066597	066670	066671	EMGW_SYSGEN_170
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
3-METHYLCHOLANTHRENE	UG/L				30.0000		U									
3-METHYLPHENOL	UG/L				10.0000		U									
4-AMINOBIPHENYL	UG/L				50.0000		UJ									
4-NITROQUINOLINE-1-OXIDE	UG/L				10.0000		UJ									
5-NITRO-O-TOLUIDINE	UG/L				20.0000		U									
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L				20.0000		U									
A,A-DIMETHYLPHENETHYLAMINE	UG/L				10.0000		UJ									
ACETONITRILE	UG/L				200.0000		UJ									
ACETOPHENONE	UG/L				10.0000		U									
ACROLEIN	UG/L				10.0000		U									
ACROLEIN	UG/L				10.0000		U									
ACRYLONITRILE	UG/L				10.0000		UJ									
ANILINE	UG/L				10.0000		U									
ARAMITE	UG/L				10.0000		U									
DIALLATE	UG/L				10.0000		U									
DIBROMOMETHANE	UG/L				10.0000		U									
DICHLORODIFLUOROMETHANE	UG/L				200.0000		UR									
DINOSEB	UG/L				20.0000		U									
DIPHENYLAMINE	UG/L				10.0000		U									
ETHYL CYANIDE	UG/L				100.0000		UJ									
ETHYL METHACRYLATE	UG/L				10.0000		U									
ETHYL METHANESULFONATE	UG/L				10.0000		U									
HEXACHLOROPHENE	UG/L				500.0000		UR									
HEXACHLOROPROPENE	UG/L				20.0000		U									
IODOMETHANE	UG/L				5.0000		U									
ISODRIN	UG/L				0.0500		U									
ISOSAFROLE	UG/L				10.0000		U									
KEPONE	UG/L				0.1000		U									
METHACRYLONITRILE	UG/L				10.0000		UR									
METHAPYRILENE	UG/L				40.0000		U									
METHYL METHACRYLATE	UG/L				10.0000		UJ									
METHYL METHANESULFONATE	UG/L				10.0000		U									
N-NITROSODI-N-BUTYLAMINE	UG/L				20.0000		U									
N-NITROSODIETHYLAMINE	UG/L				10.0000		U									
N-NITROSOMETHYLETHYLAMINE	UG/L				10.0000		U									
N-NITROSOMORPHOLINE	UG/L				10.0000		U									
N-NITROSOPIPERIDINE	UG/L				10.0000		U									
N-NITROSOPYRROLIDINE	UG/L				10.0000		U									
O-TOLUIDINE	UG/L				10.0000		UJ									
P-DIMETHYLAMINOAZOBENZENE	UG/L				30.0000		U									
P-PHENYLENEDIAMINE	UG/L				50.0000		UJ									
PENTACHLOROBENZENE	UG/L				20.0000		U									
PENTACHLOROETHANE	UG/L				20.0000		U									
PENTACHLORONITROBENZENE	UG/L				20.0000		U									
PHENACETIN	UG/L				10.0000		U									

SAMPLE NUMBER:	066558			066597		066670			066671			EMGW_SYSGEN_170		
LAB:				IT										
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC														
PRONAMIDE UG/L				30.0000	U									
SAFROLE UG/L				10.0000	U									
TRANS-1,2-DICHLOROETHENE UG/L				5.0000	U									
TRANS-1,4-DICHLORO-2-BUTENE UG/L				20.0000	UJ									
ORGANOPHOSPHORUS														
DIMETHOATE UG/L				1.0000	UJ									
DISULFOTON UG/L				1.0000	UJ									
FAMPHUR UG/L				1.0000	UJ									
METHYL PARATHION UG/L				0.0500	UJ									
PARATHION UG/L				0.0500	UJ									
PHORATE UG/L				1.0000	UJ									
THIONAZIN UG/L				1.0000	UJ									
PESTICIDES														
4,4'-DDD UG/L				0.1000	U									
4,4'-DDE UG/L				0.1000	U									
4,4'-DDT UG/L				0.1000	U									
ALDRIN UG/L				0.0500	U									
ALPHA-BHC UG/L				0.0500	U									
ALPHA-CHLORDANE UG/L				0.5000	U									
AROCLOR-1016 UG/L				0.5000	U									
AROCLOR-1221 UG/L				0.5000	U									
AROCLOR-1232 UG/L				0.5000	U									
AROCLOR-1242 UG/L				0.5000	U									
AROCLOR-1248 UG/L				0.5000	U									
AROCLOR-1254 UG/L				1.0000	U									
AROCLOR-1260 UG/L				1.0000	U									
BETA-BHC UG/L				0.0500	U									
DELTA-BHC UG/L				0.0500	U									
DIELDRIN UG/L				0.1000	U									
ENDOSULFAN II UG/L				0.1000	U									
ENDOSULFAN SULFATE UG/L				0.1000	U									
ENDOSULFAN-I UG/L				0.0500	U									
ENDRIN UG/L				0.1000	U									
ENDRIN KETONE UG/L				0.1000	U									
GAMMA-BHC (LINDANE) UG/L				0.0500	U									
GAMMA-CHLORDANE UG/L				0.5000	U									
HEPTACHLOR UG/L				0.0500	U									
HEPTACHLOR EPOXIDE UG/L				0.0500	U									
METHOXYCHLOR UG/L				0.5000	U									
SULFOTEP UG/L				1.0000	UJ									
TOXAPHENE UG/L				1.0000	U									

C01018

5704

SAMPLE NUMBER:		066558			066597		066670			066671			EMGW_SYSGEN_170		
LAB:					IT										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		U				1.3000	.3	R				1.5000		NV
URANIUM, TOTAL	UG/L	4.0000	1	-				2.9000	.4	R				4.5000		NV
URANIUM-234	PCI/L	2.3000	.5	-				1.8700	.38	R				1.6000		NV
THORIUM-230	PCI/L	1.0000		U				1.2700	.56	R						
URANIUM-235/236	PCI/L	1.0000		U				1.0000		R						
THORIUM-228	PCI/L	1.0000		U				1.0000		R						
TECHNETIUM-99	PCI/L	30.0000		U				30.0000		R				15.0000		UNV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				50.0000		U									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		U									
3-NITROANILINE	UG/L				50.0000		UJ									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				50.0000		U									
4-NITROPHENOL	UG/L				50.0000		U									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZYL ALCOHOL	UG/L				10.0000		U									

SAMPLE NUMBER:		066558			066597			066670			066671			EMGW_SYSGEN_170		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIMETHYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				2.0000		J									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		UJ									
PENTACHLOROPHENOL	UG/L				50.0000		U									
PHENANTHRENE	UG/L				10.0000		U									
PHENOL	MG/L				10.0000		U									
PYRENE	UG/L				10.0000		U									
PYRIDINE	UG/L				50000.0000		UJ									
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L				5.0000		U									
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U									
1,1-DICHLOROETHANE	UG/L				5.0000		U				2.5000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L				5.0000		U									
1,2-DICHLOROETHANE	UG/L				5.0000		U				2.5000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U									
1,2-DICHLOROPROPANE	UG/L				5.0000		U									
2-BUTANONE	UG/L				10.0000		U									

001020

5704

SAMPLE NUMBER:		066558			066597			066670			066671			EMGW_SYSGEN_170		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-HEXANONE	UG/L				10.0000		U									
4-METHYL-2-PENTANONE	UG/L				10.0000		U									
ACETONE	UG/L				10.0000		UJ				2.5000		UNV	2.0000		UNV
BENZENE	UG/L				5.0000		UJ									
BROMODICHLOROMETHANE	UG/L				5.0000		U									
BROMOFORM	UG/L				5.0000		U									
BROMOMETHANE	UG/L				10.0000		UJ									
CARBON DISULFIDE	UG/L				5.0000		U									
CARBON TETRACHLORIDE	UG/L				5.0000		U									
CHLOROBENZENE	UG/L				5.0000		UJ									
CHLOROETHANE	UG/L				10.0000		UJ									
CHLOROFORM	UG/L				5.0000		U									
CHLOROMETHANE	UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
DIBROMOCHLOROMETHANE	UG/L				5.0000		U									
ETHYLBENZENE	UG/L				5.0000		UJ									
ISOBUTYL ALCOHOL	UG/L				3000.0000		UJ									
METHYLENE CHLORIDE	UG/L				5.0000		U				2.5000		UNV	1.0000		UNV
STYRENE	UG/L				5.0000		UJ									
TETRACHLOROETHENE	UG/L				5.0000		U				2.5000		UNV	1.0000		UNV
TOLUENE	UG/L				5.0000		UJ				2.5000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
TRICHLOROETHENE	UG/L				5.0000		U				2.5000		UNV	1.0000		UNV
TRICHLOROFLUOROMETHANE	UG/L				5.0000		U									
VINYL ACETATE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				5.0000		UJ									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_171	EMGW_SYSGEN_172	EMGW_SYSGEN_173	EMGW_SYSGEN_174	EMGW_SYSGEN_176
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	1074	1074	1074	1074	1074
DEPTH:	-	-	-	-	-
DATE COLLECTED:	09-MAY-90	21-AUG-90	16-NOV-90	06-FEB-91	16-JUL-91
NORTH COORDINATE:	481187.08	481187.08	481187.08	481187.08	481187.08
EAST COORDINATE:	1378638.85	1378638.85	1378638.85	1378638.85	1378638.85
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							360.0000		NV	338.0000		NV	348.0000		NV
AMMONIA	MG/L							0.0500		NV	0.0900		NV	0.0200		UNV
CHLORIDE	MG/L	154.0000		NV	143.0000		NV	133.0000		NV	135.0000		NV	142.0000		NV
FLUORIDE	MG/L	1.0000		NV	1.0000		NV	0.8600		NV	1.3400		NV	1.2900		NV
NITRATE, AS NITROGEN	MG/L	0.0200		UNV	0.0200		UNV				0.0200		UNV	0.0200		UNV
NITRATE/NITRITE	MG/L							0.0400		NV						
PH	STD							7.2100		NV	7.4500		NV	7.3300		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0080		NV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L							0.4600		NV	0.3900		NV	0.1000		UNV
SPECIFIC CONDUCTIVITY	UMHOS/CM							900.0000		NV	1100.0000		NV	1160.0000		NV
SULFATE	MG/L	75.0000		NV	83.0000		NV	78.0000		NV	123.0000		NV	99.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L							650.0000		NV	676.0000		NV	670.0000		NV
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	3.0000		NV	5.0000		NV	10.0000		NV	6.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0190		NV	0.0370		NV
INORGANICS																
ALUMINUM	MG/L	1.5600		NV	0.5300		NV	0.5000		UNV	3.1400		NV	4.5300		NV
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0200		UNV
ARSENIC	MG/L	0.0040		NV	0.0025		UNV	0.0025		UNV	0.0025		UNV	0.0050		UNV
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.2120		NV	0.2000		UNV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0500		UNV
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L	117.0000		NV	145.0000		NV	62.7000		NV	116.0000		NV	119.0000		NV
CHROMIUM	MG/L	1.1500		NV	0.1260		NV	0.0050		UNV	0.2750		NV	0.0020		UNV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0091		NV
COPPER	MG/L	0.0290		NV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0200		UNV
CYANIDE	MG/L	0.0050		UNV				0.0050		UNV	0.0050		UNV	0.0050		UNV
IRON	MG/L	3.1000		NV	0.6630		NV	14.5000		NV	10.6000		NV	0.1000		UNV
LEAD	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV

001022

5204

SAMPLE NUMBER:		EMGW_SYSGEN_171		EMGW_SYSGEN_172		EMGW_SYSGEN_173		EMGW_SYSGEN_174		EMGW_SYSGEN_176	
LAB:		NET		NET		NET		NET		NET	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-FIL		NONE-UNF		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MAGNESIUM	MG/L	52.0000	NV	66.4000	NV	1.1000	NV	40.0000	NV	65.0000	NV
MANGANESE	MG/L	0.0840	NV	0.0870	NV	0.0700	NV	0.2350	NV	0.0580	NV
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV
MOLYBDENUM	MG/L	0.1450	NV	0.0860	NV	0.0460	NV	0.0870	NV	0.0950	NV
NICKEL	MG/L	0.4710	NV	0.6800	NV	0.4000	NV	0.7750	NV	0.8680	NV
POTASSIUM	MG/L	2.5700	NV	2.7800	NV	3.6400	NV	2.8400	NV	2.6000	NV
SELENIUM	MG/L	0.0025	UNV	0.0025	UNV	0.0025	UNV	0.0025	UNV	0.0050	UNV
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV
SODIUM	MG/L	21.2000	NV	20.0000	NV	8.9000	NV	19.9000	NV	21.0000	NV
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0500	UNV
ZINC	MG/L	0.0200	UNV	0.0200	UNV	0.0510	NV	0.0200	UNV	0.0480	NV
MISC											
3-METHYLPHENOL	UG/L	4.0000	UNV								
DIPHENYLAMINE	UG/L	15.0000	UNV								
TRANS-1,2-DICHLOROETHENE	UG/L					1.0000	UNV	1.0000	UNV	1.0000	UNV
PESTICIDES											
4,4'-DDD	UG/L	0.2000	UNV								
4,4'-DDE	UG/L	0.2000	UNV								
4,4'-DDT	UG/L	0.2000	UNV								
ALDRIN	UG/L	0.2000	UNV								
ALPHA-BHC	UG/L	0.2000	UNV								
AROCLOR-1016	UG/L	0.2000	UNV								
AROCLOR-1221	UG/L	0.2000	UNV								
AROCLOR-1232	UG/L	0.2000	UNV								
AROCLOR-1242	UG/L	0.2000	UNV								
AROCLOR-1248	UG/L	0.2000	UNV								
AROCLOR-1254	UG/L	0.2000	UNV								
AROCLOR-1260	UG/L	0.2000	UNV								
BETA-BHC	UG/L	0.2000	UNV								
CHLORDANE	UG/L	0.2000	UNV								
DELTA-BHC	UG/L	0.2000	UNV								
DIELDRIN	UG/L	0.2000	UNV								
ENDOSULFAN II	UG/L	0.2000	UNV								
ENDOSULFAN SULFATE	UG/L	0.2000	UNV								
ENDOSULFAN-I	UG/L	0.2000	UNV								
ENDRIN	UG/L	0.0800	UNV								
ENDRIN ALDEHYDE	UG/L	0.2000	UNV								
GAMMA-BHC (LINDANE)	UG/L	0.2000	UNV								
HEPTACHLOR	UG/L	0.2000	UNV								
HEPTACHLOR EPOXIDE	UG/L	0.2000	UNV								

SAMPLE NUMBER:		EMGW_SYSGEN_171		EMGW_SYSGEN_172		EMGW_SYSGEN_173		EMGW_SYSGEN_174		EMGW_SYSGEN_176	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
PESTICIDES											
TOXAPHENE	UG/L	0.5000	UNV								
RADIONUCLIDES											
URANIUM-238	PCI/L	1.4100	NV	1.5100	NV	1.2200	NV	1.0100	NV		
URANIUM, TOTAL	UG/L	2.7100	NV	3.0900	NV	3.7000	NV	3.7800	NV	2.5000	NV
URANIUM-234	PCI/L	1.5000	NV	1.4300	NV	1.6600	NV	1.6500	NV		
THORIUM-230	PCI/L	0.3300	UNV	0.3870	NV	0.8000	UNV	0.3500	UNV		
RADIUM-226	PCI/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
URANIUM-235/236	PCI/L	0.2400	UNV	0.2500	UNV	0.2100	UNV	0.2000	UNV		
THORIUM-232	PCI/L	0.3300	UNV	0.3500	UNV	0.8000	UNV	0.3500	UNV		
THORIUM, TOTAL	UG/L	3.0000	UNV	3.1000	UNV	7.2000	UNV	3.2000	UNV		
RADIUM-228	PCI/L	33.0000	UNV	3.0000	UNV	3.0000	UNV	3.0000	UNV		
THORIUM-228	PCI/L	0.3300	UNV	0.3500	UNV	1.2500	NV	0.6530	NV		
NEPTUNIUM-237	PCI/L	0.5000	UNV			0.5000	UNV	0.5000	UNV		
PLUTONIUM-239/240	PCI/L	0.5000	UNV			0.5000	UNV	0.5000	UNV		
PLUTONIUM-238	PCI/L	0.5000	UNV			0.5000	UNV	0.5000	UNV		
STRONTIUM-90	PCI/L	1.0000	UNV								
TECHNETIUM-99	PCI/L	27.0000	UNV			19.0000	UNV	15.0000	UNV		
RUTHENIUM-106	PCI/L	150.0000	UNV			150.0000	UNV	150.0000	UNV		
CESIUM-137	PCI/L	12.0000	UNV			6.2000	UNV	5.6000	UNV		
GROSS ALPHA	PCI/L	0.0150	UNV	17.0000	UNV	25.0000	UNV	20.0000	UNV		
GROSS BETA	PCI/L	0.0250	UNV	8.7200	NV	478.0000	NV	18.3000	NV		
SEMIVOLATILES											
1,2,4-TRICHLOROBENZENE	UG/L	4.0000	UNV								
1,3-DICHLOROBENZENE	UG/L	4.0000	UNV								
1,4-DICHLOROBENZENE	UG/L	4.0000	UNV								
2,4,5-TRICHLOROPHENOL	UG/L	4.0000	UNV								
2,4,6-TRICHLOROPHENOL	UG/L	4.0000	UNV								
2,4-DICHLOROPHENOL	UG/L	4.0000	UNV								
2,4-DIMETHYLPHENOL	UG/L	4.0000	UNV								
2,4-DINITROPHENOL	UG/L	4.0000	UNV								
2,4-DINITROTOLUENE	UG/L	15.0000	UNV								
2,6-DINITROTOLUENE	UG/L	15.0000	UNV								
2-CHLOROETHYLVINYL ETHER	UG/L					10.0000	UNV	10.0000	UNV	10.0000	UNV
2-CHLORONAPHTHALENE	UG/L	4.0000	UNV								
2-CHLOROPHENOL	UG/L	4.0000	UNV								
2-METHYLPHENOL	UG/L	4.0000	UNV								
2-NITROANILINE	UG/L	15.0000	UNV								
2-NITROPHENOL	UG/L	4.0000	UNV								
3,3'-DICHLOROBENZIDINE	UG/L	15.0000	UNV								
3-NITROANILINE	UG/L	15.0000	UNV								
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000	UNV								

001024

5704

SAMPLE NUMBER:		EMGW_SYSGEN_171		EMGW_SYSGEN_172		EMGW_SYSGEN_173		EMGW_SYSGEN_174		EMGW_SYSGEN_176	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000	UNV								
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000	UNV								
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000	UNV								
4-NITROANILINE	UG/L	15.0000	UNV								
4-NITROPHENOL	UG/L	4.0000	UNV								
ACENAPHTHYLENE	UG/L	4.0000	UNV								
ANTHRACENE	UG/L	4.0000	UNV								
BENZO(A)ANTHRACENE	UG/L	4.0000	UNV								
BENZO(A)PYRENE	UG/L	4.0000	UNV								
BENZO(B)FLUORANTHENE	UG/L	4.0000	UNV								
BENZO(G,H,I)PERYLENE	UG/L	4.0000	UNV								
BENZO(K)FLUORANTHENE	UG/L	4.0000	UNV								
BENZOIC ACID	UG/L	4.0000	UNV								
BENZYL ALCOHOL	UG/L	40.0000	UNV								
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000	UNV								
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000	UNV								
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	15.0000	UNV								
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4.0000	UNV								
BUTYL BENZYL PHTHALATE	UG/L	4.0000	UNV								
CHRYSENE	UG/L	4.0000	UNV								
DI-N-BUTYL PHTHALATE	UG/L	4.0000	UNV								
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000	UNV								
DIBENZOFURAN	UG/L	4.0000	UNV								
DIETHYL PHTHALATE	UG/L	4.0000	UNV								
DIMETHYL PHTHALATE	UG/L	4.0000	UNV								
FLUORANTHENE	UG/L	4.0000	UNV								
FLUORENE	UG/L	4.0000	UNV								
HEXACHLOROBENZENE	UG/L	4.0000	UNV								
HEXACHLOROBUTADIENE	UG/L	4.0000	UNV								
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000	UNV								
HEXACHLOROETHANE	UG/L	4.0000	UNV								
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000	UNV								
ISOPHORONE	UG/L	4.0000	UNV								
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000	UNV								
N-NITROSODIPHENYLAMINE	UG/L	4.0000	UNV								
NAPHTHALENE	UG/L	4.0000	UNV								
NITROBENZENE	UG/L	4.0000	UNV								
P-CHLOROANILINE	UG/L	4.0000	UNV								
PENTACHLOROPHENOL	UG/L	4.0000	UNV								
PHENANTHRENE	UG/L	4.0000	UNV								
PHENOL	MG/L	4.0000	UNV								
PYRENE	UG/L	4.0000	UNV								
PYRIDINE	UG/L	4.0000	UNV								

VOLATILES																	
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000			UNV	1.0000			UNV	1.0000			UNV	1.0000			UNV

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 351

SAMPLE NUMBER:	EMGW_SYSGEN_171	EMGW_SYSGEN_172	EMGW_SYSGEN_173	EMGW_SYSGEN_174	EMGW_SYSGEN_176
LAB:	NET	NET	NET	NET	NET
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV				1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

001026

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_177	GW930120-8	GW930413-8	003253	003568
TASK:	GWMON	RCRA	50.03.23	3.2.4	3.2.4
LAB:	NET	NET	DATACHEM	IT	IT
WELL OR BORING NUMBER:	1074	1074	1074	1075	1075
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-OCT-91	20-JAN-93	13-APR-93	01-JUN-88	24-AUG-88
NORTH COORDINATE:	481187.08	481187.08	481187.08	481637.42	481637.42
EAST COORDINATE:	1378638.85	1378638.85	1378638.85	1378535.9	1378535.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	336.0000		NV	321.0000		NV	350.0000		-						
ALLYL CHLORIDE	UG/L				5.0000		UNV									
AMMONIA	MG/L	0.0200		UNV	0.0300		NV	0.0500		U	141.0000		J	140.0000		J
BICARBONATE ALKALINITY	MG/L				409.0000		NV	440.0000		-						
CARBONATE ALKALINITY	MG/L				3.0000		UNV	3.0000		U						
CHLORIDE	MG/L	139.0000		NV	153.0000		NV	180.0000		-	6180.0000		-	5850.0000		-
FLUORIDE	MG/L	1.1200		NV	1.2200		NV	1.2000		-	1.0000		-	2.8000		J
NITRATE	MG/L				0.0200		UNV	0.0500		U	2.4600		J	15.3000		J
NITRATE, AS NITROGEN	MG/L	0.0200		UNV												
NITRITE, AS NITROGEN	MG/L				0.0200		UNV									
PH	STD	7.0700		NV	7.2600		NV	7.5000		-						
PHENOLS	MG/L	0.0050		UNV	0.0100		UNV	0.0100		U	0.0600		J	0.0100		J
PHOSPHORUS	MG/L	0.2600		NV	0.1000		UNV	0.1300		-	0.3800		-	0.7250		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	1170.0000		NV	1100.0000		NV	1300.0000		-						
SULFATE	MG/L	85.0000		NV	108.0000		NV	48.0000		-	820.0000		-	697.0000		J
TOTAL DISSOLVED SOLIDS	MG/L	572.0000		NV	641.0000		NV	660.0000		-						
TOTAL KJELDAHL NITROGEN	MG/L							0.1000		U	143.0000		J			
TOTAL ORGANIC CARBON	MG/L	20.0000		NV	1.0000		NV	1.0000		UJ						
TOTAL ORGANIC HALIDES	MG/L				0.0100		UNV	0.0100		J				0.8200		J
TOTAL ORGANIC HALOGENS	MG/L	0.0390		NV												
TOTAL ORGANIC NITROGEN	MG/L										2.0000		J			
TOTAL SOLIDS	MG/L				777.0000		NV	720.0000		-						
INORGANICS																
ALUMINUM	MG/L	0.6200		NV	0.2000		UNV	0.0961		-	0.0114		U			
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0450		U	0.0467		U			
ARSENIC	MG/L	0.0050		UNV	0.0050		UNV	0.0010		U	0.0019		U	0.0020		U
BARIUM	MG/L	0.2000		UNV	0.0200		NV	0.0659		-	0.3280		-	0.2920		-
BERYLLIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0010		U	0.0024		U			

001027

SAMPLE NUMBER:	EMGW_SYSGEN_177			GW930120-8		GW930413-8			003253			003568		
LAB:	NET			NET		DATACHEM			IT					
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL		NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0030		UJ	0.0007		U	0.0020		U
CALCIUM	MG/L	120.0000		NV	124.0000		NV	134.0000		-	1520.0000		J	1770.0000		-
CHROMIUM	MG/L	0.0020		UNV	0.0606		NV	0.0399		-	0.0150		-	0.0200		U
COBALT	MG/L	0.0179		NV	0.0050		UNV	0.0087		-	0.0085		J			
COPPER	MG/L	0.0470		NV	0.0430		NV	0.0040		U	0.0067		U	0.0230		-
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0100		U	0.0200		U			
IRON	MG/L	8.4800		NV	0.7300		NV	0.7330		-	10.1000		-	3.7000		-
LEAD	MG/L	0.0030		UNV	0.0030		UNV	0.0010		U	0.0021		UJ	0.0020		UJ
MAGNESIUM	MG/L	71.0000		NV	71.8000		NV	73.7000		-	602.0000		-	698.0000		-
MANGANESE	MG/L	0.0840		NV	0.0280		NV	0.0156		-	32.9000		-	38.0000		-
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		U	0.0004		-	0.0002		U
MOLYBDENUM	MG/L	0.0480		NV	0.1330		NV				0.0333		U	0.0360		-
NICKEL	MG/L	1.5700		NV	1.0800		NV	0.3980		-	0.0123		U	0.0620		-
POTASSIUM	MG/L	2.7000		NV	2.7000		NV	2.1400		J	75.3000		J	85.5000		-
SELENIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0020		UJ	0.0018		UJ	0.0020		UJ
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0030		U	0.0043		U	0.0100		U
SODIUM	MG/L	19.0000		NV	20.0000		NV	19.4000		-	977.0000		-	1020.0000		-
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0010		U	0.0410		UJ			
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.0040		U	0.0034		U			
ZINC	MG/L	0.0540		NV	0.0200		UNV	0.0069		-	0.0579		-			
MISC																
1,2,3-TRICHLOROPROPANE	UG/L				5.0000		UNV									
1,2-DIBROMO-3-CHLOROPROPANE	UG/L				2.0000		UNV									
1,2-DIBROMOETHANE	UG/L				2.0000		UNV									
2-CHLORO-1,3-BUTADIENE	UG/L				5.0000		UNV									
ACROLEIN	UG/L				50.0000		UNV									
ACROLEIN	UG/L				50.0000		UNV									
ACRYLONITRILE	UG/L				50.0000		UNV									
DICHLORODIFLUOROMETHANE	UG/L				10.0000		UNV									
ETHYL CYANIDE	UG/L				20.0000		UNV									
ETHYL METHACRYLATE	UG/L				5.0000		UNV									
IODOMETHANE	UG/L				5.0000		UNV									
METHACRYLONITRILE	UG/L				5.0000		UNV									
METHYL METHACRYLATE	UG/L				5.0000		UNV									
PENTACHLOROETHANE	UG/L				5.0000		UNV									
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
TRANS-1,4-DICHLORO-2-BUTENE	UG/L				20.0000		UNV									
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L										5.0000		UJ			
DEMETON	UG/L										1.0000		UJ			
DIAZINON	UG/L										0.5000		UJ			

001028

5704

SAMPLE NUMBER:		EMGW_SYSGEN_177			GW930120-8			GW930413-8			003253			003568		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DISULFOTON	UG/L										0.5000		UJ			
ETHION	UG/L										0.5000		UJ			
MALATHION	UG/L										1.0000		UJ			
METHYL PARATHION	UG/L										1.0000		UJ			
PARATHION	UG/L										0.5000		UJ			
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U			
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		U			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		U			
ALPHA-CHLORDANE	UG/L										0.5000		U			
AROCLOR-1016	UG/L										0.5000		U			
AROCLOR-1221	UG/L										0.5000		U			
AROCLOR-1232	UG/L										0.5000		U			
AROCLOR-1242	UG/L										0.5000		U			
AROCLOR-1248	UG/L										0.5000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.0500		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.0500		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.5000		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										1.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L							0.9000	.3	J	178.0000	23	-	243.0000	39	-
URANIUM, TOTAL	UG/L	2.6000		NV	0.7000		NV	12.4000	.9	J	528.0000	88	J	500.0000	100	-
URANIUM-234	PCI/L							1.4000	.3	J	132.0000	17	-	210.0000	34	-
THORIUM-230	PCI/L				0.2000	.1	UNV	0.2000	.2	UJ	2.6000	.8	-	1.0000		U
RADIUM-226	PCI/L				1.0000	.3	UNV	1.0000	.2	UJ	1.1000	.3	-	1.1000	.4	J
URANIUM-235/236	PCI/L							0.2000	.3	UJ	8.4000	1.6	-	14.1000	3.1	-
THORIUM-232	PCI/L				0.2000	.1	UNV	0.4000	.1	UJ	2.3000	.7	-	1.0000		U

SAMPLE NUMBER:		EMGW_SYSGEN_177			GW930120-8			GW930413-8			003253			003568		
LAB:					CORE			CORE			IT			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM, TOTAL	UG/L				0.9000		NV	1.8240	.1	NV	20.9761	.7	NV	4.0000		U
RADIUM-228	PCI/L				3.0000	.8	UNV	3.0000	1.4	U	4.6000	1	J	3.0000		U
THORIUM-228	PCI/L				0.2000	.1	UNV	0.2000	.1	UJ	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L										1.0000		U	1.0000		U
PLUTONIUM-239/240	PCI/L										1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L										1.0000		U	1.0000		U
STRONTIUM-90	PCI/L										5.0000		U	5.0000		UJ
TECHNETIUM-99	PCI/L							15.0000	6.9	UJ	30.0000		U	39.7000	9	-
RUTHENIUM-106	PCI/L										150.0000		R	150.0000		R
CESIUM-137	PCI/L										20.0000		R	20.0000		R
GROSS ALPHA	PCI/L				2.0000	2.5	NV	5.4000	3	UNV						
GROSS BETA	PCI/L				0.4000	2.5	UNV	8.1000	3.3	NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										50.0000		U			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV									
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										50.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		U			
3-NITROANILINE	UG/L										50.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		UJ			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										50.0000		U			
4-NITROPHENOL	UG/L										50.0000		U			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			

001030

5204

SAMPLE NUMBER:		EMGW_SYSGEN_177			GW930120-8			GW930413-8			003253			003568		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		UJ			
BENZO(K)FLUORANTHENE	UG/L										10.0000		U			
BENZOIC ACID	UG/L										50.0000		U			
BENZYL ALCOHOL	UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		UJ			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
CUMENE	UG/L				1.0000		UNV									
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		U			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		UJ			
HEXACHLOROBUTADIENE	UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		U			
HEXACHLOROETHANE	UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L										10.0000		U			
ISOPHORONE	UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										50.0000		U			
NAPHTHALENE	UG/L										10.0000		U			
NITROBENZENE	UG/L										10.0000		U			
P-CHLOROANILINE	UG/L										10.0000		U			
PENTACHLOROPHENOL	UG/L										50.0000		UJ			
PHENANTHRENE	UG/L										10.0000		U			
PHENOL	MG/L										10.0000		U			
PYRENE	UG/L										10.0000		U			
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L				1.0000		UNV									
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			

SAMPLE NUMBER:		EMGW_SYSGEN_177			GW930120-8			GW930413-8			003253			003568		
LAB:		NET			NET			DATACHEM			IT					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV				10.0000		U	5.0000		U			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
2-BUTANONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		R			
2-HEXANONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		U			
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		U			
ACETONE	UG/L	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		U			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
BROMOMETHANE	UG/L	1.0000		UNV	5.0000		UNV	10.0000		U	10.0000		U			
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
CHLOROETHANE	UG/L	1.0000		UNV	10.0000		UNV	10.0000		U	10.0000		U			
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
CHLOROMETHANE	UG/L	1.0000		UNV	10.0000		UNV	10.0000		UJ	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
METHYLENE CHLORIDE	UG/L	1.0000		UNV	10.0000		UNV	10.0000		U	5.0000		U			
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			
TRICHLOROFLUOROMETHANE	UG/L				1.0000		UNV									
VINYL ACETATE	UG/L	2.0000		UNV	10.0000		UNV				10.0000		UJ			
VINYL CHLORIDE	UG/L	1.0000		UNV	5.0000		UNV	10.0000		U	10.0000		U			
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U			

001032

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003774			003953			EMGW_SYSGEN_181			003226			003523		
TASK:	3.2.4			3.2.4			GWMON			3.2.4			3.2.4		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1075			1075			1075			1076			1076		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	04-DEC-88			12-MAR-89			22-MAR-90			23-MAY-88			22-AUG-88		
NORTH COORDINATE:	481637.42			481637.42			481637.42			481425.85			481425.85		
EAST COORDINATE:	1378535.9			1378535.9			1378535.9			1378748.89			1378748.89		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS															
2,3,7,8-TETRACHLORODIBENZO-P-D NG/L										5.9000		U			
2,3,7,8-TETRACHLORODIBENZOFURAN G/L										3.1000		U			
HEPTACHLORODIBENZO-P-DIOXINS NG/L										0.7600		U			
HEPTACHLORODIBENZOFURANS NG/L										1.1000		U			
HEXACHLORODIBENZO-P-DIOXINS NG/L										2.1000		U			
HEXACHLORODIBENZOFURANS NG/L										1.6000		U			
OCTACHLORODIBENZO-P-DIOXIN NG/L										3.4000		U			
OCTACHLORODIBENZOFURAN NG/L										1.8000		U			
PENTACHLORODIBENZO-P-DIOXINS NG/L										3.1000		U			
PENTACHLORODIBENZOFURANS NG/L										1.4000		U			
TETRACHLORODIBENZO-P-DIOXINS NG/L										0.2500		U			
TETRACHLORODIBENZOFURANS NG/L										0.5600		U			
GENERAL CHEMISTRY															
AMMONIA MG/L	253.0000		-	220.0000		-				0.5000		UJ	0.1000		J
CHLORIDE MG/L	5910.0000		R	6300.0000		-				9.1000		J	2.5000		-
FLUORIDE MG/L	3.0000		-	2.4000		-				0.2200		J	1.1000		J
NITRATE MG/L	103.0000		-	160.0000		-				0.0800		J	0.2200		J
PHENOLS MG/L	0.0100		U	0.0050		-				0.0500		UJ	0.0200		-
PHOSPHORUS MG/L	0.3580		-	0.0200		-							0.8850		J
SULFATE MG/L	671.0000		-	720.0000		-				132.0000		J	2.0000		U
TOTAL KJELDAHL NITROGEN MG/L	185.0000		-	260.0000		-				0.5000		UJ			
TOTAL ORGANIC HALIDES MG/L	0.0900		-	0.1600		-							0.0500		U
TOTAL ORGANIC NITROGEN MG/L				40.0000		-				0.5000		UJ	0.2000		J
INORGANICS															
ALUMINUM MG/L										0.0144		J			
ANTIMONY MG/L										0.0467		UJ			

001033

SAMPLE NUMBER:		003774		003953		EMGW_SYSGEN_181			003226			003523		
LAB:									IT					
SUFFIX/FILTERFLAG:		-		-		-			NONE-FIL			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS														
ARSENIC	MG/L	0.0040	R	0.0030	-				0.0021		J	0.0020		U
BARIUM	MG/L	0.2820	-	0.2500	-				0.0594		J	0.0580		-
BERYLLIUM	MG/L								0.0024		UJ			
CADMIUM	MG/L	0.0030	-	0.0500	-				0.0007		UJ	0.0020		U
CALCIUM	MG/L	1630.0000	-	1800.0000	-				12.9000		J	123.0000		-
CHROMIUM	MG/L	0.0200	U	0.3000	-				0.0017		UJ	0.0200		U
COBALT	MG/L								0.0052		UJ			
COPPER	MG/L	0.0140	-	0.0600	-				0.0067		UJ	0.0120		-
CYANIDE	MG/L								0.0200		UJ			
IRON	MG/L	1.6600	J	1.3000	-				0.0297		UJ	0.0050		U
LEAD	MG/L	0.0020	UJ	0.0020	U				0.0021		UJ	0.0020		UJ
MAGNESIUM	MG/L	645.0000	-	690.0000	-				71.3000		J	72.9000		-
MANGANESE	MG/L	35.8000	-	35.0000	J				0.1470		J	0.3540		-
MERCURY	MG/L	0.0002	U	0.0002	U				0.0003		R	0.0002		UJ
MOLYBDENUM	MG/L	0.0520	J	0.2000	-				0.0333		UJ	0.0200		U
NICKEL	MG/L	0.2000	-	0.6000	-				0.0123		UJ	0.0380		-
POTASSIUM	MG/L	111.0000	-	100.0000	J				2.1300		J	2.9000		-
SELENIUM	MG/L	0.0020	R	0.0150	U				0.0018		UJ	0.0020		UJ
SILVER	MG/L	0.0200	U	0.0500	U				0.0043		UJ	0.0100		U
SODIUM	MG/L	1080.0000	-	1300.0000	J				20.8000		J	25.5000		-
THALLIUM	MG/L								0.0041		UJ			
VANADIUM	MG/L								0.0043		J			
ZINC	MG/L								0.0528		J			
ORGANOPHOSPHORUS														
AZINPHOSMETHYL	UG/L								5.0000		U			
DEMETON	UG/L								1.0000		U			
DIAZINON	UG/L								0.5000		U			
DISULFOTON	UG/L								0.5000		U			
ETHION	UG/L								0.5000		U			
MALATHION	UG/L								1.0000		U			
METHYL PARATHION	UG/L								1.0000		U			
PARATHION	UG/L								0.5000		U			
PESTICIDES														
4,4'-DDD	UG/L								0.1000		U			
4,4'-DDE	UG/L								0.1000		U			
4,4'-DDT	UG/L								0.1000		U			
ALDRIN	UG/L								0.0500		U			
ALPHA-BHC	UG/L								0.0500		U			
ALPHA-CHLORDANE	UG/L								0.5000		U			
AROCLOR-1016	UG/L								0.5000		U			
AROCLOR-1221	UG/L								0.5000		U			

SAMPLE NUMBER:		003774			003953			EMGW_SYSGEN_181			003226			003523		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
AROCLOR-1232	UG/L										0.5000		U			
AROCLOR-1242	UG/L										0.5000		U			
AROCLOR-1248	UG/L										0.5000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.0500		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.0500		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.5000		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										1.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	467.00003		J	272.0000	30.2	J	304.0000		NV	4.9000	.8	J	10.9000	1.4	J
URANIUM, TOTAL	UG/L	1340.00805		-	757.0000	140	-	910.0000		NV	16.0000	3	R	33.0000	5	-
URANIUM-234	PCI/L	467.00003		J	258.0000	28.8	J	289.0000		NV	3.7000	.7	J	8.0000	1.1	J
THORIUM-230	PCI/L	1.0000		UJ	1.6000	.7	J				2.3000	.6	J	3.1000	.9	J
RADIUM-226	PCI/L	1.4000	.3	-	1.3000	.3	-				1.0000		U	1.0000		UJ
URANIUM-235/236	PCI/L	22.70004.4		J	10.4000	1.4	J	13.9000		NV	1.0000		UJ	1.0000		UJ
THORIUM-232	PCI/L	1.0000		UJ	1.0000		UJ				1.0000		UJ	1.0000		UJ
THORIUM, TOTAL	UG/L	2.0000		UJ	7.0000		UJ							5.0000		UJ
RADIUM-228	PCI/L	3.0000		U	3.0000		R				3.0000		UJ	3.0000		U
THORIUM-228	PCI/L	1.0000		UJ	1.0000	.6	J				1.1000	.4	J	1.1000	.5	J
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		UJ				1.0000		UJ	1.0000		UJ
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		UJ				1.0000		UJ	1.0000		U
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		UJ				1.0000		UJ	1.0000		U
STRONTIUM-90	PCI/L	7.1000		R	5.0000		U				5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L	88.400017.8		-	106.0000	24	J				30.0000		UJ	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R				150.0000		R	150.0000		R
CESIUM-137	PCI/L	20.0000		R	20.0000		R				20.0000		R	20.0000		R
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			

SAMPLE NUMBER:	003774	003953	EMGW_SYSGEN_181	003226	003523
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		R			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		R			
2,4-DICHLOROPHENOL	UG/L										10.0000		R			
2,4-DIMETHYLPHENOL	UG/L										10.0000		R			
2,4-DINITROPHENOL	UG/L										50.0000		R			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		R			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		R			
2-NITROANILINE	UG/L										50.0000		U			
2-NITROPHENOL	UG/L										10.0000		R			
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		U			
3-NITROANILINE	UG/L										50.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		R			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		UJ			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		R			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		R			
4-NITROANILINE	UG/L										50.0000		U			
4-NITROPHENOL	UG/L										50.0000		R			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U			
BENZO(K)FLUORANTHENE	UG/L										10.0000		U			
BENZOIC ACID	UG/L										50.0000		R			
BENZYL ALCOHOL	UG/L										10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		UJ			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		U			
DIMETHYL PHTHALATE	UG/L										10.0000		U			

SAMPLE NUMBER:	003774			003953			EMGW_SYSGEN_181			003226			003523		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
FLUORANTHENE UG/L										10.0000		U			
FLUORENE UG/L										10.0000		U			
HEXACHLOROBENZENE UG/L										10.0000		UJ			
HEXACHLOROBUTADIENE UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		U			
HEXACHLOROETHANE UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE UG/L										50.0000		U			
NAPHTHALENE UG/L										10.0000		U			
NITROBENZENE UG/L										10.0000		U			
P-CHLOROANILINE UG/L										10.0000		U			
PENTACHLOROPHENOL UG/L										50.0000		R			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		R			
PYRENE UG/L										10.0000		U			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										5.0000		U			
1,1,2,2-TETRACHLOROETHANE UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE UG/L										5.0000		U			
1,1-DICHLOROETHANE UG/L										5.0000		U			
1,1-DICHLOROETHENE UG/L										5.0000		U			
1,2-DICHLOROETHANE UG/L										5.0000		UJ			
1,2-DICHLOROETHENE (TOTAL) UG/L										5.0000		U			
1,2-DICHLOROPROPANE UG/L										5.0000		U			
2-BUTANONE UG/L										10.0000		R			
2-HEXANONE UG/L										10.0000		U			
4-METHYL-2-PENTANONE UG/L										10.0000		U			
ACETONE UG/L										10.0000		U			
BENZENE UG/L										5.0000		UJ			
BROMODICHLOROMETHANE UG/L										5.0000		U			
BROMOFORM UG/L										5.0000		U			
BROMOMETHANE UG/L										10.0000		U			
CARBON DISULFIDE UG/L										5.0000		UJ			
CARBON TETRACHLORIDE UG/L										5.0000		U			
CHLOROBENZENE UG/L										5.0000		UJ			
CHLOROETHANE UG/L										10.0000		U			
CHLOROFORM UG/L										5.0000		U			
CHLOROMETHANE UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE UG/L										5.0000		U			
DIBROMOCHLOROMETHANE UG/L										5.0000		U			
ETHYLBENZENE UG/L										5.0000		UJ			

001037

SAMPLE NUMBER:	003774			003953			EMGW_SYSGEN_181			003226			003523		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
METHYLENE CHLORIDE UG/L										5.0000		U			
STYRENE UG/L										5.0000		UJ			
TETRACHLOROETHENE UG/L										5.0000		U			
TOLUENE UG/L										5.0000		UJ			
TRANS-1,3-DICHLOROPROPENE UG/L										5.0000		U			
TRICHLOROETHENE UG/L										5.0000		U			
VINYL ACETATE UG/L										10.0000		UJ			
VINYL CHLORIDE UG/L										10.0000		U			
XYLENES, TOTAL UG/L										5.0000		UJ			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	003767	003954	EMGW_SYSGEN_182	003178	003524
TASK:	3.2.4	3.2.4	GWMON	3.2.4	3.2.4
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1076	1076	1076	1077	1077
DEPTH:	-	-	-	-	-
DATE COLLECTED:	20-NOV-88	12-MAR-89	21-MAR-90	11-MAY-88	22-AUG-88
NORTH COORDINATE:	481425.85	481425.85	481425.85	481407.65	481407.65
EAST COORDINATE:	1378748.89	1378748.89	1378748.89	1378815.68	1378815.68
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	1.2800		J	0.4000		U				0.1000		UJ	0.1000		J
CHLORIDE	MG/L	33.0000		-	13.0000		U				10.7000		-	3.0000		-
FLUORIDE	MG/L	0.8000		-	0.7000		-				1.1000		J	0.8600		J
NITRATE	MG/L	0.1000		U	0.0700		-				0.1000		J	0.2700		J
PHENOLS	MG/L	0.0100		U	0.0050		U				0.0200		J	0.0200		-
PHOSPHORUS	MG/L	0.1470		-	0.0900		-				0.3550		J	0.7900		J
SULFATE	MG/L	139.0000		-	100.0000		-				57.0000		J	138.0000		J
TOTAL KJELDAHL NITROGEN	MG/L	1.7100		J	0.7000		-									
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U							0.0500		U
TOTAL ORGANIC NITROGEN	MG/L	0.4300		J	0.3000		-				0.1000		J	0.5000		J
INORGANICS																
ARSENIC	MG/L	0.0020		UJ	0.0030		U				0.2000		U	0.0020		U
BARIUM	MG/L	0.0650		-	0.0590		-				0.0920		-	0.0980		-
CADMIUM	MG/L	0.0020		U	0.0050		-				0.0059		-	0.0020		U
CALCIUM	MG/L	125.0000		-	126.0000		-				73.9000		-	106.0000		-
CHROMIUM	MG/L	0.0200		U	0.0300		-				0.0200		U	0.0200		U
COPPER	MG/L	0.0100		U	0.0200		-				0.0160		-	0.0100		U
IRON	MG/L	0.0380		J	0.0500		-				0.2500		-	0.0180		-
LEAD	MG/L	0.0060		-	0.0020		U				0.0500		U	0.0020		UJ
MAGNESIUM	MG/L	65.4000		-	67.0000		-				46.2000		-	51.9000		-
MANGANESE	MG/L	0.4550		-	0.3100		-				0.0480		-	0.2650		-
MERCURY	MG/L	0.0002		U	0.0004		-				0.0002		UJ	0.0002		UJ
MOLYBDENUM	MG/L	0.0230		-	0.0300		-				0.0200		U	0.0200		U
NICKEL	MG/L	0.0220		-	0.0300		U				0.0200		U	0.0200		U
POTASSIUM	MG/L	3.1100		-	2.3000		-				2.2200		-	2.3000		-
SELENIUM	MG/L	0.0020		J	0.0050		U				0.2000		U	0.0020		UJ
SILVER	MG/L	0.0005		U	0.0100		U				0.2000		U	0.0100		U
SODIUM	MG/L	89.1000		-	41.0000		-				11.3000		-	13.1000		-

001039

SAMPLE NUMBER:		003767			003954			EMGW_SYSGEN_182			003178			003524		
LAB:		IT			IT						IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	54.0000	8.7	-	12.8000	1.7	J	23.1000		NV	9.5000	1.3	-	18.6000	2.6	J
URANIUM, TOTAL	UG/L	144.0000	84	-	35.0000	6	-	68.8000		NV	30.0000	5	J	86.0000	12	-
URANIUM-234	PCI/L	12.4000	2.5	-	4.6000	.8	J	12.1000		NV	8.7000	1.2	-	14.7000	2.1	J
THORIUM-230	PCI/L	1.0000		U	1.0000		R				1.9000	.5	-	10.3000	1.6	J
RADIUM-226	PCI/L	1.0000		U	1.0000		U				1.0000	.3	U	1.0000		UJ
URANIUM-235/236	PCI/L	2.0000	.9	-	1.0000		UJ	0.6270		NV	1.0000		U	1.0000		UJ
THORIUM-232	PCI/L	1.0000		U	1.0000		R				1.0000		U	1.0000		UJ
THORIUM, TOTAL	UG/L	5.0000		U	9.0000		R							3.0000		UJ
RADIUM-228	PCI/L	3.0000		UJ	3.0000		R				3.0000		U	3.0000		U
THORIUM-228	PCI/L	1.0000		U	1.0000		R				1.1000	.4	-	1.0000		UJ
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		UJ				1.0000		U	1.0000		UJ
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		UJ				1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		UJ				1.0000		U	1.0000		U
STRONTIUM-90	PCI/L	5.0000		U	5.3000	1.2	J				5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		UJ				30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R				150.0000		R	150.0000		R
CESIUM-137	PCI/L	20.0000		R	20.0000		R				20.0000		R	20.0000		R

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003768			003955			123362			EMGW_SYSGEN_184			003227		
TASK:		3.2.4			3.2.4			10.03.08			GWMON			3.2.4		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1077			1077			1077			1077			1078		
DEPTH:		-			-			0-10			-			-		
DATE COLLECTED:		20-NOV-88			12-MAR-89			15-JUL-93			21-MAR-90			23-MAY-88		
NORTH COORDINATE:		481407.65			481407.65			481407.65			481407.65			481888.89		
EAST COORDINATE:		1378815.68			1378815.68			1378815.68			1378815.68			1378704.35		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1000		UJ	0.4000		U							0.5000		UJ
CHLORIDE	MG/L	6.0000		-	8.2000		U							237.0000		J
FLUORIDE	MG/L	0.6400		-	0.5000		-							1.9500		J
NITRATE	MG/L	0.1000		U	0.0200		U							1.6700		J
PHENOLS	MG/L	0.0100		U	0.0190		-							0.0600		J
PHOSPHORUS	MG/L	0.3020		-	0.0100		U									
SULFATE	MG/L	103.0000		-	97.0000		-							157.0000		J
TOTAL KJELDAHL NITROGEN	MG/L	0.4000		J	0.7000		-							0.5000		UJ
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U									
TOTAL ORGANIC NITROGEN	MG/L	0.4000		J	0.3000		-							0.5000		UJ
INORGANICS																
ALUMINUM	MG/L													0.0701		J
ANTIMONY	MG/L													0.0467		UJ
ARSENIC	MG/L	0.0020		UJ	0.0030		U							0.0073		J
BARIUM	MG/L	0.0990		-	0.0970		-							0.1440		J
BERYLLIUM	MG/L													0.0024		UJ
CADMIUM	MG/L	0.0020		U	0.0050		U							0.0007		UJ
CALCIUM	MG/L	101.0000		-	110.0000		-							298.0000		J
CHROMIUM	MG/L	0.0200		U	0.0300		-							0.0017		UJ
COBALT	MG/L													0.0052		UJ
COPPER	MG/L	0.0100		U	0.0200		-							0.0067		UJ
CYANIDE	MG/L													0.0200		UJ
IRON	MG/L	0.3990		-	0.1900		-							0.0854		UJ
LEAD	MG/L	0.0020		UJ	0.0020		U							0.0105		UJ
MAGNESIUM	MG/L	48.4000		-	51.0000		-							108.0000		J
MANGANESE	MG/L	0.2830		-	0.2600		-							0.1060		J
MERCURY	MG/L	0.0002		U	0.0002		U							0.0003		R
MOLYBDENUM	MG/L	0.0330		-	0.0200		-	0.0200		U				0.0333		UJ

001041

SAMPLE NUMBER:	003768			003955			123362			EMGW_SYSGEN_184			003227		
LAB:	IT			IT			IT						IT		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-UNF			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L	0.0200		U	0.0300		U							0.0123		UJ
POTASSIUM	MG/L	1.5400		-	1.7000		-							2.7200		J
SELENIUM	MG/L	0.0020		UJ	0.0050		U							0.0018		UJ
SILVER	MG/L	0.0005		U	0.0100		U							0.0043		UJ
SODIUM	MG/L	32.5000		-	14.0000		-							27.0000		J
THALLIUM	MG/L													0.0041		UJ
VANADIUM	MG/L													0.0034		UJ
ZINC	MG/L													0.0250		J
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L													5.0000		U
DEMETON	UG/L													1.0000		U
DIAZINON	UG/L													0.5000		U
DISULFOTON	UG/L													0.5000		U
ETHION	UG/L													0.5000		U
MALATHION	UG/L													1.0000		U
METHYL PARATHION	UG/L													1.0000		U
PARATHION	UG/L													0.5000		U
PESTICIDES																
4,4'-DDD	UG/L													0.1000		U
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.0500		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.0500		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U

SAMPLE NUMBER:		003768			003955			123362			EMGW_SYSGEN_184			003227		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	7.1000	1.4	J	2.7000	.5	J				3.2000		NV	83.0000	12	J
URANIUM, TOTAL	UG/L	19.00003		UJ	8.0000	2	-				9.5700		NV	245.0000	41	R
URANIUM-234	PCI/L	4.9000	1.1	J	2.5000	.5	J				2.8900		NV	21.6000	3.4	J
THORIUM-230	PCI/L	0.4000		UJ	1.0000		UJ							1.3000	.8	J
RADIUM-226	PCI/L	1.0000		UJ	1.0000		U							1.0000		U
URANIUM-235/236	PCI/L	0.5000		UJ	1.0000		UJ				0.2000		UNV	2.4000	.8	J
THORIUM-232	PCI/L	0.4000		UJ	1.0000		UJ							1.0000		UJ
THORIUM, TOTAL	UG/L	4.0000		UJ	5.0000		UJ									
RADIUM-228	PCI/L	3.0000		UJ	3.0000		R							3.0000		UJ
THORIUM-228	PCI/L	0.4000		UJ	1.0000		UJ							1.9000	1	J
NEPTUNIUM-237	PCI/L	0.5000		UJ	1.0000		UJ	0.5000	.159	UJ				1.0000		UJ
PLUTONIUM-239/240	PCI/L	0.5000		UJ	1.0000		UJ	0.5000	.0411	UJ				1.0000		UJ
PLUTONIUM-238	PCI/L	0.5000		UJ	1.0000		UJ	0.5000	.077	UJ				1.0000		UJ
STRONTIUM-90	PCI/L	1.5000		UJ	5.0000		U	1.0000	.395	UJ				5.0000		U
TECHNETIUM-99	PCI/L	23.0000		UJ	30.0000		UJ							30.0000		UJ
RUTHENIUM-106	PCI/L	110.0000		R	150.0000		R	150.0000		UJ				150.0000		R
CESIUM-137	PCI/L	12.0000		R	20.0000		R	13.0000		UJ				20.0000		R
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		UJ				10.0000		U
1,2-DICHLOROBENZENE	UG/L							10.0000		UJ				10.0000		U
1,3-DICHLOROBENZENE	UG/L							10.0000		UJ				10.0000		U
1,4-DICHLOROBENZENE	UG/L							10.0000		UJ				10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		UJ				50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		UJ				10.0000		U
2,4-DICHLOROPHENOL	UG/L							10.0000		UJ				10.0000		U
2,4-DIMETHYLPHENOL	UG/L							10.0000		UJ				10.0000		U
2,4-DINITROPHENOL	UG/L							25.0000		UJ				50.0000		UJ
2,4-DINITROTOLUENE	UG/L							10.0000		UJ				10.0000		U
2,6-DINITROTOLUENE	UG/L							10.0000		UJ				10.0000		U
2-CHLORONAPHTHALENE	UG/L							10.0000		UJ				10.0000		U
2-CHLOROPHENOL	UG/L							10.0000		UJ				10.0000		U
2-METHYLNAPHTHALENE	UG/L							10.0000		UJ				10.0000		U
2-METHYLPHENOL	UG/L							10.0000		UJ				10.0000		U
2-NITROANILINE	UG/L							25.0000		UJ				50.0000		U
2-NITROPHENOL	UG/L							10.0000		UJ				10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		UJ				20.0000		U

001043

SAMPLE NUMBER:	003768	003955	123362	EMGW_SYSGEN_184	003227
LAB:			IT		IT
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L							25.0000		UJ				50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UJ				50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		UJ				10.0000		UJ
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		UJ				10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		UJ				10.0000		U
4-METHYLPHENOL	UG/L							10.0000		UJ				10.0000		U
4-NITROANILINE	UG/L							25.0000		UJ				50.0000		U
4-NITROPHENOL	UG/L							25.0000		UJ				50.0000		UJ
ACENAPHTHENE	UG/L							10.0000		UJ				10.0000		U
ACENAPHTHYLENE	UG/L							10.0000		UJ				10.0000		U
ANTHRACENE	UG/L							10.0000		UJ				10.0000		U
BENZO(A)ANTHRACENE	UG/L							10.0000		UJ				10.0000		U
BENZO(A)PYRENE	UG/L							10.0000		UJ				10.0000		U
BENZO(B)FLUORANTHENE	UG/L							10.0000		UJ				10.0000		U
BENZO(G,H,I)PERYLENE	UG/L							10.0000		UJ				10.0000		U
BENZO(K)FLUORANTHENE	UG/L							10.0000		UJ				10.0000		U
BENZOIC ACID	UG/L							4.0000		J				50.0000		U
BENZYL ALCOHOL	UG/L							10.0000		UJ				10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		UJ				10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		UJ				10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		UJ				10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		UJ				10.0000		UJ
BUTYL BENZYL PHTHALATE	UG/L							10.0000		UJ				3.0000		J
CARBAZOLE	UG/L							10.0000		UJ						
CHRYSENE	UG/L							10.0000		UJ				10.0000		U
DI-N-BUTYL PHTHALATE	UG/L							10.0000		UJ				10.0000		U
DI-N-OCTYL PHTHALATE	UG/L							10.0000		UJ				10.0000		UJ
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UJ				10.0000		U
DIBENZOFURAN	UG/L							10.0000		UJ				10.0000		U
DIETHYL PHTHALATE	UG/L							10.0000		UJ				10.0000		U
DIMETHYL PHTHALATE	UG/L							10.0000		UJ				10.0000		U
FLUORANTHENE	UG/L							10.0000		UJ				10.0000		U
FLUORENE	UG/L							10.0000		UJ				10.0000		U
HEXACHLOROBENZENE	UG/L							10.0000		UJ				10.0000		UJ
HEXACHLOROBUTADIENE	UG/L							10.0000		UJ				10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		UJ				10.0000		U
HEXACHLOROETHANE	UG/L							10.0000		UJ				10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		UJ				10.0000		U
ISOPHORONE	UG/L							10.0000		UJ				10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		UJ				10.0000		U
N-NITROSODIPHENYLAMINE	UG/L							10.0000		UJ				50.0000		U
NAPHTHALENE	UG/L							10.0000		UJ				10.0000		U
NITROBENZENE	UG/L							10.0000		UJ				10.0000		U
P-CHLOROANILINE	UG/L							10.0000		UJ				10.0000		U
PENTACHLOROPHENOL	UG/L							25.0000		UJ				50.0000		UJ

SAMPLE NUMBER:		003768			003955			123362			EMGW_SYSGEN_184			003227		
LAB:								IT						IT		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENANTHRENE	UG/L							10.0000		UJ				10.0000		U
PHENOL	MG/L							10.0000		UJ				10.0000		U
PYRENE	UG/L							10.0000		UJ				10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													5.0000		U
1,1,2-TRICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHENE	UG/L													5.0000		U
1,2-DICHLOROETHANE	UG/L													5.0000		UJ
1,2-DICHLOROETHENE (TOTAL)	UG/L													5.0000		U
1,2-DICHLOROPROPANE	UG/L													5.0000		U
2-BUTANONE	UG/L													10.0000		R
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													5.0000		UJ
BROMODICHLOROMETHANE	UG/L													5.0000		U
BROMOFORM	UG/L													5.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													5.0000		UJ
CARBON TETRACHLORIDE	UG/L													5.0000		U
CHLOROBENZENE	UG/L													5.0000		UJ
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													5.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		UJ
METHYLENE CHLORIDE	UG/L													16.0000		UJ
STYRENE	UG/L													5.0000		UJ
TETRACHLOROETHENE	UG/L													5.0000		U
TOLUENE	UG/L													5.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
TRICHLOROETHENE	UG/L													5.0000		U
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003561			003737			003932			EMGW_SYSGEN_186			003105	
TASK:		3.2.4			3.2.4			3.2.4			GWMON			3.2.4	
LAB:		IT			IT			IT			IT			IT	
WELL OR BORING NUMBER:		1078			1078			1078			1078			1079	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		11-AUG-88			04-DEC-88			10-MAR-89			22-MAR-90			21-APR-88	
NORTH COORDINATE:		481888.89			481888.89			481888.89			481888.89			482273.7	
EAST COORDINATE:		1378704.35			1378704.35			1378704.35			1378704.35			1378165.47	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1000		UJ	0.1000		U	0.3000		UJ				0.6000		-
CHLORIDE	MG/L	270.0000		J	222.0000		R	270.0000		J				1.8000		J
FLUORIDE	MG/L	0.7800		J	0.6200		-	0.6000		J				0.9900		J
NITRATE	MG/L	13.0000		R	7.3500		-	18.0000		J				0.2200		J
PHENOLS	MG/L	0.0200		J	0.0200		-	0.0100		UJ				0.0100		U
PHOSPHORUS	MG/L	0.1520		J	0.8310		-	0.1900		J				0.0800		J
SULFATE	MG/L	140.0000		J	133.0000		-	170.0000		J				158.0000		-
TOTAL KJELDAHL NITROGEN	MG/L				1.0300		-	0.6000		J						
TOTAL ORGANIC HALIDES	MG/L				0.0500		U	0.0500		UJ						
TOTAL ORGANIC NITROGEN	MG/L	0.2000		J	1.0300		-	0.3000		J				0.1000		U
INORGANICS																
ARSENIC	MG/L	0.3400		-	0.0100		R	0.0080		J				0.2000		UJ
BARIUM	MG/L	0.1430		-	0.1370		-	0.1400		J				0.0410		J
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0070		J				0.0050		UJ
CALCIUM	MG/L	269.3000		-	249.0000		-	310.0000		J				220.0000		-
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0400		J				0.0200		UJ
COPPER	MG/L	0.0100		U	0.0100		U	0.0100		J				0.0100		UJ
IRON	MG/L	0.0170		-	0.0280		J	0.1200		J				0.0340		J
LEAD	MG/L	0.0500		U	0.0050		UJ	0.0020		J				0.0500		UJ
MAGNESIUM	MG/L	105.6000		-	92.8000		-	110.0000		J				54.6000		-
MANGANESE	MG/L	0.2840		-	0.3970		-	0.4800		J				0.1260		J
MERCURY	MG/L	0.0002		UJ	0.0003		J	0.0002		UJ				0.0002		UJ
MOLYBDENUM	MG/L	0.0250		-	0.0200		UJ	0.0300		J				0.0200		UJ
NICKEL	MG/L	0.0200		U	0.0200		U	0.0400		J				0.0210		J
POTASSIUM	MG/L	3.0100		-	3.2200		-	3.0000		J				2.3300		J
SELENIUM	MG/L	0.2000		U	0.0020		R	0.0020		UJ				0.2000		UJ
SILVER	MG/L	0.0100		U	0.0200		U	0.0100		J				0.0100		UJ
SODIUM	MG/L	24.4300		J	30.5000		-	36.0000		J				17.4000		J

SAMPLE NUMBER:		003561			003737			003932			EMGW_SYSGEN_186			003105		
LAB:		IT			IT			IT						IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	19.7000	2.5	-	19.3000	2.5	J	34.2000	4.8	-	168.0000		NV	1.0000		UJ
URANIUM, TOTAL	UG/L	53.0000	8	-	57.0000	10	-	90.0000	16	-	501.0000		NV	2.0000	1	J
URANIUM-234	PCI/L	7.7000	1.1	-	7.0000	1.1	J	10.1000	1.7	-	140.0000		NV	1.0000		UJ
THORIUM-230	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U				1.0000		UJ
RADIUM-226	PCI/L	1.0000		U	1.0000		U	1.0000		U				1.0000		R
URANIUM-235/236	PCI/L	1.0000		U	1.0000		UJ	1.0000		U	7.5300		NV	1.0000		UJ
THORIUM-232	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U				1.0000		UJ
THORIUM, TOTAL	UG/L	6.0000		UJ	6.0000		UJ	4.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		UJ				3.0000		UJ
THORIUM-228	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U				1.0000		UJ
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U				1.0000		UJ
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ	1.0000		U				1.0000		UJ
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		UJ	1.0000		U				1.0000		UJ
STRONTIUM-90	PCI/L	5.0000		R	5.0000		U	5.0000		U				5.0000		U
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U				30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R				150.0000		R
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R				20.0000		R

SAMPLE NUMBER:		003351			003631			003848			066424			066534		
LAB:		IT			IT			IT			IT					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L	1.5800		-	1.8900		-	1.9300		-						
SELENIUM	MG/L	0.2000		U	0.0120		J	0.0020		U						
SILVER	MG/L	0.0100		R	0.0005		U	0.0005		U	0.1690		-			
SODIUM	MG/L	14.2400		-	16.9000		-	20.2000		-						
VANADIUM	MG/L										0.0249		-			
ZINC	MG/L										0.0323		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U	1.1000	.3	-	1.0000		U
URANIUM, TOTAL	UG/L	2.0000	1	-	2.0000	1	-	3.0000	1	-	3.0000	1	-	2.0000	1	-
URANIUM-234	PCI/L	1.3000	.3	J	1.2000	.3	J	1.2000	.4	-	2.2000	.5	-	1.0000		U
THORIUM-230	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U
RADIUM-226	PCI/L	1.0000		U	1.0000		U	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U						
THORIUM, TOTAL	UG/L	4.0000		UJ	5.0000		UJ	4.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		U	3.0000		UJ						
THORIUM-228	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		UJ	30.0000		U	30.0000		U	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
VOLATILES																
1,1-DICHLOROETHANE	UG/L										5.0000		U			
ACETONE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										13.0000		U			
TETRACHLOROETHENE	UG/L										5.0000		U			
TOLUENE	UG/L										5.0000		U			
TRICHLOROETHENE	UG/L										5.0000		U			

SAMPLE NUMBER:		066564		066672			066673			066926			EMGW_SYSGEN_187		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ARSENIC	MG/L	0.0020		U				0.0050		NV				0.0030		NV
BARIUM	MG/L	0.0494		-				0.2160		NV				0.2000		UNV
BERYLLIUM	MG/L	0.0015		-				0.0100		UNV				0.0100		UNV
CADMIUM	MG/L	0.0093		-												
CALCIUM	MG/L	143.0000		-				148.0000		NV				151.0000		NV
CHROMIUM	MG/L	0.0385		-				0.0150		NV				0.0050		UNV
COBALT	MG/L	0.0100		U				0.0250		UNV				0.0250		UNV
COPPER	MG/L	0.0100		U				0.0250		UNV				0.0250		UNV
CYANIDE	MG/L	0.0050		U												
IRON	MG/L	0.0906		-				0.0500		UNV				0.0500		UNV
LEAD	MG/L	0.0084		J				0.0050		UNV				0.0050		UNV
MAGNESIUM	MG/L	64.6000		-				64.0000		NV				66.6000		NV
MANGANESE	MG/L	0.0833		-				0.0620		NV				0.1280		NV
MERCURY	MG/L	0.0002		UR												
NICKEL	MG/L	0.0530		-				0.0180		NV				0.0050		UNV
OSMIUM	MG/L	0.0500		UR												
POTASSIUM	MG/L	1.8000		-												
SELENIUM	MG/L	0.0020		UR												
SILVER	MG/L	0.0147		-				0.0010		UNV				0.0010		UNV
SODIUM	MG/L	18.1000		-				21.7000		NV				47.3000		NV
THALLIUM	MG/L	0.0010		U												
TIN	MG/L	0.0300		UR												
VANADIUM	MG/L	0.0266		-				0.0500		UNV				0.0500		UNV
ZINC	MG/L	0.0243		-				0.0200		UNV				0.0200		UNV
MISC																
1,2,4,5-TETRACHLOROBENZENE	UG/L	10.0000		U												
1,3,5-TRINITROBENZENE	UG/L	10.0000		U												
1,3-DINITROBENZENE	UG/L	10.0000		U												
1,4-NAPHTHOQUINONE	UG/L	20.0000		UR												
1-NAPHTHYLAMINE	UG/L	120.0000		UJ												
2,3,4,6-TETRACHLOROPHENOL	UG/L	20.0000		UR												
2,6-DICHLOROPHENOL	UG/L	10.0000		U												
2-ACETYLAMINOFLUORENE	UG/L	10.0000		U												
2-NAPHTHYLAMINE	UG/L	170.0000		UJ												
2-PICOLINE	UG/L	140.0000		UR												
3,3'-DIMETHYLBENZIDINE	UG/L	160.0000		UR												
3-METHYLCHOLANTHRENE	UG/L	60.0000		UR												
3-METHYLPHENOL	UG/L	10.0000		U												
4-AMINOBIPHENYL	UG/L	50.0000		UJ												
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000		UJ												
5-NITRO-O-TOLUIDINE	UG/L	40.0000		UR												
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000		U												
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000		U												

SAMPLE NUMBER:		066564		066672			066673			066926			EMGW_SYSGEN_187		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
ACETOPHENONE	UG/L	20.0000	UR												
ANILINE	UG/L	20.0000	UR												
ARAMITE	UG/L	20.0000	UR												
DIALLATE	UG/L	20.0000	UR												
DINOSEB	UG/L	20.0000	UR												
DIPHENYLAMINE	UG/L	10.0000	U												
ETHYL METHANESULFONATE	UG/L	10.0000	U												
HEXACHLOROPHENE	UG/L	500.0000	UJ												
HEXACHLOROPROPENE	UG/L	40.0000	UR												
ISODRIN	UG/L	0.2500	U												
ISOSAFROLE	UG/L	10.0000	U												
KEPONE	UG/L	0.5000	U												
METHAPYRILENE	UG/L	80.0000	UR												
METHYL METHANESULFONATE	UG/L	10.0000	U												
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000	U												
N-NITROSODIETHYLAMINE	UG/L	20.0000	UR												
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000	U												
N-NITROSOMORPHOLINE	UG/L	20.0000	UR												
N-NITROSOPIPERIDINE	UG/L	10.0000	U												
N-NITROSOPYRROLIDINE	UG/L	20.0000	UR												
O-TOLUIDINE	UG/L	10.0000	UJ												
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000	U												
P-PHENYLENEDIAMINE	UG/L	100.0000	UR												
PENTACHLOROBENZENE	UG/L	40.0000	UR												
PENTACHLOROETHANE	UG/L	20.0000	U												
PENTACHLORONITROBENZENE	UG/L	40.0000	UR												
PHENACETIN	UG/L	20.0000	UR												
PRONAMIDE	UG/L	60.0000	UR												
SAFROLE	UG/L	10.0000	U												
PESTICIDES															
4,4'-DDD	UG/L	0.5000	U												
4,4'-DDE	UG/L	0.5000	U												
4,4'-DDT	UG/L	0.5000	U												
ALDRIN	UG/L	0.0500	UR												
ALPHA-BHC	UG/L	0.2500	U												
ALPHA-CHLORDANE	UG/L	0.5000	UR												
AROCLOR-1016	UG/L	0.5000	UR												
AROCLOR-1221	UG/L	2.5000	U												
AROCLOR-1232	UG/L	0.5000	UR												
AROCLOR-1242	UG/L	0.5000	UR												
AROCLOR-1248	UG/L	2.5000	U												
AROCLOR-1254	UG/L	5.0000	U												
AROCLOR-1260	UG/L	5.0000	U												

SAMPLE NUMBER:		066564		066672			066673			066926			EMGW_SYSGEN_187		
LAB:		IT													
SUFFIX/FILTERFLAG:		DL-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
BETA-BHC	UG/L	0.2500		U												
DELTA-BHC	UG/L	0.2500		U												
DIELDRIN	UG/L	0.5000		U												
ENDOSULFAN II	UG/L	0.5000		U												
ENDOSULFAN SULFATE	UG/L	0.1000		UR												
ENDOSULFAN-I	UG/L	0.0500		UR												
ENDRIN	UG/L	0.1000		UR												
ENDRIN KETONE	UG/L	0.5000		U												
GAMMA-BHC (LINDANE)	UG/L	0.2500		U												
GAMMA-CHLORDANE	UG/L	2.5000		U												
HEPTACHLOR	UG/L	0.2500		U												
HEPTACHLOR EPOXIDE	UG/L	0.2500		U												
METHOXYCHLOR	UG/L	0.5000		UR												
TOXAPHENE	UG/L	1.0000		UR												
RADIONUCLIDES																
URANIUM-238	PCI/L				1.0900	.27	R							1.0000		NV
URANIUM, TOTAL	UG/L				3.0000	.3	R							3.0000		NV
URANIUM-234	PCI/L				2.2300	.42	R							1.8000		NV
THORIUM-230	PCI/L				1.0000		R							1.0000		UNV
URANIUM-235/236	PCI/L				1.0000		R									
THORIUM-228	PCI/L				1.0000		R							1.0000		UNV
TECHNETIUM-99	PCI/L				44.8000	14	R							17.0000		UNV
URANIUM-235	PCI/L													1.0000		UNV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		UJ							10.0000		U			
1,2-DICHLOROBENZENE	UG/L	10.0000		U							10.0000		U			
1,3-DICHLOROBENZENE	UG/L	20.0000		UR							10.0000		U			
1,4-DICHLOROBENZENE	UG/L	20.0000		UR							10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L	100.0000		UR							50.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U							10.0000		U			
2,4-DICHLOROPHENOL	UG/L	10.0000		U							10.0000		U			
2,4-DIMETHYLPHENOL	UG/L	20.0000		UR							10.0000		U			
2,4-DINITROPHENOL	UG/L	50.0000		U							50.0000		UJ			
2,4-DINITROTOLUENE	UG/L	20.0000		UR							10.0000		UJ			
2,6-DINITROTOLUENE	UG/L	40.0000		UR							10.0000		U			
2-CHLORONAPHTHALENE	UG/L	20.0000		UR							10.0000		U			
2-CHLOROPHENOL	UG/L	10.0000		U							10.0000		U			
2-METHYLNAPHTHALENE	UG/L	10.0000		U							10.0000		U			
2-METHYLPHENOL	UG/L	20.0000		UR							10.0000		U			
2-NITROANILINE	UG/L	100.0000		UR							50.0000		U			
2-NITROPHENOL	UG/L	10.0000		U							10.0000		U			

SAMPLE NUMBER:		066564		066672			066673			066926			EMGW_SYSGEN_187		
LAB:		IT								IT					
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U							20.0000		UJ			
3-NITROANILINE	UG/L	100.0000		UR							50.0000		UJ			
4,6-DINITRO-2-METHYLPHENOL	UG/L	100.0000		UR							50.0000		UJ			
4-BROMOPHENYL PHENYL ETHER	UG/L	20.0000		UR							10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U							10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L	20.0000		UR							10.0000		U			
4-METHYLPHENOL	UG/L	20.0000		UR							10.0000		U			
4-NITROANILINE	UG/L	50.0000		U							50.0000		U			
4-NITROPHENOL	UG/L	100.0000		UR							50.0000		UJ			
ACENAPHTHENE	UG/L	20.0000		UR							10.0000		U			
ACENAPHTHYLENE	UG/L	10.0000		U							10.0000		U			
ANTHRACENE	UG/L	20.0000		UR							10.0000		U			
BENZO(A)ANTHRACENE	UG/L	10.0000		U							10.0000		U			
BENZO(A)PYRENE	UG/L	10.0000		U							10.0000		U			
BENZO(B)FLUORANTHENE	UG/L	20.0000		UR							10.0000		UJ			
BENZO(G,H,I)PERYLENE	UG/L	20.0000		UR							10.0000		U			
BENZO(K)FLUORANTHENE	UG/L	20.0000		UR							10.0000		U			
BENZOIC ACID	UG/L										50.0000		UJ			
BENZYL ALCOHOL	UG/L	20.0000		UR							10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U							10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L	20.0000		UR							10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U							10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	20.0000		UR							10.0000		U			
BUTYL BENZYL PHTHALATE	UG/L	20.0000		UR							10.0000		UJ			
CHRYSENE	UG/L	20.0000		UR							10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L	20.0000		UR							10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U							10.0000		U			
DIBENZO(A,H)ANTHRACENE	UG/L	20.0000		UR							10.0000		UJ			
DIBENZOFURAN	UG/L	20.0000		UR							10.0000		U			
DIETHYL PHTHALATE	UG/L	4.0000		J							10.0000		U			
DIMETHYL PHTHALATE	UG/L	10.0000		U							10.0000		U			
FLUORANTHENE	UG/L	20.0000		UR							10.0000		U			
FLUORENE	UG/L	10.0000		U							10.0000		U			
HEXACHLOROBENZENE	UG/L	20.0000		UR							10.0000		U			
HEXACHLOROBUTADIENE	UG/L	20.0000		UR							10.0000		U			
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U							10.0000		UJ			
HEXACHLOROETHANE	UG/L	20.0000		UR							10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U							10.0000		U			
ISOPHORONE	UG/L	20.0000		UR							10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L	20.0000		UR							10.0000		UJ			
N-NITROSODIMETHYLAMINE	UG/L	10.0000		U												
N-NITROSODIPHENYLAMINE	UG/L	6.0000		R							10.0000		U			
NAPHTHALENE	UG/L	10.0000		U							10.0000		U			
NITROBENZENE	UG/L	20.0000		UR							10.0000		U			
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	10.0000		U												

SAMPLE NUMBER:		066564			066672			066673			066926			EMGW_SYSGEN_187		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
P-CHLOROANILINE	UG/L	20.0000		UR							10.0000		U			
PENTACHLOROPHENOL	UG/L	50.0000		U							50.0000		U			
PHENANTHRENE	UG/L	10.0000		U							10.0000		U			
PHENOL	MG/L	20.0000		UR							10.0000		U			
PYRENE	UG/L	10.0000		U							10.0000		UJ			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										5.0000		UJ			
1,1,2,2-TETRACHLOROETHANE	UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHANE	UG/L							2.5000		UNV	5.0000		U	1.0000		UNV
1,1-DICHLOROETHENE	UG/L										5.0000		U			
1,2-DICHLOROETHANE	UG/L							2.5000		UNV	5.0000		UJ	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U			
1,2-DICHLOROPROPANE	UG/L										5.0000		U			
2-BUTANONE	UG/L										10.0000		UJ			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L							2.5000		UNV	10.0000		U	2.0000		UNV
BENZENE	UG/L										5.0000		UJ			
BROMODICHLOROMETHANE	UG/L										5.0000		U			
BROMOFORM	UG/L										5.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										5.0000		U			
CARBON TETRACHLORIDE	UG/L										5.0000		UJ			
CHLOROBENZENE	UG/L										5.0000		UJ			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										5.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
DIBROMOCHLOROMETHANE	UG/L										5.0000		U			
ETHYLBENZENE	UG/L										5.0000		UJ			
METHYLENE CHLORIDE	UG/L							2.5000		UNV	11.0000		U	1.0000		UNV
STYRENE	UG/L										5.0000		UJ			
TETRACHLOROETHENE	UG/L							2.5000		UNV	5.0000		U	1.0000		UNV
TOLUENE	UG/L							2.5000		UNV	5.0000		UJ	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
TRICHLOROETHENE	UG/L							2.5000		UNV	5.0000		U	1.0000		UNV
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										5.0000		UJ			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_188	EMGW_SYSGEN_190	EMGW_SYSGEN_190D	EMGW_SYSGEN_191	EMGW_SYSGEN_192
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	1079	1079	1079	1079	1079
DEPTH:	-	-	-	-	-
DATE COLLECTED:	11-MAY-90	14-NOV-90	14-NOV-90	15-NOV-90	20-FEB-91
NORTH COORDINATE:	482273.7	482273.7	482273.7	482273.7	482273.7
EAST COORDINATE:	1378165.47	1378165.47	1378165.47	1378165.47	1378165.47
QA TYPE:	NORMAL	NORMAL	DUPLICATE	NORMAL	NORMAL
QC OF:			EMGW_SYSGEN_190		
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										367.0000		NV	430.0000		NV
AMMONIA	MG/L										0.3500		NV	0.5100		NV
CHLORIDE	MG/L	3.0000		NV							6.0000		NV	3.0000		NV
FLUORIDE	MG/L	0.6100		NV							0.9800		NV	1.2200		NV
NITRATE, AS NITROGEN	MG/L	0.0600		NV										0.1400		NV
NITRATE/NITRITE	MG/L										0.2800		NV			
PH	STD										6.8000		NV	7.2400		NV
PHENOLS	MG/L	0.0050		UNV							0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L										0.0400		NV	0.7700		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM										783.0000		NV	1130.0000		NV
SULFATE	MG/L	244.0000		NV							231.0000		NV	375.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L										760.0000		NV	784.0000		NV
TOTAL ORGANIC CARBON	MG/L	2.0000		NV							6.0000		NV	7.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV							0.0100		UNV	0.0100		UNV
INORGANICS																
ALUMINUM	MG/L	3.5400		NV							0.5700		NV	11.6000		NV
ANTIMONY	MG/L	0.0250		UNV							0.0250		UNV	0.0250		UNV
ARSENIC	MG/L	0.0025		UNV							0.0025		UNV	0.0180		NV
BARIUM	MG/L	0.2000		UNV							0.2000		UNV	0.2000		UNV
BERYLLIUM	MG/L	0.0100		UNV							0.0100		UNV	0.0100		UNV
CADMIUM	MG/L	0.0010		UNV							0.0010		UNV	0.0010		UNV
CALCIUM	MG/L	104.0000		NV							80.3000		NV	206.0000		NV
CHROMIUM	MG/L	0.0050		UNV							0.0200		NV	0.0440		NV
COBALT	MG/L	0.0250		UNV							0.0250		UNV	0.0250		UNV
COPPER	MG/L	0.0250		UNV							0.0250		UNV	0.0440		NV
CYANIDE	MG/L	0.0050		UNV							0.0050		UNV	0.0100		UNV
IRON	MG/L	0.0500		UNV							1.1800		NV	42.9000		NV
LEAD	MG/L	0.0050		UNV							0.0050		UNV	0.0050		UNV

001054

5704

SAMPLE NUMBER:		EMGW_SYSGEN_188		EMGW_SYSGEN_190			EMGW_SYSGEN_190D			EMGW_SYSGEN_191			EMGW_SYSGEN_192		
LAB:		NET								NET			NET		
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	50.0000		NV							30.0000		NV	134.0000		NV
MANGANESE	MG/L	0.0490		NV							0.0480		NV	0.7520		NV
MERCURY	MG/L	0.0002		UNV							0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L	0.0250		UNV							0.0640		NV	0.0250		UNV
NICKEL	MG/L	0.0050		UNV							0.0050		UNV	0.0290		NV
POTASSIUM	MG/L	2.5500		NV							2.3500		NV	2.2500		NV
SELENIUM	MG/L	0.0025		UNV							0.0025		UNV	0.0025		UNV
SILVER	MG/L	0.0010		UNV							0.0010		UNV	0.0010		UNV
SODIUM	MG/L	24.0000		NV							9.2000		NV	19.1000		NV
THALLIUM	MG/L	0.0100		UNV							0.0100		UNV	0.0100		UNV
VANADIUM	MG/L	0.0500		UNV							0.0500		UNV	0.1060		NV
ZINC	MG/L	0.0200		UNV							0.0430		NV	0.0380		NV
MISC																
3-METHYLPHENOL	UG/L	4.0000		UNV	4.0000		UNV	4.0000		UNV						
DIPHENYLAMINE	UG/L	15.0000		UNV												
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV							1.0000		UNV
PESTICIDES																
4,4'-DDD	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
4,4'-DDE	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
4,4'-DDT	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
ALDRIN	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
ALPHA-BHC	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
AROCLOR-1016	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
AROCLOR-1221	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
AROCLOR-1232	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
AROCLOR-1242	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
AROCLOR-1248	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
AROCLOR-1254	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
AROCLOR-1260	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
BETA-BHC	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
CHLORDANE	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
DELTA-BHC	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
DIELDRIN	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
ENDOSULFAN II	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
ENDOSULFAN SULFATE	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
ENDOSULFAN-I	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
ENDRIN	UG/L	0.0800		UNV	0.2000		UNV	0.2000		UNV						
ENDRIN ALDEHYDE	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
GAMMA-BHC (LINDANE)	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
HEPTACHLOR	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						
HEPTACHLOR EPOXIDE	UG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV						

001055

SAMPLE NUMBER:		EMGW_SYSGEN_188		EMGW_SYSGEN_190		EMGW_SYSGEN_190D		EMGW_SYSGEN_191		EMGW_SYSGEN_192	
LAB:		NET		NET		NET					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
PESTICIDES											
TOXAPHENE	UG/L	0.5000	UNV	0.5000	UNV	0.5000	UNV				
RADIONUCLIDES											
URANIUM-238	PCI/L	0.6360	NV					0.6180	NV	0.3710	NV
URANIUM, TOTAL	UG/L	1.9400	NV					1.7300	NV	2.0400	NV
URANIUM-234	PCI/L	1.0200	NV					1.1100	NV	0.9110	NV
THORIUM-230	PCI/L	0.6500	UNV					1.1300	NV	0.8440	NV
RADIUM-226	PCI/L	1.0000	UNV					1.0000	UNV	1.0000	UNV
URANIUM-235/236	PCI/L	0.2200	UNV					0.2000	UNV	0.2000	UNV
THORIUM-232	PCI/L	0.6500	UNV					0.2400	UNV	0.3800	UNV
THORIUM, TOTAL	UG/L	5.8000	UNV					2.1000	UNV	3.4000	UNV
RADIUM-228	PCI/L	3.0000	UNV					3.0000	UNV	3.0000	UNV
THORIUM-228	PCI/L	0.6500	UNV					0.5500	NV	19.0000	NV
NEPTUNIUM-237	PCI/L	0.5000	UNV					0.5000	UNV	0.5000	UNV
PLUTONIUM-239/240	PCI/L	0.5000	UNV					0.5000	UNV	0.5000	UNV
PLUTONIUM-238	PCI/L	0.5000	UNV					0.5000	UNV	0.5000	UNV
STRONTIUM-90	PCI/L	1.0000	UNV								
TECHNETIUM-99	PCI/L	24.0000	UNV					24.0000	UNV	19.0000	UNV
RUTHENIUM-106	PCI/L	150.0000	UNV					150.0000	UNV	150.0000	UNV
CESIUM-137	PCI/L	9.0000	UNV					6.3000	UNV	68.0000	UNV
GROSS ALPHA	PCI/L	15.0000	UNV					14.0000	UNV	20.0000	UNV
GROSS BETA	PCI/L	28.0000	UNV					6.7000	UNV	13.0000	UNV
SEMIVOLATILES											
1,2,4-TRICHLOROBENZENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
1,3-DICHLOROBENZENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
1,4-DICHLOROBENZENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2,4,5-TRICHLOROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2,4,6-TRICHLOROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2,4-DICHLOROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2,4-DIMETHYLPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2,4-DINITROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2,4-DINITROTOLUENE	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
2,6-DINITROTOLUENE	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
2-CHLOROETHYLVINYL ETHER	UG/L			10.0000	UNV					10.0000	UNV
2-CHLORONAPHTHALENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2-CHLOROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2-METHYLNAPHTHALENE	UG/L			4.0000	UNV	4.0000	UNV				
2-METHYLPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
2-NITROANILINE	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
2-NITROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
3,3'-DICHLOROBENZIDINE	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
3-NITROANILINE	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				

001056

5704

SAMPLE NUMBER:		EMGW_SYSGEN_188		EMGW_SYSGEN_190		EMGW_SYSGEN_190D		EMGW_SYSGEN_191		EMGW_SYSGEN_192	
LAB:		NET		NET		NET					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
4-NITROANILINE	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
4-NITROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
ACENAPHTHENE	UG/L			4.0000	UNV	4.0000	UNV				
ACENAPHTHYLENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
ANTHRACENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
BENZO(A)ANTHRACENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
BENZO(A)PYRENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
BENZO(B)FLUORANTHENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
BENZO(G,H,I)PERYLENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
BENZO(K)FLUORANTHENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
BENZOIC ACID	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
BENZYL ALCOHOL	UG/L	40.0000	UNV	40.0000	UNV	40.0000	UNV				
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	15.0000	UNV	15.0000	UNV	15.0000	UNV				
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	35.4000	NV	4.0000	UNV	4.0000	UNV				
BUTYL BENZYL PHTHALATE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
CHRYSENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
DI-N-BUTYL PHTHALATE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
DI-N-OCTYL PHTHALATE	UG/L			4.0000	UNV	4.0000	UNV				
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
DIBENZOFURAN	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
DIETHYL PHTHALATE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
DIMETHYL PHTHALATE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
FLUORANTHENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
FLUORENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
HEXACHLOROBENZENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
HEXACHLOROBUTADIENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
HEXACHLOROETHANE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
ISOPHORONE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
N-NITROSODIPHENYLAMINE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
NAPHTHALENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
NITROBENZENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
P-CHLOROANILINE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
PENTACHLOROPHENOL	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
PHENANTHRENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
PHENOL	MG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				
PYRENE	UG/L	4.0000	UNV	4.0000	UNV	4.0000	UNV				

001057

SAMPLE NUMBER:		EMGW_SYSGEN_188		EMGW_SYSGEN_190		EMGW_SYSGEN_190D		EMGW_SYSGEN_191		EMGW_SYSGEN_192	
LAB:		NET		NET		NET					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
PYRIDINE	UG/L	4.0000	UNV								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
1,1-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
1,1-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
1,2-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
1,2-DICHLOROPROPANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
2-BUTANONE	UG/L	2.0000	UNV	2.0000	UNV					2.0000	UNV
2-HEXANONE	UG/L	2.0000	UNV	2.0000	UNV					2.0000	UNV
4-METHYL-2-PENTANONE	UG/L	2.0000	UNV	2.0000	UNV					2.0000	UNV
ACETONE	UG/L	2.0000	UNV	2.0000	UNV					2.0000	UNV
BENZENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
BROMODICHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
BROMOFORM	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
BROMOMETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
CARBON DISULFIDE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
CARBON TETRACHLORIDE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
CHLOROBENZENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
CHLOROETHANE	UG/L			1.0000	UNV					1.0000	UNV
CHLOROFORM	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
CHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
METHYLENE CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
STYRENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
VINYL ACETATE	UG/L	2.0000	UNV	2.0000	UNV					2.0000	UNV
VINYL CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV
XYLENES, TOTAL	UG/L	1.0000	UNV	1.0000	UNV					1.0000	UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_194	EMGW_SYSGEN_195	GW930105-5	GW930416-13	003161
TASK:	GWMON	GWMON	RCRA	50.03.23	3.2.4
LAB:	NET	NET	NET	DATACHEM	IT
WELL OR BORING NUMBER:	1079	1079	1079	1079	1080
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-JUL-91	03-OCT-91	05-JAN-93	16-APR-93	06-MAY-88
NORTH COORDINATE:	482273.7	482273.7	482273.7	482273.7	482229.86
EAST COORDINATE:	1378165.47	1378165.47	1378165.47	1378165.47	1378630.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	409.0000		NV	416.0000		NV	416.0000		NV	400.0000		-			
ALLYL CHLORIDE	UG/L							5.0000		UNV						
AMMONIA	MG/L	0.3000		NV	0.3800		NV	0.4000		NV	0.2900		-	0.3000		-
BICARBONATE ALKALINITY	MG/L							445.0000		NV	510.0000		-			
CARBONATE ALKALINITY	MG/L							3.0000		UNV	3.0000		U			
CHLORIDE	MG/L	1.0000		NV	1.0000		UNV	2.0000		NV	1.4000		-	5.1000		-
FLUORIDE	MG/L	1.1000		NV	1.0600		NV	1.2100		NV	1.2000		-	1.3000		-
NITRATE	MG/L							0.1200		NV				0.1000		R
NITRATE, AS NITROGEN	MG/L	0.2000		NV	0.0700		NV									
NITRATE/NITRITE	MG/L										10000.0000		-			
NITRITE, AS NITROGEN	MG/L							0.0200		UNV						
PH	STD	7.2800		NV	7.1700		NV	7.4000		NV	7.4000		-			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0100		U	0.0100		UJ
PHOSPHORUS	MG/L	0.3600		NV	0.3000		NV	0.3300		NV	0.1200		-	0.9480		J
SPECIFIC CONDUCTIVITY	UMHOS/CM	1120.0000		NV	1010.0000		NV	1260.0000		UNV	1200.0000		-			
SULFATE	MG/L	333.0000		NV	274.0000		NV	334.0000		NV	290.0000		-	200.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	854.0000		NV	770.0000		NV	809.0000		NV	810.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										8.2000		-			
TOTAL ORGANIC CARBON	MG/L	11.0000		NV	8.0000		NV	12.0000		NV	1.0000		UJ			
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV	0.0100		UJ			
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L													0.2000		-
TOTAL SOLIDS	MG/L							1070.0000		NV	910.0000		-			
INORGANICS																
ALUMINUM	MG/L	1.7800		NV	0.2000		UNV	0.2000		UNV	0.2470		J			
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0450		UJ			
ARSENIC	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0018		J	0.2000		U
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.0457		J	0.0480		-

001059

SAMPLE NUMBER:		EMGW_SYSGEN_194			EMGW_SYSGEN_195			GW930105-5			GW930416-13			003161		
LAB:		NET			NET			NET			DATACHEM			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
BERYLLIUM	MG/L	0.0500		UNV	0.0050		UNV	0.0050		UNV	0.0010		UJ			
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0030		UJ	0.0050		U
CALCIUM	MG/L	138.0000		NV	130.0000		NV	146.0000		NV	157.0000		J	94.3000		-
CHROMIUM	MG/L	0.0203		NV	0.0117		NV	0.0020		UNV	0.0099		UJ	0.0200		U
COBALT	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0060		UJ			
COPPER	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0081		UJ	0.0200		U
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0100		U			
IRON	MG/L	3.6800		NV	3.7000		NV	0.1000		UNV	0.4770		UJ	0.0050		U
LEAD	MG/L	0.0050		UNV	0.0030		UNV	0.0030		UNV	0.0010		UJ	0.0600		-
MAGNESIUM	MG/L	69.0000		NV	74.0000		NV	70.7000		NV	71.1000		J	65.9000		-
MANGANESE	MG/L	0.0430		NV	0.0760		NV	0.0460		NV	0.0311		J	0.0380		-
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		UJ	0.0002		U
MOLYBDENUM	MG/L	0.0100		UNV	0.0100		UNV	0.0135		NV				0.0200		U
NICKEL	MG/L	0.0100		UNV	0.0100		UNV	0.0140		NV	0.0190		UJ	0.0200		U
POTASSIUM	MG/L	1.7000		NV	1.7000		NV	2.9000		NV	1.2700		UJ	2.4000		-
SELENIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0020		UR	0.2000		U
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0087		J	0.0100		U
SODIUM	MG/L	18.9000		NV	16.0000		NV	24.0000		NV	18.7000		J	51.3000		-
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0010		UJ			
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0073		UJ			
ZINC	MG/L	0.0840		NV	0.0200		NV	0.0200		UNV	0.0060		UJ			
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							5.0000		UNV						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							2.0000		UNV						
1,2-DIBROMOETHANE	UG/L							2.0000		UNV						
2-CHLORO-1,3-BUTADIENE	UG/L							5.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACRYLONITRILE	UG/L							50.0000		UNV						
DICHLORODIFLUOROMETHANE	UG/L							10.0000		UNV						
ETHYL CYANIDE	UG/L							20.0000		UNV						
ETHYL METHACRYLATE	UG/L							5.0000		UNV						
IODOMETHANE	UG/L							5.0000		UNV						
METHACRYLONITRILE	UG/L							5.0000		UNV						
METHYL METHACRYLATE	UG/L							5.0000		UNV						
PENTACHLOROETHANE	UG/L							5.0000		UNV						
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L							20.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L										1.2000	.4	R	2.8000	.7	-
URANIUM, TOTAL	UG/L	2.9000		NV	1.4000		NV	1.8000		NV	1.9000		NV	7.0000	1	-

001060

5704

SAMPLE NUMBER:		EMGW_SYSGEN_194			EMGW_SYSGEN_195			GW930105-5			GW930416-13			003161		
LAB:		WMCO			WMCO			FERMCO Laboratory			FERMCO			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L										1.1000	.4	R	3.9000	.8	-
THORIUM-230	PCI/L							0.2000	.1	UNV	0.2000	.1	UJ	1.0000		U
RADIUM-226	PCI/L							1.0000	.3	UNV	1.0000	.2	UJ	1.0000		R
URANIUM-235/236	PCI/L										0.1000	.3	R	1.0000		U
THORIUM-232	PCI/L							0.2000	.1	UNV	0.2000	.1	UJ	1.0000		U
THORIUM, TOTAL	UG/L							1.4000		NV	1.8240	.1	NV			
RADIUM-228	PCI/L							3.0000	1	UNV	3.0000	1.3	U	3.0000		R
THORIUM-228	PCI/L							0.2000	.1	UNV	0.2000	.1	UJ	1.0000		U
NEPTUNIUM-237	PCI/L													1.0000		R
PLUTONIUM-239/240	PCI/L													1.0000		U
PLUTONIUM-238	PCI/L													1.0000		U
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L										15.0000	6.6	UJ	30.0000		UJ
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
GROSS ALPHA	PCI/L							1.4000	2.5	NV	4.9000	2.4	UNV			
GROSS BETA	PCI/L							5.9000	2.7	NV	5.4000	3.3	UNV			
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV						
CUMENE	UG/L							1.0000		UNV						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV				10.0000		U			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U			
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			

SAMPLE NUMBER:	EMGW_SYSGEN_194			EMGW_SYSGEN_195			GW930105-5			GW930416-13			003161		
LAB:	NET			NET			NET			DATACHEM					
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U			
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U			
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV						
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		UJ			
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			

001062

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003437			003692			003908			066423			066535
TASK:		3.2.4			3.2.4			3.2.4			9.25			9.25
LAB:		IT			IT			IT			IT			IT
WELL OR BORING NUMBER:		1080			1080			1080			1080			1080
DEPTH:		-			-			-			-			-
DATE COLLECTED:		04-AUG-88			10-NOV-88			26-FEB-89			19-JUN-89			31-AUG-89
NORTH COORDINATE:		482229.86			482229.86			482229.86			482229.86			482229.86
EAST COORDINATE:		1378630.51			1378630.51			1378630.51			1378630.51			1378630.51
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.2000		J	0.1500		J	0.4000		U						
CHLORIDE	MG/L	2.5000		-	8.3000		-	5.8000		U	0.5000		-	5.0000		-
FLUORIDE	MG/L	1.3000		-	1.0000		-	1.0000		-	1.0000		-	0.9200		-
NITRATE	MG/L	0.1000		-	0.0600		U	0.0400		-	0.1100		J	0.1000		UR
PHENOLS	MG/L	0.0100		J	0.0120		J	0.0070		-						
PHOSPHORUS	MG/L	0.1000		-	0.7580		-	0.0200		-						
SULFATE	MG/L	190.0000		-	98.7000		-	160.0000		-	193.0000		-	243.0000		-
TOTAL KJELDAHL NITROGEN	MG/L				0.4300		UJ	0.4000		U						
TOTAL ORGANIC CARBON	MG/L										4.9790		-	1.2500		-
TOTAL ORGANIC HALIDES	MG/L				0.0500		U	0.0500		U	0.0100		UJ	0.0150		-
TOTAL ORGANIC NITROGEN	MG/L	0.1000		-	0.2800		J	0.0000		-						
INORGANICS																
ALUMINUM	MG/L										0.1650		-			
ARSENIC	MG/L	0.0100		U	0.0050		J	0.0040		-						
BARIUM	MG/L	0.2000		U	0.0380		-	0.0460		-	0.0461		-			
BERYLLIUM	MG/L										0.0010		-			
CADMIUM	MG/L	0.0050		U	0.0029		U	0.0050		-						
CALCIUM	MG/L	120.0000		-	114.0000		-	130.0000		-	139.0000		-			
CHROMIUM	MG/L	0.0100		U	0.0200		U	0.0300		-	0.0354		-			
COBALT	MG/L										0.0100		U			
COPPER	MG/L	0.0300		U	0.0100		U	0.0100		U	0.0100		U			
IRON	MG/L	0.1000		U	0.1620		-	0.0600		U	0.5520		-			
LEAD	MG/L	0.0050		U	0.0020		UJ	0.0020		U	0.0020		U			
MAGNESIUM	MG/L	66.0000		-	68.5000		-	70.0000		-	87.6000		-			
MANGANESE	MG/L	0.0700		-	0.0470		-	0.0500		-						
MERCURY	MG/L	0.0003		U	0.0002		UJ	0.0002		J						
MOLYBDENUM	MG/L	0.0500		U	0.0200		U	0.0300		-						
NICKEL	MG/L	0.0400		U	0.0200		U	0.0300		U	0.2530		-			

SAMPLE NUMBER:		003437			003692			003908			066423			066535		
LAB:		IT			IT			IT			IT					
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L	5.0000		U	1.8200		J	1.6000		-						
SELENIUM	MG/L	0.0050		U	0.0020		U	0.0050		U						
SILVER	MG/L	0.0100		U	0.0100		U	0.0100		U	0.1730		-			
SODIUM	MG/L	36.0000		-	23.9000		-	24.0000		-						
VANADIUM	MG/L										0.0282		-			
ZINC	MG/L										0.0314		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.8000	.4	J	4.4000	.7	J	1.4000	.4	-	1.3000	.3	-	1.7000	.4	-
URANIUM, TOTAL	UG/L	6.0000	1	-	6.0000	1	J	5.0000	1	J	3.0000	1	-	4.0000	1	-
URANIUM-234	PCI/L	2.5000	.5	J	4.5000	.7	J	2.0000	.4	-	2.7000	.5	-	2.9000	.5	-
THORIUM-230	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U
RADIUM-226	PCI/L	1.6000	.5	-	1.0000		UJ	1.0000		UJ						
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U						
THORIUM, TOTAL	UG/L	2.0000		J	5.0000		U	4.0000	3	-						
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ	3.0000		UJ						
THORIUM-228	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U	1.0000		UJ	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U						
PLUTONIUM-238	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		U						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		UJ	30.0000		U	30.0000		UJ
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
VOLATILES																
1,1-DICHLOROETHANE	UG/L										5.0000		U			
ACETONE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										18.0000		U			
TETRACHLOROETHENE	UG/L										5.0000		U			
TOLUENE	UG/L										5.0000		U			
TRICHLOROETHENE	UG/L										5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		066565			066584			066674			066675			EMGW_SYSGEN_199
TASK:		9.25			9.25			9.27			9.27			GWMON
LAB:		IT			IT			IT			WMCO			NET
WELL OR BORING NUMBER:		1080			1080			1080			1080			1080
DEPTH:		-			-			-			-			-
DATE COLLECTED:		31-AUG-89			12-SEP-89			27-NOV-89			27-NOV-89			22-FEB-90
NORTH COORDINATE:		482229.86			482229.86			482229.86			482229.86			482229.86
EAST COORDINATE:		1378630.51			1378630.51			1378630.51			1378630.51			1378630.51
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L	1000.0000		UJ												
2,3,7,8-TETRACHLORODIBENZO-P-D	NG/L	1.4000		U												
HEXACHLORODIBENZO-P-DIOXINS	NG/L	0.8900		U												
HEXACHLORODIBENZOFURANS	NG/L	0.3200		-												
PENTACHLORODIBENZO-P-DIOXINS	NG/L	0.2400		U												
PENTACHLORODIBENZOFURANS	NG/L	0.3500		-												
TETRACHLORODIBENZO-P-DIOXINS	NG/L	0.4300		U												
TETRACHLORODIBENZOFURANS	NG/L	0.1200		-												
GENERAL CHEMISTRY																
CHLORIDE	MG/L										5.0000		NV	5.0000		NV
FLUORIDE	MG/L										0.8600		NV	0.6200		NV
NITRATE	MG/L										0.2400		NV			
NITRATE, AS NITROGEN	MG/L													0.1600		NV
PHENOLS	MG/L										0.0250		NV	0.0050		UNV
SULFATE	MG/L										190.0000		NV	188.0000		NV
SULFIDE	MG/L	0.5000		U												
TOTAL ORGANIC CARBON	MG/L										2.0000		NV	1.0000		NV
TOTAL ORGANIC HALIDES	MG/L										0.0100		UNV			
TOTAL ORGANIC HALOGENS	MG/L													0.0140		NV
HERBICIDES																
2,4,5-T	UG/L				0.1000		U									
2,4,5-TP (SILVEX)	UG/L				0.1000		U									
2,4-D	UG/L				0.2000		U									
INORGANICS																

001065

ALUMINUM	MG/L	0.6040	-									6.9000		NV	0.0500		UNV
SAMPLE NUMBER:		066565			066584			066674				066675			EMGW_SYSGEN_199		
LAB:		IT										WMCO			NET		
SUFFIX/FILTERFLAG:		NONE-FIL			-			-				NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																	
ANTIMONY	MG/L	0.0300		U													
ARSENIC	MG/L	0.0067		-								0.0130		NV	0.0030		NV
BARIUM	MG/L	0.0572		-								0.2000		UNV	0.2000		UNV
BERYLLIUM	MG/L	0.0020		-								0.0100		UNV	0.0100		UNV
CADMIUM	MG/L	0.0119		-													
CALCIUM	MG/L	146.0000		-								147.0000		NV	134.0000		NV
CHROMIUM	MG/L	0.0619		-								0.0090		NV	0.0690		NV
COBALT	MG/L	0.0100		U								0.0250		UNV	0.0250		UNV
COPPER	MG/L	0.0100		U								0.0250		UNV	0.0250		UNV
CYANIDE	MG/L	0.0050		U													
IRON	MG/L	0.5070		-								0.2320		NV	0.0500		UNV
LEAD	MG/L	0.0039		R								0.0050		NV	0.0100		NV
MAGNESIUM	MG/L	56.1000		-								82.0000		NV	86.0000		NV
MANGANESE	MG/L	0.0336		-								0.0460		NV	0.0200		UNV
MERCURY	MG/L	0.0002		U													
NICKEL	MG/L	0.0334		-								0.0100		NV	0.0050		UNV
OSMIUM	MG/L	0.0500		U													
POTASSIUM	MG/L	1.7900		-													
SELENIUM	MG/L	0.0020		UJ													
SILVER	MG/L	0.0140		-								0.0010		UNV	0.0010		UNV
SODIUM	MG/L	20.6000		-								23.5000		NV	21.8000		NV
THALLIUM	MG/L	0.0010		U													
TIN	MG/L	0.0300		U													
VANADIUM	MG/L	0.0295		-								0.0500		UNV	0.0500		UNV
ZINC	MG/L	0.0372		J								0.0200		UNV	0.0430		NV
MISC																	
1,2,3-TRICHLOROPROPANE	UG/L	5.0000		U													
1,2,4,5-TETRACHLOROBENZENE	UG/L				10.0000		UR										
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	10.0000		UJ													
1,2-DIBROMOETHANE	UG/L	5.0000		U													
1,3,5-TRINITROBENZENE	UG/L				10.0000		UR										
1,3-DINITROBENZENE	UG/L				10.0000		UR										
1,4-NAPHTHOQUINONE	UG/L				10.0000		UR										
1-NAPHTHYLAMINE	UG/L				120.0000		UR										
2,3,4,6-TETRACHLOROPHENOL	UG/L				10.0000		UR										
2,6-DICHLOROPHENOL	UG/L				10.0000		UR										
2-ACETYLAMINOFLUORENE	UG/L				10.0000		UR										
2-CHLORO-1,3-BUTADIENE	UG/L	5.0000		UR													
2-NAPHTHYLAMINE	UG/L				170.0000		UR										
2-PICOLINE	UG/L				70.0000		UR										
3,3'-DIMETHYLBENZIDINE	UG/L				80.0000		UR										
3-CHLOROPROPENE	UG/L	5.0000		UJ													

001066

5704

SAMPLE NUMBER:		066565			066584			066674			066675			EMGW_SYSGEN_199		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
3-METHYLCHOLANTHRENE	UG/L				30.0000		UR									
3-METHYLPHENOL	UG/L				10.0000		UR									
4-AMINOBIPHENYL	UG/L				50.0000		UR									
4-NITROQUINOLINE-1-OXIDE	UG/L				10.0000		UR									
5-NITRO-O-TOLUIDINE	UG/L				20.0000		UR									
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L				20.0000		UR									
A,A-DIMETHYLPHENETHYLAMINE	UG/L				10.0000		UR									
ACETONITRILE	UG/L	200.0000		UJ												
ACETOPHENONE	UG/L				10.0000		UR									
ACROLEIN	UG/L	10.0000		U												
ACROLEIN	UG/L	10.0000		U												
ACRYLONITRILE	UG/L	10.0000		UJ												
ANILINE	UG/L				10.0000		UR									
ARAMITE	UG/L				10.0000		UR									
DIALLATE	UG/L				10.0000		UR									
DIBROMOMETHANE	UG/L	10.0000		U												
DICHLORODIFLUOROMETHANE	UG/L	200.0000		UR												
DINOSEB	UG/L				20.0000		UR									
DIPHENYLAMINE	UG/L				10.0000		UR									
ETHYL CYANIDE	UG/L	100.0000		UR												
ETHYL METHACRYLATE	UG/L	10.0000		U												
ETHYL METHANESULFONATE	UG/L				10.0000		UR									
HEXACHLOROPHENE	UG/L				500.0000		UR									
HEXACHLOROPROPENE	UG/L				20.0000		UR									
IODOMETHANE	UG/L	5.0000		U												
ISODRIN	UG/L				0.0500		U									
ISOSAFROLE	UG/L				10.0000		UR									
KEPONE	UG/L				0.1000		U									
METHACRYLONITRILE	UG/L	10.0000		UJ												
METHAPYRILENE	UG/L				40.0000		UR									
METHYL METHACRYLATE	UG/L	10.0000		U												
METHYL METHANESULFONATE	UG/L				10.0000		UR									
N-NITROSODI-N-BUTYLAMINE	UG/L				20.0000		UR									
N-NITROSODIETHYLAMINE	UG/L				10.0000		UR									
N-NITROSOMETHYLETHYLAMINE	UG/L				10.0000		UR									
N-NITROSOMORPHOLINE	UG/L				10.0000		UR									
N-NITROSOPIPERIDINE	UG/L				10.0000		UR									
N-NITROSOPYRROLIDINE	UG/L				10.0000		UR									
O-TOLUIDINE	UG/L				10.0000		UR									
P-DIMETHYLAMINOAZOBENZENE	UG/L				30.0000		UR									
P-PHENYLENEDIAMINE	UG/L				50.0000		UR									
PENTACHLOROBENZENE	UG/L				20.0000		UR									
PENTACHLOROETHANE	UG/L				20.0000		UR									
PENTACHLORONITROBENZENE	UG/L				20.0000		UR									
PHENACETIN	UG/L				10.0000		UR									

SAMPLE NUMBER:	066565			066584		066674			066675			EMGW_SYSGEN_199		
LAB:				IT										
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
PRONAMIDE	UG/L				30.0000		UR									
SAFROLE	UG/L				10.0000		UR									
TRANS-1,2-DICHLOROETHENE	UG/L	5.0000		U												
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	20.0000		U												
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L				1.0000		U									
DISULFOTON	UG/L				1.0000		U									
FAMPHUR	UG/L				1.0000		U									
METHYL PARATHION	UG/L				0.0500		U									
PARATHION	UG/L				0.0500		U									
PHORATE	UG/L				1.0000		U									
THIONAZIN	UG/L				1.0000		U									
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.5000		U									
AROCLOR-1016	UG/L				0.5000		U									
AROCLOR-1221	UG/L				0.5000		U									
AROCLOR-1232	UG/L				0.5000		U									
AROCLOR-1242	UG/L				0.5000		U									
AROCLOR-1248	UG/L				0.5000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.5000		U									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
SULFOTEP	UG/L				1.0000		U									
TOXAPHENE	UG/L				1.0000		U									

SAMPLE NUMBER:		066565			066584			066674			066675			EMGW_SYSGEN_199		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L							1.4000	.3	R				1.8000		NV
URANIUM, TOTAL	UG/L							3.4000	.4	R				5.3000		NV
URANIUM-234	PCI/L							2.3000	.4	R				2.9000		NV
THORIUM-230	PCI/L							1.0000		R				1.3000		NV
URANIUM-235/236	PCI/L							1.0000		R						
THORIUM-232	PCI/L							1.0000		R						
THORIUM-228	PCI/L							1.0000		R				1.0000		UNV
TECHNETIUM-99	PCI/L							30.0000		R				15.0000		UNV
URANIUM-235	PCI/L													1.0000		UNV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				50.0000		UR									
2,4-DINITROTOLUENE	UG/L				10.0000		UR									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UR									
3-NITROANILINE	UG/L				50.0000		UJ									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UR									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		UR									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		UR									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				50.0000		UJ									
4-NITROPHENOL	UG/L				50.0000		UR									
ACENAPHTHENE	UG/L				10.0000		UR									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		UR									
BENZO(A)ANTHRACENE	UG/L				10.0000		UR									
BENZO(A)PYRENE	UG/L				10.0000		UR									
BENZO(B)FLUORANTHENE	UG/L				10.0000		UR									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UR									

SAMPLE NUMBER:		066565		066584		066674			066675			EMGW_SYSGEN_199		
LAB:				IT										
SUFFIX/FILTERFLAG:		-		NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(K)FLUORANTHENE	UG/L				10.0000		UR									
BENZOIC ACID	UG/L				50.0000		U									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				3.0000		R									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		UR									
CHRYSENE	UG/L				10.0000		UR									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UR									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UR									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UR									
DIBENZOFURAN	UG/L				10.0000		UR									
DIETHYL PHTHALATE	UG/L				10.0000		UR									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		UR									
FLUORENE	UG/L				10.0000		UR									
HEXACHLOROBENZENE	UG/L				10.0000		UR									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		UR									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIMETHYLAMINE	UG/L				10.0000		UR									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L				10.0000		UR									
P-CHLOROANILINE	UG/L				10.0000		UJ									
PENTACHLOROPHENOL	UG/L				50.0000		UR									
PHENANTHRENE	UG/L				10.0000		UR									
PHENOL	MG/L				10.0000		U									
PYRENE	UG/L				10.0000		UR									
PYRIDINE	UG/L	50000.0000		UJ												
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	5.0000		U												
1,1,1-TRICHLOROETHANE	UG/L	5.0000		UJ												
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U												
1,1-DICHLOROETHANE	UG/L	5.0000		UJ							2.5000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	5.0000		U												
1,2-DICHLOROETHANE	UG/L	5.0000		U							2.5000		UNV	1.0000		UNV

001070

8704

SAMPLE NUMBER:	066565			066584			066674			066675			EMGW_SYSGEN_199		
LAB:	IT									WMCO			NET		
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROPROPANE	UG/L	5.0000		U												
2-BUTANONE	UG/L	10.0000		UR												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	3.0000		J							2.5000		UNV	2.0000		UNV
BENZENE	UG/L	5.0000		UJ												
BROMODICHLOROMETHANE	UG/L	5.0000		U												
BROMOFORM	UG/L	5.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	5.0000		U												
CARBON TETRACHLORIDE	UG/L	5.0000		UJ												
CHLOROBENZENE	UG/L	5.0000		UJ												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	5.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
DIBROMOCHLOROMETHANE	UG/L	5.0000		U												
ETHYLBENZENE	UG/L	5.0000		UJ												
ISOBUTYL ALCOHOL	UG/L	3000.0000		UJ												
METHYLENE CHLORIDE	UG/L	5.0000		U							2.5000		UNV	1.0000		UNV
STYRENE	UG/L	5.0000		UJ												
TETRACHLOROETHENE	UG/L	5.0000		U							2.5000		UNV	1.0000		UNV
TOLUENE	UG/L	5.0000		UJ							2.5000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
TRICHLOROETHENE	UG/L	5.0000		U							2.5000		UNV	1.0000		UNV
TRICHLOROFLUOROMETHANE	UG/L	5.0000		U												
VINYL ACETATE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	5.0000		UJ												

001021

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_200	EMGW_SYSGEN_201	EMGW_SYSGEN_202	EMGW_SYSGEN_203	EMGW_SYSGEN_204
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	NET	NET	NET	NET	IT
WELL OR BORING NUMBER:	1080	1080	1080	1080	1080
DEPTH:	-	-	-	-	-
DATE COLLECTED:	14-MAY-90	15-AUG-90	12-NOV-90	25-FEB-91	26-FEB-91
NORTH COORDINATE:	482229.86	482229.86	482229.86	482229.86	482229.86
EAST COORDINATE:	1378630.51	1378630.51	1378630.51	1378630.51	1378630.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							364.0000		NV	535.0000		NV			
AMMONIA	MG/L							0.0700		NV	0.0400		NV			
CHLORIDE	MG/L	6.0000		NV	6.0000		NV	4.0000		NV	7.0000		NV			
FLUORIDE	MG/L	0.5700		NV	1.0000		NV	0.6600		NV	0.8200		NV			
NITRATE, AS NITROGEN	MG/L	0.0300		NV	0.0400		NV				0.0200		UNV			
NITRATE/NITRITE	MG/L							0.0600		NV						
PH	STD							6.5000		NV	7.0000		NV			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV			
PHOSPHORUS	MG/L							0.4300		NV	1.6600		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM							1120.0000		NV	1210.0000		NV			
SULFATE	MG/L	164.0000		NV	187.0000		NV	216.0000		NV	243.0000		NV			
TOTAL DISSOLVED SOLIDS	MG/L							898.0000		NV	840.0000		NV			
TOTAL ORGANIC CARBON	MG/L	3.0000		NV	3.0000		NV	6.0000		NV	25.0000		NV			
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0270		NV	0.0230		NV	0.0200		NV			
INORGANICS																
ALUMINUM	MG/L	28.5000		NV	0.5000		UNV	13.8000		NV	10.0000		NV			
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV			
ARSENIC	MG/L	0.0030		NV	0.0130		NV	0.0025		UNV	0.0030		NV			
BARIUM	MG/L	0.2100		NV	0.2000		UNV	0.2000		UNV	0.2350		NV			
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV			
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV			
CALCIUM	MG/L	401.0000		NV	110.0000		NV	8.2000		NV	110.0000		NV			
CHROMIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0700		NV			
COBALT	MG/L	0.0270		NV	0.0250		UNV	0.0250		UNV	0.0250		UNV			
COPPER	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0360		NV			
CYANIDE	MG/L	0.0050		UNV				0.0050		UNV	0.0100		UNV			
IRON	MG/L	30.6000		NV	0.0500		UNV	0.0500		UNV	0.0500		UNV			
LEAD	MG/L	0.0260		NV	0.0050		UNV	0.0350		NV	0.0350		NV			

SAMPLE NUMBER:		EMGW_SYSGEN_200		EMGW_SYSGEN_201		EMGW_SYSGEN_202		EMGW_SYSGEN_203		EMGW_SYSGEN_204	
LAB:		NET		NET		NET		NET			
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-UNF		NONE-UNF		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MAGNESIUM	MG/L	237.0000	NV	66.0000	NV	25.0000	NV	74.0000	NV		
MANGANESE	MG/L	0.0200	UNV	0.2890	NV	0.0200	UNV	0.8820	NV		
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	UNV		
MOLYBDENUM	MG/L	0.0250	UNV	0.0250	UNV	0.0250	UNV	0.0250	UNV		
NICKEL	MG/L	0.0060	NV	0.0050	UNV	0.0050	UNV	0.0140	NV		
POTASSIUM	MG/L	18.0000	NV	2.4600	NV	4.6600	NV	4.7300	NV		
SELENIUM	MG/L	0.0025	UNV	0.0025	UNV	0.0025	UNV	0.0025	UNV		
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0010	UNV		
SODIUM	MG/L	35.6000	NV	18.5000	NV	5.6000	NV	21.3000	NV		
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0100	UNV		
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.1090	NV		
ZINC	MG/L	0.0200	UNV	0.0200	UNV	0.1390	NV	0.0570	NV		
MISC											
3-METHYLPHENOL	UG/L	4.0000	UNV								
DIPHENYLAMINE	UG/L	15.0000	UNV								
TRANS-1,2-DICHLOROETHENE	UG/L					1.0000	UNV	1.0000	UNV		
PESTICIDES											
4,4'-DDD	UG/L	0.2000	UNV								
4,4'-DDE	UG/L	0.2000	UNV								
4,4'-DDT	UG/L	0.2000	UNV								
ALDRIN	UG/L	0.2000	UNV								
ALPHA-BHC	UG/L	0.2000	UNV								
AROCLOR-1016	UG/L	0.2000	UNV								
AROCLOR-1221	UG/L	0.2000	UNV								
AROCLOR-1232	UG/L	0.2000	UNV								
AROCLOR-1242	UG/L	0.2000	UNV								
AROCLOR-1248	UG/L	0.2000	UNV								
AROCLOR-1254	UG/L	0.2000	UNV								
AROCLOR-1260	UG/L	0.2000	UNV								
BETA-BHC	UG/L	0.2000	UNV								
CHLORDANE	UG/L	0.2000	UNV								
DELTA-BHC	UG/L	0.2000	UNV								
DIELDRIN	UG/L	0.2000	UNV								
ENDOSULFAN II	UG/L	0.2000	UNV								
ENDOSULFAN SULFATE	UG/L	0.2000	UNV								
ENDOSULFAN-I	UG/L	0.2000	UNV								
ENDRIN	UG/L	0.0800	UNV								
ENDRIN ALDEHYDE	UG/L	0.2000	UNV								
GAMMA-BHC (LINDANE)	UG/L	0.2000	UNV								
HEPTACHLOR	UG/L	0.2000	UNV								
HEPTACHLOR EPOXIDE	UG/L	0.2000	UNV								

SAMPLE NUMBER:		EMGW_SYSGEN_200			EMGW_SYSGEN_201			EMGW_SYSGEN_202			EMGW_SYSGEN_203			EMGW_SYSGEN_204		
LAB:		NET														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
TOXAPHENE	UG/L	0.5000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L	1.1100		NV	1.9700		NV							4.5600		NV
URANIUM, TOTAL	UG/L	3.5200		NV	6.6400		NV							5.5500		NV
URANIUM-234	PCI/L	2.8500		NV	2.7800		NV							4.0500		NV
THORIUM-230	PCI/L	0.8800		UNV	1.8800		NV							0.2200		UNV
RADIUM-226	PCI/L	2.2100		NV	1.0000		UNV							1.0000		UNV
URANIUM-235/236	PCI/L	0.5140		NV	0.2500		UNV							0.2200		UNV
THORIUM-232	PCI/L	0.8800		UNV	0.8070		NV							0.9190		NV
THORIUM, TOTAL	UG/L	8.0000		UNV	7.2800		NV							8.2900		NV
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV							3.0000		UNV
THORIUM-228	PCI/L	0.8800		UNV	0.8070		NV							1.8700		NV
NEPTUNIUM-237	PCI/L	0.5000		UNV										0.5000		UNV
PLUTONIUM-239/240	PCI/L	0.5000		UNV										0.5000		UNV
PLUTONIUM-238	PCI/L	0.5000		UNV										0.5000		UNV
STRONTIUM-90	PCI/L	2.3500		NV												
TECHNETIUM-99	PCI/L	30.0000		UNV										17.0000		UNV
RUTHENIUM-106	PCI/L	150.0000		UNV										150.0000		UNV
CESIUM-137	PCI/L	8.2000		UNV										9.1000		UNV
GROSS ALPHA	PCI/L	26.4000		NV										24.3000		NV
GROSS BETA	PCI/L	27.4000		NV										37.7000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	4.0000		UNV												
1,3-DICHLOROBENZENE	UG/L	4.0000		UNV												
1,4-DICHLOROBENZENE	UG/L	4.0000		UNV												
2,4,5-TRICHLOROPHENOL	UG/L	4.0000		UNV												
2,4,6-TRICHLOROPHENOL	UG/L	4.0000		UNV												
2,4-DICHLOROPHENOL	UG/L	4.0000		UNV												
2,4-DIMETHYLPHENOL	UG/L	4.0000		UNV												
2,4-DINITROPHENOL	UG/L	4.0000		UNV												
2,4-DINITROTOLUENE	UG/L	15.0000		UNV												
2,6-DINITROTOLUENE	UG/L	15.0000		UNV												
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV	10.0000		UNV			
2-CHLORONAPHTHALENE	UG/L	4.0000		UNV												
2-CHLOROPHENOL	UG/L	4.0000		UNV												
2-METHYLPHENOL	UG/L	4.0000		UNV												
2-NITROANILINE	UG/L	15.0000		UNV												
2-NITROPHENOL	UG/L	4.0000		UNV												
3,3'-DICHLOROBENZIDINE	UG/L	15.0000		UNV												
3-NITROANILINE	UG/L	15.0000		UNV												
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_200		EMGW_SYSGEN_201			EMGW_SYSGEN_202			EMGW_SYSGEN_203			EMGW_SYSGEN_204		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000		UNV												
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000		UNV												
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000		UNV												
4-NITROANILINE	UG/L	15.0000		UNV												
4-NITROPHENOL	UG/L	4.0000		UNV												
ACENAPHTHYLENE	UG/L	4.0000		UNV												
ANTHRACENE	UG/L	4.0000		UNV												
BENZO(A)ANTHRACENE	UG/L	4.0000		UNV												
BENZO(A)PYRENE	UG/L	4.0000		UNV												
BENZO(B)FLUORANTHENE	UG/L	4.0000		UNV												
BENZO(G,H,I)PERYLENE	UG/L	4.0000		UNV												
BENZO(K)FLUORANTHENE	UG/L	4.0000		UNV												
BENZOIC ACID	UG/L	4.0000		UNV												
BENZYL ALCOHOL	UG/L	40.0000		UNV												
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000		UNV												
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000		UNV												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	15.0000		UNV												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4.0000		UNV												
BUTYL BENZYL PHTHALATE	UG/L	4.0000		UNV												
CHRYSENE	UG/L	4.0000		UNV												
DI-N-BUTYL PHTHALATE	UG/L	4.0000		UNV												
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000		UNV												
DIBENZOFURAN	UG/L	4.0000		UNV												
DIETHYL PHTHALATE	UG/L	4.0000		UNV												
DIMETHYL PHTHALATE	UG/L	4.0000		UNV												
FLUORANTHENE	UG/L	4.0000		UNV												
FLUORENE	UG/L	4.0000		UNV												
HEXACHLOROBENZENE	UG/L	4.0000		UNV												
HEXACHLOROBUTADIENE	UG/L	4.0000		UNV												
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000		UNV												
HEXACHLOROETHANE	UG/L	4.0000		UNV												
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000		UNV												
ISOPHORONE	UG/L	4.0000		UNV												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000		UNV												
N-NITROSODIPHENYLAMINE	UG/L	4.0000		UNV												
NAPHTHALENE	UG/L	4.0000		UNV												
NITROBENZENE	UG/L	4.0000		UNV												
P-CHLOROANILINE	UG/L	4.0000		UNV												
PENTACHLOROPHENOL	UG/L	4.0000		UNV												
PHENANTHRENE	UG/L	4.0000		UNV												
PHENOL	MG/L	4.0000		UNV												
PYRENE	UG/L	4.0000		UNV												
PYRIDINE	UG/L	4.0000		UNV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066584	066674	066675	EMGW_SYSGEN_199	EMGW_SYSGEN_200
TASK:	9.25	9.27	9.27	GWMON	GWMON
LAB:	IT	IT	WMCO	NET	NET
WELL OR BORING NUMBER:	1080	1080	1080	1080	1080
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-SEP-89	27-NOV-89	27-NOV-89	22-FEB-90	14-MAY-90
NORTH COORDINATE:	482229.86	482229.86	482229.86	482229.86	482229.86
EAST COORDINATE:	1378630.51	1378630.51	1378630.51	1378630.51	1378630.51
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L							5.0000		NV	5.0000		NV	6.0000		NV
FLUORIDE	MG/L							0.8600		NV	0.6200		NV	0.5700		NV
NITRATE	MG/L							0.2400		NV						
NITRATE, AS NITROGEN	MG/L										0.1600		NV	0.0300		NV
PHENOLS	MG/L							0.0250		NV	0.0050		UNV	0.0050		UNV
SULFATE	MG/L							190.0000		NV	188.0000		NV	164.0000		NV
TOTAL ORGANIC CARBON	MG/L							2.0000		NV	1.0000		NV	3.0000		NV
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV						
TOTAL ORGANIC HALOGENS	MG/L										0.0140		NV	0.0100		UNV
HERBICIDES																
2,4,5-T	UG/L	0.1000		U												
2,4,5-TP (SILVEX)	UG/L	0.1000		U												
2,4-D	UG/L	0.2000		U												
INORGANICS																
ALUMINUM	MG/L							6.9000		NV	0.0500		UNV	28.5000		NV
ANTIMONY	MG/L													0.0250		UNV
ARSENIC	MG/L							0.0130		NV	0.0030		NV	0.0030		NV
BARIUM	MG/L							0.2000		UNV	0.2000		UNV	0.2100		NV
BERYLLIUM	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L													0.0010		UNV
CALCIUM	MG/L							147.0000		NV	134.0000		NV	401.0000		NV
CHROMIUM	MG/L							0.0090		NV	0.0690		NV	0.0050		UNV
COBALT	MG/L							0.0250		UNV	0.0250		UNV	0.0270		NV
COPPER	MG/L							0.0250		UNV	0.0250		UNV	0.0250		UNV
CYANIDE	MG/L													0.0050		UNV
IRON	MG/L							0.2320		NV	0.0500		UNV	30.6000		NV

001076

6704

SAMPLE NUMBER:		066584			066674			066675			EMGW_SYSGEN_199			EMGW_SYSGEN_200		
LAB:								WMCO			NET			NET		
SUFFIX/FILTERFLAG:		-			-			F-FIL			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L							0.0050		NV	0.0100		NV	0.0260		NV
MAGNESIUM	MG/L							82.0000		NV	86.0000		NV	237.0000		NV
MANGANESE	MG/L							0.0460		NV	0.0200		UNV	0.0200		UNV
MERCURY	MG/L													0.0002		UNV
MOLYBDENUM	MG/L													0.0250		UNV
NICKEL	MG/L							0.0100		NV	0.0050		UNV	0.0060		NV
POTASSIUM	MG/L													18.0000		NV
SELENIUM	MG/L													0.0025		UNV
SILVER	MG/L							0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L							23.5000		NV	21.8000		NV	35.6000		NV
THALLIUM	MG/L													0.0100		UNV
VANADIUM	MG/L							0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC	MG/L							0.0200		UNV	0.0430		NV	0.0200		UNV
MISC																
1,2,4,5-TETRACHLOROBENZENE	UG/L	10.0000		UR												
1,3,5-TRINITROBENZENE	UG/L	10.0000		UR												
1,3-DINITROBENZENE	UG/L	10.0000		UR												
1,4-NAPHTHOQUINONE	UG/L	10.0000		UR												
1-NAPHTHYLAMINE	UG/L	120.0000		UR												
2,3,4,6-TETRACHLOROPHENOL	UG/L	10.0000		UR												
2,6-DICHLOROPHENOL	UG/L	10.0000		UR												
2-ACETYLAMINOFLUORENE	UG/L	10.0000		UR												
2-NAPHTHYLAMINE	UG/L	170.0000		UR												
2-PICOLINE	UG/L	70.0000		UR												
3,3'-DIMETHYLBENZIDINE	UG/L	80.0000		UR												
3-METHYLCHOLANTHRENE	UG/L	30.0000		UR												
3-METHYLPHENOL	UG/L	10.0000		UR										4.0000		UNV
4-AMINOBIPHENYL	UG/L	50.0000		UR												
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000		UR												
5-NITRO-O-TOLUIDINE	UG/L	20.0000		UR												
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000		UR												
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000		UR												
ACETOPHENONE	UG/L	10.0000		UR												
ANILINE	UG/L	10.0000		UR												
ARAMITE	UG/L	10.0000		UR												
DIALLATE	UG/L	10.0000		UR												
DINOSEB	UG/L	20.0000		UR										15.0000		UNV
DIPHENYLAMINE	UG/L	10.0000		UR												
ETHYL METHANESULFONATE	UG/L	10.0000		UR												
HEXACHLOROPHENE	UG/L	500.0000		UR												
HEXACHLOROPROPENE	UG/L	20.0000		UR												
ISODRIN	UG/L	0.0500		U												
ISOSAFROLE	UG/L	10.0000		UR												

001077

SAMPLE NUMBER:		066584		066674			066675			EMGW_SYSGEN_199			EMGW_SYSGEN_200		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
KEPONE	UG/L	0.1000		U												
METHAPYRILENE	UG/L	40.0000		UR												
METHYL METHANESULFONATE	UG/L	10.0000		UR												
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000		UR												
N-NITROSODIETHYLAMINE	UG/L	10.0000		UR												
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000		UR												
N-NITROSOMORPHOLINE	UG/L	10.0000		UR												
N-NITROSOPIPERIDINE	UG/L	10.0000		UR												
N-NITROSOPYRROLIDINE	UG/L	10.0000		UR												
O-TOLUIDINE	UG/L	10.0000		UR												
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000		UR												
P-PHENYLENEDIAMINE	UG/L	50.0000		UR												
PENTACHLOROBENZENE	UG/L	20.0000		UR												
PENTACHLOROETHANE	UG/L	20.0000		UR												
PENTACHLORONITROBENZENE	UG/L	20.0000		UR												
PHENACETIN	UG/L	10.0000		UR												
PRONAMIDE	UG/L	30.0000		UR												
SAFROLE	UG/L	10.0000		UR												
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L	1.0000		U												
DISULFOTON	UG/L	1.0000		U												
FAMPHUR	UG/L	1.0000		U												
METHYL PARATHION	UG/L	0.0500		U												
PARATHION	UG/L	0.0500		U												
PHORATE	UG/L	1.0000		U												
THIONAZIN	UG/L	1.0000		U												
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U										0.2000		UNV
4,4'-DDE	UG/L	0.1000		U										0.2000		UNV
4,4'-DDT	UG/L	0.1000		U										0.2000		UNV
ALDRIN	UG/L	0.0500		U										0.2000		UNV
ALPHA-BHC	UG/L	0.0500		U										0.2000		UNV
ALPHA-CHLORDANE	UG/L	0.5000		U												
AROCLOR-1016	UG/L	0.5000		U										0.2000		UNV
AROCLOR-1221	UG/L	0.5000		U										0.2000		UNV
AROCLOR-1232	UG/L	0.5000		U										0.2000		UNV
AROCLOR-1242	UG/L	0.5000		U										0.2000		UNV
AROCLOR-1248	UG/L	0.5000		U										0.2000		UNV
AROCLOR-1254	UG/L	1.0000		U										0.2000		UNV
AROCLOR-1260	UG/L	1.0000		U										0.2000		UNV
BETA-BHC	UG/L	0.0500		U										0.2000		UNV

SAMPLE NUMBER:	066584			066674			066675			EMGW_SYSGEN_199			EMGW_SYSGEN_200		
LAB:	IT												NET		
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
CHLORDANE	UG/L													0.2000		UNV
DELTA-BHC	UG/L	0.0500		U										0.2000		UNV
DIELDRIN	UG/L	0.1000		U										0.2000		UNV
ENDOSULFAN II	UG/L	0.1000		U										0.2000		UNV
ENDOSULFAN SULFATE	UG/L	0.1000		U										0.2000		UNV
ENDOSULFAN-I	UG/L	0.0500		U										0.2000		UNV
ENDRIN	UG/L	0.1000		U										0.0800		UNV
ENDRIN ALDEHYDE	UG/L													0.2000		UNV
ENDRIN KETONE	UG/L	0.1000		U												
GAMMA-BHC (LINDANE)	UG/L	0.0500		U										0.2000		UNV
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U										0.2000		UNV
HEPTACHLOR EPOXIDE	UG/L	0.0500		U										0.2000		UNV
METHOXYCHLOR	UG/L	0.5000		U												
SULFOTEP	UG/L	1.0000		U												
TOXAPHENE	UG/L	1.0000		U										0.5000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L				1.4000	.3	R				1.8000		NV	1.1100		NV
URANIUM, TOTAL	UG/L				3.4000	.4	R				5.3000		NV	3.5200		NV
URANIUM-234	PCI/L				2.3000	.4	R				2.9000		NV	2.8500		NV
THORIUM-230	PCI/L				1.0000		R				1.3000		NV	0.8800		UNV
RADIUM-226	PCI/L													2.2100		NV
URANIUM-235/236	PCI/L				1.0000		R							0.5140		NV
THORIUM-232	PCI/L				1.0000		R							0.8800		UNV
THORIUM, TOTAL	UG/L													8.0000		UNV
RADIUM-228	PCI/L													3.0000		UNV
THORIUM-228	PCI/L				1.0000		R				1.0000		UNV	0.8800		UNV
NEPTUNIUM-237	PCI/L													0.5000		UNV
PLUTONIUM-239/240	PCI/L													0.5000		UNV
PLUTONIUM-238	PCI/L													0.5000		UNV
STRONTIUM-90	PCI/L													2.3500		NV
TECHNETIUM-99	PCI/L				30.0000		R				15.0000		UNV	30.0000		UNV
RUTHENIUM-106	PCI/L													150.0000		UNV
CESIUM-137	PCI/L													8.2000		UNV
GROSS ALPHA	PCI/L													26.4000		NV
GROSS BETA	PCI/L													27.4000		NV
URANIUM-235	PCI/L										1.0000		UNV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U										4.0000		UNV
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U										4.0000		UNV

SAMPLE NUMBER:		066584			066674			066675			EMGW_SYSGEN_199			EMGW_SYSGEN_200		
LAB:		IT												NET		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
FLUORANTHENE	UG/L	10.0000		UR										4.0000		UNV
FLUORENE	UG/L	10.0000		UR										4.0000		UNV
HEXACHLOROBENZENE	UG/L	10.0000		UR										4.0000		UNV
HEXACHLOROBUTADIENE	UG/L	10.0000		U										4.0000		UNV
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U										4.0000		UNV
HEXACHLOROETHANE	UG/L	10.0000		U										4.0000		UNV
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		UR										4.0000		UNV
ISOPHORONE	UG/L	10.0000		U										4.0000		UNV
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U										4.0000		UNV
N-NITROSODIMETHYLAMINE	UG/L	10.0000		UR												
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U										4.0000		UNV
NAPHTHALENE	UG/L	10.0000		U										4.0000		UNV
NITROBENZENE	UG/L	10.0000		U										4.0000		UNV
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	10.0000		UR												
P-CHLOROANILINE	UG/L	10.0000		UJ										4.0000		UNV
PENTACHLOROPHENOL	UG/L	50.0000		UR										4.0000		UNV
PHENANTHRENE	UG/L	10.0000		UR										4.0000		UNV
PHENOL	MG/L	10.0000		U										4.0000		UNV
PYRENE	UG/L	10.0000		UR										4.0000		UNV
PYRIDINE	UG/L													4.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHANE	UG/L							2.5000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L													1.0000		UNV
1,2-DICHLOROETHANE	UG/L							2.5000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L													1.0000		UNV
1,2-DICHLOROPROPANE	UG/L													1.0000		UNV
2-BUTANONE	UG/L													2.0000		UNV
2-HEXANONE	UG/L													2.0000		UNV
4-METHYL-2-PENTANONE	UG/L													2.0000		UNV
ACETONE	UG/L							2.5000		UNV	2.0000		UNV	2.0000		UNV
BENZENE	UG/L													1.0000		UNV
BROMODICHLOROMETHANE	UG/L													1.0000		UNV
BROMOFORM	UG/L													1.0000		UNV
BROMOMETHANE	UG/L													1.0000		UNV
CARBON DISULFIDE	UG/L													1.0000		UNV
CARBON TETRACHLORIDE	UG/L													1.0000		UNV
CHLOROBENZENE	UG/L													1.0000		UNV
CHLOROFORM	UG/L													1.0000		UNV
CHLOROMETHANE	UG/L													1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L													1.0000		UNV

080

5704

SAMPLE NUMBER:		066584			066674			066675			EMGW_SYSGEN_199			EMGW_SYSGEN_200		
LAB:														NET		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
DIBROMOCHLOROMETHANE	UG/L													1.0000		UNV
ETHYLBENZENE	UG/L													1.0000		UNV
METHYLENE CHLORIDE	UG/L							2.5000		UNV	1.0000		UNV	1.0000		UNV
STYRENE	UG/L													1.0000		UNV
TETRACHLOROETHENE	UG/L							2.5000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L							2.5000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L													1.0000		UNV
TRICHLOROETHENE	UG/L							2.5000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L													2.0000		UNV
VINYL CHLORIDE	UG/L													1.0000		UNV
XYLENES, TOTAL	UG/L													1.0000		UNV

001081

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_201			EMGW_SYSGEN_202			EMGW_SYSGEN_203			EMGW_SYSGEN_204			EMGW_SYSGEN_206		
TASK:		GWMON			GWMON			GWMON			GWMON			GWMON		
LAB:		NET			NET			NET			IT			NET		
WELL OR BORING NUMBER:		1080			1080			1080			1080			1080		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		15-AUG-90			12-NOV-90			25-FEB-91			26-FEB-91			25-JUL-91		
NORTH COORDINATE:		482229.86			482229.86			482229.86			482229.86			482229.86		
EAST COORDINATE:		1378630.51			1378630.51			1378630.51			1378630.51			1378630.51		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				364.0000		NV	535.0000		NV				519.0000		NV
AMMONIA	MG/L				0.0700		NV	0.0400		NV				0.0200		UNV
CHLORIDE	MG/L	6.0000		NV	4.0000		NV	7.0000		NV				6.0000		NV
FLUORIDE	MG/L	1.0000		NV	0.6600		NV	0.8200		NV				0.8100		NV
NITRATE, AS NITROGEN	MG/L	0.0400		NV				0.0200		UNV				0.0300		NV
NITRATE/NITRITE	MG/L				0.0600		NV									
PH	STD				6.5000		NV	7.0000		NV				7.2000		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV				0.0050		UNV
PHOSPHORUS	MG/L				0.4300		NV	1.6600		NV				0.9500		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM				1120.0000		NV	1210.0000		NV				1170.0000		NV
SULFATE	MG/L	187.0000		NV	216.0000		NV	243.0000		NV				196.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L				898.0000		NV	840.0000		NV				688.0000		NV
TOTAL ORGANIC CARBON	MG/L	3.0000		NV	6.0000		NV	25.0000		NV				13.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0270		NV	0.0230		NV	0.0200		NV				0.0220		NV
INORGANICS																
ALUMINUM	MG/L	0.5000		UNV	13.8000		NV	10.0000		NV				8.1900		NV
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV				0.0200		UNV
ARSENIC	MG/L	0.0130		NV	0.0025		UNV	0.0030		NV				0.0050		UNV
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2350		NV				0.2000		UNV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV				0.0500		UNV
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV				0.0010		UNV
CALCIUM	MG/L	110.0000		NV	8.2000		NV	110.0000		NV				170.0000		NV
CHROMIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0700		NV				0.0020		UNV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV				0.0050		UNV
COPPER	MG/L	0.0250		UNV	0.0250		UNV	0.0360		NV				0.0200		UNV
CYANIDE	MG/L				0.0050		UNV	0.0100		UNV				0.0050		UNV
IRON	MG/L	0.0500		UNV	0.0500		UNV	0.0500		UNV				16.7000		NV
LEAD	MG/L	0.0050		UNV	0.0350		NV	0.0350		NV				0.0050		UNV

SAMPLE NUMBER:	EMGW_SYSGEN_201			EMGW_SYSGEN_202			EMGW_SYSGEN_203			EMGW_SYSGEN_204			EMGW_SYSGEN_206		
LAB:	NET			NET			NET						NET		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-UNF			NONE-UNF			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	66.0000		NV	25.0000		NV	74.0000		NV				48.0000		NV
MANGANESE	MG/L	0.2890		NV	0.0200		UNV	0.8820		NV				0.0330		NV
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV				0.0002		UNV
MOLYBDENUM	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV				0.0100		UNV
NICKEL	MG/L	0.0050		UNV	0.0050		UNV	0.0140		NV				0.0100		UNV
POTASSIUM	MG/L	2.4600		NV	4.6600		NV	4.7300		NV				2.1000		NV
SELENIUM	MG/L	0.0025		UNV	0.0025		UNV	0.0025		UNV				0.0050		UNV
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV				0.0010		UNV
SODIUM	MG/L	18.5000		NV	5.6000		NV	21.3000		NV				13.4000		NV
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV				0.0100		UNV
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.1090		NV				0.0500		UNV
ZINC	MG/L	0.0200		UNV	0.1390		NV	0.0570		NV				0.0270		NV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	1.9700		NV							4.5600		NV			
URANIUM, TOTAL	UG/L	6.6400		NV							5.5500		NV	3.6000		NV
URANIUM-234	PCI/L	2.7800		NV							4.0500		NV			
THORIUM-230	PCI/L	1.8800		NV							0.2200		UNV			
RADIUM-226	PCI/L	1.0000		UNV							1.0000		UNV			
URANIUM-235/236	PCI/L	0.2500		UNV							0.2200		UNV			
THORIUM-232	PCI/L	0.8070		NV							0.9190		NV			
THORIUM, TOTAL	UG/L	7.2800		NV							8.2900		NV			
RADIUM-228	PCI/L	3.0000		UNV							3.0000		UNV			
THORIUM-228	PCI/L	0.8070		NV							1.8700		NV			
NEPTUNIUM-237	PCI/L										0.5000		UNV			
PLUTONIUM-239/240	PCI/L										0.5000		UNV			
PLUTONIUM-238	PCI/L										0.5000		UNV			
TECHNETIUM-99	PCI/L										17.0000		UNV			
RUTHENIUM-106	PCI/L										150.0000		UNV			
CESIUM-137	PCI/L										9.1000		UNV			
GROSS ALPHA	PCI/L										24.3000		NV			
GROSS BETA	PCI/L										37.7000		NV			
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV	10.0000		UNV				10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_201			EMGW_SYSGEN_202			EMGW_SYSGEN_203			EMGW_SYSGEN_204			EMGW_SYSGEN_206		
LAB:		NET			NET			NET						NET		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV				2.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV				2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV				2.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV				2.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV				2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV				1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_207			EMGW_SYSGEN_207D			GW930126-1			GW930417-1			003210		
TASK:		GWMON			GWMON			RCRA			50.03.23			3.2.4		
LAB:		NET			NET			NET			NET			IT		
WELL OR BORING NUMBER:		1080			1080			1080			1080			1081		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		24-OCT-91			24-OCT-91			26-JAN-93			17-APR-93			19-MAY-88		
NORTH COORDINATE:		482229.86			482229.86			482229.86			482229.86			482041.23		
EAST COORDINATE:		1378630.51			1378630.51			1378630.51			1378630.51			1379003.75		
QA TYPE:		NORMAL			DUPLICATE			NORMAL			NORMAL			NORMAL		
QC OF:					EMGW_SYSGEN_207											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	525.0000		NV	529.0000		NV	544.0000		NV	552.0000		-			
ALLYL CHLORIDE	UG/L							5.0000		UNV						
AMMONIA	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0200		UJ	0.1000		U
BICARBONATE ALKALINITY	MG/L							659.0000		NV	720.0000		-			
CARBONATE ALKALINITY	MG/L							3.0000		UNV	3.0000		U			
CHLORIDE	MG/L	5.0000		NV	6.0000		NV	2.0000		NV	7.0000		-	26.9000		J
FLUORIDE	MG/L	0.7400		NV	0.7300		NV	0.8700		NV	0.7700		-	0.8000		-
NITRATE	MG/L							0.1000		NV				56.0000		-
NITRATE, AS NITROGEN	MG/L	0.0400		NV	0.0500		NV									
NITRATE/NITRITE	MG/L										0.0900		-			
NITRITE, AS NITROGEN	MG/L							0.0200		UNV						
PH	STD	7.0600		NV	7.0300		NV	7.0500		NV	7.4400		-			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0100		U	0.0100		U
PHOSPHORUS	MG/L	0.3500		NV	0.5300		NV	0.1000		UNV	0.3900		J	0.7500		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	1180.0000		NV	1190.0000		NV	1350.0000		NV	1100.0000		-			
SULFATE	MG/L	198.0000		NV	204.0000		NV	253.0000		NV	218.0000		J	590.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	788.0000		NV	772.0000		NV	786.0000		NV	806.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										0.2900		-			
TOTAL ORGANIC CARBON	MG/L	25.0000		NV	22.0000		NV	21.0000		NV	23.0000		-			
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV						
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0200		NV				0.0140		-			
TOTAL ORGANIC NITROGEN	MG/L										0.2900		-	0.1000		U
TOTAL SOLIDS	MG/L							820.0000		NV	815.0000		-			
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.3120		J			
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0616		-			
ARSENIC	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0020		U	0.2000		U
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2300		NV	0.0431		-	0.0500		U

SAMPLE NUMBER:	EMGW_SYSGEN_207			EMGW_SYSGEN_207D			GW930126-1			GW930417-1			003210		
LAB:	NET			NET			NET			NET			IT		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-UNF			NONE-UNF			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
BERYLLIUM MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0010		U			
CADMIUM MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0030		U	0.0050		U
CALCIUM MG/L	118.0000		NV	141.0000		NV	139.0000		NV	146.0000		-	230.3000		-
CHROMIUM MG/L	0.0020		UNV	0.0046		NV	0.0039		NV	0.0050		U	0.0200		U
COBALT MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0089		-			
COPPER MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0061		U	0.0100		U
CYANIDE MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0100		UJ			
IRON MG/L	1.1300		NV	0.1000		UNV	0.1300		NV	0.3760		J	0.2300		-
LEAD MG/L	0.0030		UNV	0.0030		UNV	0.0030		UNV	0.0010		U	0.0500		U
MAGNESIUM MG/L	52.0000		NV	78.0000		NV	79.9000		NV	77.2000		-	91.6000		-
MANGANESE MG/L	0.0320		NV	0.0260		NV	0.0150		UNV	0.0200		-	0.0410		-
MERCURY MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		U	0.0002		U
MOLYBDENUM MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV				0.0200		U
NICKEL MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0200		U	0.0200		U
POTASSIUM MG/L	1.9000		NV	2.1000		NV	2.2000		NV	2.3700		-	2.9800		-
SELENIUM MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0010		UJ	0.2000		U
SILVER MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0070		U	0.0100		U
SODIUM MG/L	13.1000		NV	13.0000		NV	32.0000		NV	31.4000		-	46.1000		-
THALLIUM MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0020		UJ			
VANADIUM MG/L	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0030		U			
ZINC MG/L	0.0560		NV	0.1030		NV	0.0200		UNV	0.0085		U			
MISC															
1,2,3-TRICHLOROPROPANE UG/L							5.0000		UNV						
1,2-DIBROMO-3-CHLOROPROPANE UG/L							2.0000		UNV						
1,2-DIBROMOETHANE UG/L							2.0000		UNV						
2-CHLORO-1,3-BUTADIENE UG/L							5.0000		UNV						
ACROLEIN UG/L							50.0000		UNV						
ACROLEIN UG/L							50.0000		UNV						
ACRYLONITRILE UG/L							50.0000		UNV						
DICHLORODIFLUOROMETHANE UG/L							10.0000		UNV						
ETHYL CYANIDE UG/L							20.0000		UNV						
ETHYL METHACRYLATE UG/L							5.0000		UNV						
IODOMETHANE UG/L							5.0000		UNV						
METHACRYLONITRILE UG/L							5.0000		UNV						
METHYL METHACRYLATE UG/L							5.0000		UNV						
PENTACHLOROETHANE UG/L							5.0000		UNV						
TRANS-1,2-DICHLOROETHENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
TRANS-1,4-DICHLORO-2-BUTENE UG/L							20.0000		UNV						
RADIONUCLIDES															
URANIUM-238 PCI/L										1.6000	.3	J	6.6000		-
URANIUM, TOTAL UG/L	3.2000		NV	3.6000		NV	4.2000		NV	5.4000		NV	26.0000		-

SAMPLE NUMBER:		EMGW_SYSGEN_207			EMGW_SYSGEN_207D			GW930126-1			GW930417-1			003210		
LAB:		NET			NET			NET			NET					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U			
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U			
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV						
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U			
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003520			003764			003948			066432			066496	
TASK:		3.2.4			3.2.4			3.2.4			9.25			9.25	
LAB:		IT			IT			IT			IT			IT	
WELL OR BORING NUMBER:		1081			1081			1081			1081			1081	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		22-AUG-88			20-NOV-88			05-FEB-89			18-JUN-89			13-AUG-89	
NORTH COORDINATE:		482041.23			482041.23			482041.23			482041.23			482041.23	
EAST COORDINATE:		1379003.75			1379003.75			1379003.75			1379003.75			1379003.75	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
AMMONIA	MG/L	0.1000		UJ	0.1400		J	0.1000		U					
CHLORIDE	MG/L	17.5000		-	3.0000		-	35.0000		-	30.0000		-	34.0000	-
FLUORIDE	MG/L	0.9600		J	0.7400		-	0.3900		J	0.4150		-	0.4900	-
NITRATE	MG/L	27.5000		J	11.7000		-	21.5000		J	19.6000		J	14.9000	-
PHENOLS	MG/L	0.0200		-	0.0100		U	0.0100		R					
PHOSPHORUS	MG/L	0.5250		J	5.2800		-	2.7900		J					
SULFATE	MG/L	355.0000		J	604.0000		-	598.0000		-	563.0000		-	384.0000	J
TOTAL KJELDAHL NITROGEN	MG/L				0.9500		J	0.1000		UJ					
TOTAL ORGANIC CARBON	MG/L										4.9200		UJ	1.2800	-
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0500		U	0.0100		UJ	0.0210	-
TOTAL ORGANIC NITROGEN	MG/L	0.1000		J	0.8100		J	0.1000		UJ					
INORGANICS															
ALUMINUM	MG/L										0.1970		-	0.2810	-
ARSENIC	MG/L	0.0020		U	0.0020		UJ	0.0030		-					
BARIUM	MG/L	0.0320		-	0.0310		-	0.0390		-	0.0320		-	0.0400	-
BERYLLIUM	MG/L										0.0013		-	0.0017	U
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0150		-					
CALCIUM	MG/L	228.0000		-	223.0000		-	230.0000		-	250.0000		-	292.0000	-
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0430		-	0.0500		-	0.0420	-
COBALT	MG/L										0.0100		U	0.0100	U
COPPER	MG/L	0.0100		U	0.0100		U	0.0230		-	0.0100		U	0.0100	U
IRON	MG/L	0.0050		U	0.1250		J	0.0620		-	0.0822		-	0.2111	-
LEAD	MG/L	0.0020		UJ	0.0020		U	0.0020		UJ	0.0025		-	0.0040	-
MAGNESIUM	MG/L	96.8000		-	86.3000		-	90.1000		-	96.0000		-	108.6000	-
MANGANESE	MG/L	0.0030		-	0.0120		-	0.0150		-					
MERCURY	MG/L	0.0002		UJ	0.0002		U	0.0010		-					
MOLYBDENUM	MG/L	0.0200		U	0.0360		-	0.0200		U					
NICKEL	MG/L	0.0200		U	0.0200		U	0.0370		-	0.0271		-	0.0365	-

001088

8704

SAMPLE NUMBER:		003520			003764			003948			066432			066496		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L	3.3000		-	3.3800		-	2.5800		J						
SELENIUM	MG/L	0.0020		UJ	0.0020		J	0.0020		UJ						
SILVER	MG/L	0.0100		U	0.0005		U	0.0005		U	0.0132		-	0.0132		-
SODIUM	MG/L	34.8000		-	138.0000		-	161.0000		-						
VANADIUM	MG/L										0.0390		-	0.0410		-
ZINC	MG/L										0.0179		-	0.0401		-
RADIONUCLIDES																
URANIUM-238	PCI/L	7.1000	1	J	34.8000	4.5	-	34.9000	5.6	-	19.2000	2.5	-	18.1000	2.4	-
URANIUM, TOTAL	UG/L	19.00003		-	93.0000	15	-	94.0000	16	-	56.0000	9	-	43.0000	9	-
URANIUM-234	PCI/L	6.9000	1	J	17.6000	2.4	-	16.4000	3	-	11.1000	1.5	-	11.3000	1.6	-
THORIUM-230	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		UJ	1.0000		U	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000	.5	J	1.0000		U	1.0000		U						
THORIUM, TOTAL	UG/L	9.0000	4	J	7.0000		U	5.0000	2	-						
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ	3.0000		UJ						
THORIUM-228	PCI/L	1.4000	.6	J	1.0000		U	1.0000		U	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		U	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		UJ	30.0000		UJ	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
VOLATILES																
1,1-DICHLOROETHANE	UG/L										5.0000		U	5.0000		U
ACETONE	UG/L										10.0000		U	10.0000		U
METHYLENE CHLORIDE	UG/L										9.0000		U	5.0000		U
TETRACHLOROETHENE	UG/L										5.0000		U	5.0000		U
TOLUENE	UG/L										5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L										5.0000		U	5.0000		U

SAMPLE NUMBER:	066676			066677			EMGW_SYSGEN_210			EMGW_SYSGEN_211			EMGW_SYSGEN_212		
LAB:				WMCO			NET			NET			NET		
SUFFIX/FILTERFLAG:	-			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L										4.0400		NV	2.7400		NV
SELENIUM	MG/L										0.0025		UNV	0.0025		UNV
SILVER	MG/L				0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L				54.6000		NV	70.2000		NV	51.9000		NV	46.1000		NV
THALLIUM	MG/L										0.0100		UNV	0.0100		UNV
VANADIUM	MG/L				0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC	MG/L				0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV
MISC																
3-METHYLPHENOL	UG/L										4.0000		UNV			
DIPHENYLAMINE	UG/L										15.0000		UNV			
PESTICIDES																
4,4'-DDD	UG/L										0.2000		UNV			
4,4'-DDE	UG/L										0.2000		UNV			
4,4'-DDT	UG/L										0.2000		UNV			
ALDRIN	UG/L										0.2000		UNV			
ALPHA-BHC	UG/L										0.2000		UNV			
AROCLOR-1016	UG/L										0.2000		UNV			
AROCLOR-1221	UG/L										0.2000		UNV			
AROCLOR-1232	UG/L										0.2000		UNV			
AROCLOR-1242	UG/L										0.2000		UNV			
AROCLOR-1248	UG/L										0.2000		UNV			
AROCLOR-1254	UG/L										0.2000		UNV			
AROCLOR-1260	UG/L										0.2000		UNV			
BETA-BHC	UG/L										0.2000		UNV			
CHLORDANE	UG/L										0.2000		UNV			
DELTA-BHC	UG/L										0.2000		UNV			
DIELDRIN	UG/L										0.2000		UNV			
ENDOSULFAN II	UG/L										0.2000		UNV			
ENDOSULFAN SULFATE	UG/L										0.2000		UNV			
ENDOSULFAN-I	UG/L										0.2000		UNV			
ENDRIN	UG/L										0.0800		UNV			
ENDRIN ALDEHYDE	UG/L										0.2000		UNV			
GAMMA-BHC (LINDANE)	UG/L										0.2000		UNV			
HEPTACHLOR	UG/L										0.2000		UNV			
HEPTACHLOR EPOXIDE	UG/L										0.2000		UNV			
TOXAPHENE	UG/L										0.5000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	14.60001.9		R				13.5000		NV	9.3000		NV	6.2300		NV
URANIUM, TOTAL	UG/L	32.00005		R				40.5000		NV	27.9000		NV	17.3000		NV

001090

5704

SAMPLE NUMBER:		066676			066677			EMGW_SYSGEN_210			EMGW_SYSGEN_211			EMGW_SYSGEN_212		
LAB:		IT						IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L	9.5000	1.3	R				10.5000		NV	8.0900		NV	7.4000		NV
THORIUM-230	PCI/L	1.0000		R				1.0000		UNV	3.3400		NV	0.3200		UNV
RADIUM-226	PCI/L										1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L	1.0000		R							0.5550		NV	0.3400		UNV
THORIUM-232	PCI/L	1.0000		R							0.5800		UNV	0.3200		UNV
THORIUM, TOTAL	UG/L										5.3000		UNV	2.9000		UNV
RADIUM-228	PCI/L										3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L	1.4000	.5	R				1.0000		UNV	0.5800		UNV	0.5220		NV
TECHNETIUM-99	PCI/L	30.0000		R				17.0000		UNV						
GROSS ALPHA	PCI/L										565.0000		NV	18.2000		NV
GROSS BETA	PCI/L										490.0000		NV	12.0000		UNV
URANIUM-235	PCI/L							1.0000		UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										4.0000		UNV			
1,3-DICHLOROBENZENE	UG/L										4.0000		UNV			
1,4-DICHLOROBENZENE	UG/L										4.0000		UNV			
2,4,5-TRICHLOROPHENOL	UG/L										4.0000		UNV			
2,4,6-TRICHLOROPHENOL	UG/L										4.0000		UNV			
2,4-DICHLOROPHENOL	UG/L										4.0000		UNV			
2,4-DIMETHYLPHENOL	UG/L										4.0000		UNV			
2,4-DINITROPHENOL	UG/L										4.0000		UNV			
2,4-DINITROTOLUENE	UG/L										15.0000		UNV			
2,6-DINITROTOLUENE	UG/L										15.0000		UNV			
2-CHLORONAPHTHALENE	UG/L										4.0000		UNV			
2-CHLOROPHENOL	UG/L										4.0000		UNV			
2-METHYLPHENOL	UG/L										4.0000		UNV			
2-NITROANILINE	UG/L										15.0000		UNV			
2-NITROPHENOL	UG/L										4.0000		UNV			
3,3'-DICHLOROBENZIDINE	UG/L										15.0000		UNV			
3-NITROANILINE	UG/L										15.0000		UNV			
4,6-DINITRO-2-METHYLPHENOL	UG/L										4.0000		UNV			
4-BROMOPHENYL PHENYL ETHER	UG/L										15.0000		UNV			
4-CHLORO-3-METHYLPHENOL	UG/L										4.0000		UNV			
4-CHLOROPHENYLPHENYL ETHER	UG/L										15.0000		UNV			
4-NITROANILINE	UG/L										15.0000		UNV			
4-NITROPHENOL	UG/L										4.0000		UNV			
ACENAPHTHYLENE	UG/L										4.0000		UNV			
ANTHRACENE	UG/L										4.0000		UNV			
BENZO(A)ANTHRACENE	UG/L										4.0000		UNV			
BENZO(A)PYRENE	UG/L										4.0000		UNV			
BENZO(B)FLUORANTHENE	UG/L										4.0000		UNV			
BENZO(G,H,I)PERYLENE	UG/L										4.0000		UNV			
BENZO(K)FLUORANTHENE	UG/L										4.0000		UNV			

SAMPLE NUMBER:	066676			066677			EMGW_SYSGEN_210			EMGW_SYSGEN_211			EMGW_SYSGEN_212		
LAB:										NET					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZOIC ACID UG/L										4.0000		UNV			
BENZYL ALCOHOL UG/L										40.0000		UNV			
BIS(2-CHLOROETHOXY)METHANE UG/L										15.0000		UNV			
BIS(2-CHLOROETHYL)ETHER UG/L										15.0000		UNV			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										15.0000		UNV			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										4.0000		UNV			
BUTYL BENZYL PHTHALATE UG/L										4.0000		UNV			
CHRYSENE UG/L										4.0000		UNV			
DI-N-BUTYL PHTHALATE UG/L										4.0000		UNV			
DIBENZO(A,H)ANTHRACENE UG/L										4.0000		UNV			
DIBENZOFURAN UG/L										4.0000		UNV			
DIETHYL PHTHALATE UG/L										4.0000		UNV			
DIMETHYL PHTHALATE UG/L										4.0000		UNV			
FLUORANTHENE UG/L										4.0000		UNV			
FLUORENE UG/L										4.0000		UNV			
HEXACHLOROBENZENE UG/L										4.0000		UNV			
HEXACHLOROBUTADIENE UG/L										4.0000		UNV			
HEXACHLOROCYCLOPENTADIENE UG/L										4.0000		UNV			
HEXACHLOROETHANE UG/L										4.0000		UNV			
INDENO(1,2,3-CD)PYRENE UG/L										4.0000		UNV			
ISOPHORONE UG/L										4.0000		UNV			
N-NITROSO-DI-N-PROPYLAMINE UG/L										4.0000		UNV			
N-NITROSODIPHENYLAMINE UG/L										4.0000		UNV			
NAPHTHALENE UG/L										4.0000		UNV			
NITROBENZENE UG/L										4.0000		UNV			
P-CHLOROANILINE UG/L										4.0000		UNV			
PENTACHLOROPHENOL UG/L										4.0000		UNV			
PHENANTHRENE UG/L										4.0000		UNV			
PHENOL MG/L										4.0000		UNV			
PYRENE UG/L										4.0000		UNV			
PYRIDINE UG/L										4.0000		UNV			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE UG/L										1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE UG/L										1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE UG/L										1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL) UG/L										1.0000		UNV			
1,2-DICHLOROPROPANE UG/L										1.0000		UNV	1.0000		UNV
2-BUTANONE UG/L										2.0000		UNV	2.0000		UNV
2-HEXANONE UG/L										2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE UG/L										2.0000		UNV	2.0000		UNV

001092

5704

SAMPLE NUMBER:	066676	066677	EMGW_SYSGEN_210	EMGW_SYSGEN_211 NET NONE-UNF	EMGW_SYSGEN_212 NET NONE-UNF
LAB:					
SUFFIX/FILTERFLAG:	-	-	-		

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ACETONE	UG/L				2.5000		UNV	2.0000		UNV	2.1000		NV	2.0000		UNV
BENZENE	UG/L										1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L										1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L										1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L										1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L										1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
STYRENE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L										1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L				2.5000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L										2.0000		UNV	2.0000		UNV
VINYL ACETATE	UG/L										1.0000		UNV	1.0000		UNV
VINYL CHLORIDE	UG/L										1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L															

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_213			EMGW_SYSGEN_214			EMGW_SYSGEN_216			EMGW_SYSGEN_217			GW930105-3		
TASK:		GWMON			GWMON			GWMON			GWMON			RCRA		
LAB:		NET			NET			NET			NET			NET		
WELL OR BORING NUMBER:		1081			1081			1081			1081			1081		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		12-NOV-90			06-FEB-91			10-JUL-91			17-OCT-91			05-JAN-93		
NORTH COORDINATE:		482041.23			482041.23			482041.23			482041.23			482041.23		
EAST COORDINATE:		1379003.75			1379003.75			1379003.75			1379003.75			1379003.75		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	295.0000		NV	662.0000		NV	708.0000		NV	552.0000		NV	597.0000		NV
ALLYL CHLORIDE	UG/L													5.0000		UNV
AMMONIA	MG/L	0.0200		UNV	0.0700		NV	0.0200		UNV	0.0400		NV	0.0200		UNV
BICARBONATE ALKALINITY	MG/L													848.0000		NV
CARBONATE ALKALINITY	MG/L													3.0000		UNV
CHLORIDE	MG/L	36.0000		NV	37.0000		NV	40.0000		NV	37.0000		NV	36.0000		NV
FLUORIDE	MG/L	0.3800		NV	0.2800		NV	0.2500		NV	0.3500		NV	0.3100		NV
NITRATE	MG/L													5.0800		NV
NITRATE, AS NITROGEN	MG/L				11.1000		NV	10.1000		NV	7.4000		NV			
NITRATE/NITRITE	MG/L	11.4000		NV												
NITRITE, AS NITROGEN	MG/L													0.0200		UNV
PH	STD	6.5200		NV	7.0200		NV	6.9800		NV	6.7900		NV	6.9800		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0100		UNV
PHOSPHORUS	MG/L	0.2600		NV	0.2600		NV	0.1300		NV	0.2900		NV	0.2600		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM	1890.0000		NV	1870.0000		NV	1850.0000		NV	1790.0000		NV	2170.0000		NV
SULFATE	MG/L	396.0000		NV	588.0000		NV	642.0000		NV	521.0000		NV	588.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L	1500.0000		NV	1470.0000		NV	1360.0000		NV	1260.0000		NV	1540.0000		NV
TOTAL ORGANIC CARBON	MG/L	7.0000		NV	23.0000		NV	21.0000		NV	44.0000		NV	9.0000		NV
TOTAL ORGANIC HALIDES	MG/L													0.0300		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0290		NV	0.0700		NV	0.0490		NV	0.0340		NV			
TOTAL SOLIDS	MG/L													1550.0000		NV
INORGANICS																
ALUMINUM	MG/L	0.5000		UNV	1.3100		NV	0.2000		UNV	0.4500		NV	0.2000		UNV
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV
ARSENIC	MG/L	0.0025		UNV	0.0025		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
BARIUM	MG/L	0.2000		UNV	0.4000		UNV	0.2000		UNV	0.2000		UNV	0.2000		UNV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0500		UNV	0.0050		UNV	0.0050		UNV
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV

001094

5204

SAMPLE NUMBER:		EMGW_SYSGEN_213			EMGW_SYSGEN_214			EMGW_SYSGEN_216			EMGW_SYSGEN_217			GW930105-3		
LAB:		NET			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CALCIUM	MG/L	193.0000		NV	167.0000		NV	230.0000		NV	160.0000		NV	287.0000		NV
CHROMIUM	MG/L	0.0790		NV	0.0050		UNV	0.0117		NV	0.0263		NV	0.0037		NV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
COPPER	MG/L	0.0250		UNV	0.0250		UNV	0.0200		NV	0.0200		NV	0.0200		UNV
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
IRON	MG/L	1.7700		NV	3.8300		NV	0.4000		NV	0.8220		NV	0.1000		UNV
LEAD	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0030		UNV	0.0030		UNV
MAGNESIUM	MG/L	66.0000		NV	60.0000		NV	83.0000		NV	102.0000		NV	104.0000		NV
MANGANESE	MG/L	0.0540		NV	0.0750		NV	0.0270		NV	0.0150		UNV	0.0150		UNV
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L	0.0250		UNV	0.0250		UNV	0.0100		UNV	0.0100		NV	0.0100		UNV
NICKEL	MG/L	0.0050		UNV	0.0120		NV	0.0100		UNV	0.0120		NV	0.0100		UNV
POTASSIUM	MG/L	2.9100		NV	4.7600		NV	2.6000		NV	2.8000		NV	3.0000		NV
SELENIUM	MG/L	0.0025		UNV	0.0025		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L	50.1000		NV	58.6000		NV	55.0000		NV	48.0000		NV	68.0000		NV
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC	MG/L	0.0250		NV	0.0200		UNV	0.0270		NV	0.0710		NV	0.0200		UNV
MISC																
1,2,3-TRICHLOROPROPANE	UG/L													5.0000		UNV
1,2-DIBROMO-3-CHLOROPROPANE	UG/L													2.0000		UNV
1,2-DIBROMOETHANE	UG/L													2.0000		UNV
2-CHLORO-1,3-BUTADIENE	UG/L													5.0000		UNV
ACROLEIN	UG/L													50.0000		UNV
ACROLEIN	UG/L													50.0000		UNV
ACRYLONITRILE	UG/L													50.0000		UNV
DICHLORODIFLUOROMETHANE	UG/L													10.0000		UNV
ETHYL CYANIDE	UG/L													20.0000		UNV
ETHYL METHACRYLATE	UG/L													5.0000		UNV
IODOMETHANE	UG/L													5.0000		UNV
METHACRYLONITRILE	UG/L													5.0000		UNV
METHYL METHACRYLATE	UG/L													5.0000		UNV
PENTACHLOROETHANE	UG/L													5.0000		UNV
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,4-DICHLORO-2-BUTENE	UG/L													20.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	34.4000		NV	7.2900		NV									
URANIUM, TOTAL	UG/L	18.1000		NV	16.7000		NV	16.0000		NV	17.0000		NV	27.0000		NV
URANIUM-234	PCI/L	23.5000		NV	5.2700		NV									
THORIUM-230	PCI/L	0.7500		NV	0.7800		UNV							0.4000	.2	NV

SAMPLE NUMBER:	EMGW_SYSGEN_213				EMGW_SYSGEN_214			EMGW_SYSGEN_216			EMGW_SYSGEN_217			GW930105-3		
LAB:	IT				IT									CORE		
SUFFIX/FILTERFLAG:	NONE-UNF				NONE-UNF			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV							1.0000	.2	UNV
URANIUM-235/236	PCI/L	1.1200		NV	0.2660		NV									
THORIUM-232	PCI/L	0.4800		UNV	0.7800		UNV							0.2000	.1	UNV
THORIUM, TOTAL	UG/L	4.3000		UNV	7.0000		UNV							0.9000		NV
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV							3.0000	1.1	UNV
THORIUM-228	PCI/L	2.1100		NV	0.8110		NV							0.2000	.1	UNV
NEPTUNIUM-237	PCI/L	0.5000		UNV	0.5000		UNV									
PLUTONIUM-239/240	PCI/L	0.5000		UNV	0.5000		UNV							0.5000	.3	UNV
PLUTONIUM-238	PCI/L	0.8190		NV	0.5000		UNV							0.5000	.2	UNV
TECHNETIUM-99	PCI/L	17.0000		UNV	15.0000		UNV									
RUTHENIUM-106	PCI/L	150.0000		UNV	150.0000		UNV									
CESIUM-137	PCI/L	7.3000		UNV	8.1000		UNV									
GROSS ALPHA	PCI/L	20.0000		UNV	37.1000		NV							8.6000	7.3	NV
GROSS BETA	PCI/L	27.2000		NV	15.6000		NV							8.9000	7.7	NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV	10.0000		UNV	10.0000		UNV
CUMENE	UG/L													1.0000		UNV
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		GW930413-12			003209			003521			003765			003949			
TASK:		50.03.23			3.2.4			3.2.4			3.2.4			3.2.4			
LAB:		NET			IT			IT			IT			IT			
WELL OR BORING NUMBER:		1081			1082			1082			1082			1082			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		13-APR-93			19-MAY-88			22-AUG-88			20-NOV-88			05-FEB-89			
NORTH COORDINATE:		482041.23			482011.44			482011.44			482011.44			482011.44			
EAST COORDINATE:		1379003.75			1379087.2			1379087.2			1379087.2			1379087.2			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
ALKALINITY AS CACO3	MG/L	652.0000		-													
AMMONIA	MG/L	0.0200		UR	0.1000		J				0.1000		UJ	0.1000		U	
BICARBONATE ALKALINITY	MG/L	781.0000		-													
CARBONATE ALKALINITY	MG/L	3.0000		U													
CHLORIDE	MG/L	38.0000		-	23.8000		J				2.0000		-	19.0000		-	
FLUORIDE	MG/L	0.3500		-	1.1000		-				1.2500		-	0.7200		J	
NITRATE	MG/L				0.2000		-				0.1000		U	0.1000		UJ	
NITRATE/NITRITE	MG/L	5.3600		-													
PH	STD	7.0900		-													
PHENOLS	MG/L	0.0100		U	0.0100		U				0.0100		U	0.0140		R	
PHOSPHORUS	MG/L	0.1100		R	0.1200		-				3.7900		-	0.6500		J	
SPECIFIC CONDUCTIVITY	UMHOS/CM	1910.0000		-													
SULFATE	MG/L	520.0000		-	298.0000		-				510.0000		-	211.0000		-	
TOTAL DISSOLVED SOLIDS	MG/L	1580.0000		-													
TOTAL KJELDAHL NITROGEN	MG/L	0.2200		-							0.9900		J	0.5320		J	
TOTAL ORGANIC CARBON	MG/L	19.0000		J													
TOTAL ORGANIC HALIDES	MG/L										0.0500		U	0.0500		U	
TOTAL ORGANIC HALOGENS	MG/L	0.0270		-													
TOTAL ORGANIC NITROGEN	MG/L	0.2200		-	0.1000		J				0.9900		J	0.5320		-	
TOTAL SOLIDS	MG/L	1570.0000		-													
INORGANICS																	
ALUMINUM	MG/L	0.0654		U													
ANTIMONY	MG/L	0.0450		U													
ARSENIC	MG/L	0.0020		U	0.2000		U				0.0020		UJ	0.0020		U	
BARIUM	MG/L	0.0306		-	0.0530		-				0.0440		-	0.0770		-	
BERYLLIUM	MG/L	0.0010		U													
CADMIUM	MG/L	0.0030		U	0.0050		U				0.0020		U	0.0110		-	
CALCIUM	MG/L	276.0000		-	129.8000		-				129.0000		-	143.0000		-	

SAMPLE NUMBER:	GW930413-12			003209			003521			003765			003949		
LAB:	NET			IT						IT			IT		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CHROMIUM	MG/L	0.0050		U	0.0200		U				0.0200		U	0.0390		-
COBALT	MG/L	0.0111		-												
COPPER	MG/L	0.0087		U	0.0100		U				0.0100		U	0.0180		-
CYANIDE	MG/L	0.0100		UJ												
IRON	MG/L	0.0567		U	0.1200		-				0.0150		J	0.0620		-
LEAD	MG/L	0.0024		UJ	0.0500		U				0.0020		U	0.0020		UJ
MAGNESIUM	MG/L	100.0000		-	69.0000		-				65.0000		-	72.8000		-
MANGANESE	MG/L	0.0478		-	0.0200		-				0.0080		-	0.0100		-
MERCURY	MG/L	0.0002		U	0.0002		U				0.0002		U	0.0012		-
MOLYBDENUM	MG/L				0.0430		-				0.0330		-	0.0200		U
NICKEL	MG/L	0.0200		U	0.0200		U				0.0200		U	0.0340		-
POTASSIUM	MG/L	2.6100		-	2.3300		-				2.4200		-	2.0100		J
SELENIUM	MG/L	0.0010		UJ	0.2000		U				0.0020		J	0.0020		UJ
SILVER	MG/L	0.0070		U	0.0100		U				0.0005		U	0.0005		U
SODIUM	MG/L	52.1000		-	14.7000		-				13.3000		-	15.4000		-
THALLIUM	MG/L	0.0100		UJ												
VANADIUM	MG/L	0.0030		U												
ZINC	MG/L	0.0095		U												
RADIONUCLIDES																
URANIUM-238	PCI/L	4.4000	.5	J	374.0000	61	-	434.0000	71	J	463.0000	84	J	270.0000	40	-
URANIUM, TOTAL	UG/L	22.4000	1.6	-	1437.0000	228	-	1300.0000	200	-	1079.0000	175	J	810.0000	133	-
URANIUM-234	PCI/L	4.1000	.4	J	71.6000	13	-	81.1000	14	J	84.0000	16	J	55.1000	8.9	-
THORIUM-230	PCI/L	0.2000	.2	UJ	2.7000	.6	-	1.0000		UJ	0.6000		UJ	1.0000		U
RADIUM-226	PCI/L	1.0000	.3	UJ	1.0000		U	1.0000		UJ	1.0000		UJ	1.0000		U
URANIUM-235/236	PCI/L	0.2000	.2	UJ	6.7000	2	-	8.3000	2.2	J	7.2000	2.4	J	5.0000	1.4	-
THORIUM-232	PCI/L	0.2000	.1	UJ	6.0000	1	-	1.0000		UJ	1.0000		UJ	1.0000		U
THORIUM, TOTAL	UG/L				54.7201	1	NV	4.0000		UJ	5.2000		UJ	8.0000		U
RADIUM-228	PCI/L	3.0000	1.2	U	3.5000	1.2	J	3.0000		U	3.0000	.1	UJ	3.0000		UJ
THORIUM-228	PCI/L	0.2000	.1	UJ	1.0000		U	1.0000		UJ	1.1000	.4	J	1.0000		U
NEPTUNIUM-237	PCI/L				1.0000		U	1.0000		UJ	0.6000		UJ	1.0000		U
PLUTONIUM-239/240	PCI/L				1.0000		U	1.0000		U	0.5000		UJ	1.0000		UJ
PLUTONIUM-238	PCI/L				1.0000		U	1.0000		U	0.5000		UJ	1.0000		UJ
STRONTIUM-90	PCI/L				5.0000		U	5.0000		U	1.2000		UJ	5.0000		U
TECHNETIUM-99	PCI/L	15.0000	7.1	U	67.6000	22.7	J	30.0000		U	26.0000		UJ	30.0000		UJ
RUTHENIUM-106	PCI/L				150.0000		R	150.0000		R	90.0000		R	150.0000		R
CESIUM-137	PCI/L				20.0000		R	20.0000		R	12.0000		R	20.0000		R
GROSS ALPHA	PCI/L	9.9000	5.7	NV												
GROSS BETA	PCI/L	13.9000	7.3	NV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												

SAMPLE NUMBER:		GW930413-12		003209			003521			003765			003949		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		UJ												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		U												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

SAMPLE NUMBER:		066434			066559			066598			066678			066679		
LAB:		IT						IT						WMCO		
SUFFIX/FILTERFLAG:		NONE-FIL			-			NONE-FIL			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COPPER	MG/L	0.0100		U				0.0100		U				0.0400		NV
CYANIDE	MG/L							0.0050		U						
IRON	MG/L	0.2800		-				0.1020		-				18.5000		NV
LEAD	MG/L	0.0020		U				0.0020		U				0.0070		NV
MAGNESIUM	MG/L	79.5000		-				79.1000		-				86.0000		NV
MANGANESE	MG/L							0.0133		-				0.3040		NV
MERCURY	MG/L							0.0002		U						
NICKEL	MG/L	0.0267		-				0.0274		-				0.0320		NV
OSMIUM	MG/L							0.0500		UR						
POTASSIUM	MG/L							1.7700		-						
SELENIUM	MG/L							0.0020		UJ						
SILVER	MG/L	0.0154		-				0.0149		-				0.0010		UNV
SODIUM	MG/L							18.7000		-				28.6000		NV
THALLIUM	MG/L							0.0010		U						
TIN	MG/L							0.0300		UR						
VANADIUM	MG/L	0.0308		-				0.0303		-				0.0500		UNV
ZINC	MG/L	0.0794		-				0.0214		-				0.0730		NV
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							5.0000		U						
1,2,4,5-TETRACHLOROBENZENE	UG/L							10.0000		U						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							10.0000		U						
1,2-DIBROMOETHANE	UG/L							5.0000		U						
1,3,5-TRINITROBENZENE	UG/L							10.0000		U						
1,3-DINITROBENZENE	UG/L							10.0000		U						
1,4-NAPHTHOQUINONE	UG/L							10.0000		U						
1-NAPHTHYLAMINE	UG/L							120.0000		UJ						
2,3,4,6-TETRACHLOROPHENOL	UG/L							10.0000		UR						
2,6-DICHLOROPHENOL	UG/L							10.0000		UR						
2-ACETYLAMINOFLUORENE	UG/L							10.0000		U						
2-CHLORO-1,3-BUTADIENE	UG/L							5.0000		UJ						
2-NAPHTHYLAMINE	UG/L							170.0000		UJ						
2-PICOLINE	UG/L							70.0000		U						
3,3'-DIMETHYLBENZIDINE	UG/L							80.0000		U						
3-CHLOROPROPENE	UG/L							5.0000		UJ						
3-METHYLCHOLANTHRENE	UG/L							30.0000		U						
3-METHYLPHENOL	UG/L							10.0000		UR						
4-AMINOBIPHENYL	UG/L							50.0000		UJ						
4-NITROQUINOLINE-1-OXIDE	UG/L							10.0000		UJ						
5-NITRO-O-TOLUIDINE	UG/L							20.0000		U						
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L							20.0000		U						
A,A-DIMETHYLPHENETHYLAMINE	UG/L							10.0000		UJ						
ACETONITRILE	UG/L							200.0000		U						
ACETOPHENONE	UG/L							10.0000		U						

SAMPLE NUMBER:		066434			066559			066598			066678			066679		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
ACROLEIN	UG/L							10.0000		U						
ACROLEIN	UG/L							10.0000		U						
ACRYLONITRILE	UG/L							10.0000		U						
ANILINE	UG/L							10.0000		U						
ARAMITE	UG/L							10.0000		U						
DIALLATE	UG/L							10.0000		U						
DIBROMOMETHANE	UG/L							10.0000		U						
DICHLORODIFLUOROMETHANE	UG/L							200.0000		UR						
DINOSEB	UG/L							20.0000		U						
DIPHENYLAMINE	UG/L							10.0000		U						
ETHYL CYANIDE	UG/L							100.0000		UR						
ETHYL METHACRYLATE	UG/L							20.0000		UJ						
ETHYL METHANESULFONATE	UG/L							10.0000		U						
HEXACHLOROPHENE	UG/L							500.0000		UR						
HEXACHLOROPROPENE	UG/L							20.0000		U						
IODOMETHANE	UG/L							5.0000		U						
ISODRIN	UG/L							0.0500		U						
ISOSAFROLE	UG/L							10.0000		U						
KEPONE	UG/L							0.1000		U						
METHACRYLONITRILE	UG/L							10.0000		UR						
METHAPYRILENE	UG/L							40.0000		U						
METHYL METHACRYLATE	UG/L							10.0000		UJ						
METHYL METHANESULFONATE	UG/L							10.0000		U						
N-NITROSODI-N-BUTYLAMINE	UG/L							20.0000		U						
N-NITROSODIETHYLAMINE	UG/L							10.0000		U						
N-NITROSOMETHYLETHYLAMINE	UG/L							10.0000		U						
N-NITROSOMORPHOLINE	UG/L							10.0000		U						
N-NITROSOPIPERIDINE	UG/L							10.0000		U						
N-NITROSOPYRROLIDINE	UG/L							10.0000		U						
O-TOLUIDINE	UG/L							10.0000		UR						
P-DIMETHYLAMINOAZOBENZENE	UG/L							30.0000		U						
P-PHENYLENEDIAMINE	UG/L							50.0000		UJ						
PENTACHLOROBENZENE	UG/L							20.0000		U						
PENTACHLOROETHANE	UG/L							20.0000		U						
PENTACHLORONITROBENZENE	UG/L							20.0000		U						
PHENACETIN	UG/L							10.0000		U						
PRONAMIDE	UG/L							30.0000		U						
SAFROLE	UG/L							10.0000		U						
TRANS-1,2-DICHLOROETHENE	UG/L							5.0000		U						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L							20.0000		UJ						
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L							1.0000		U						
DISULFOTON	UG/L							1.0000		U						

SAMPLE NUMBER:	066434			066559			066598			066678			066679		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS															
FAMPHUR UG/L							1.0000		U						
METHYL PARATHION UG/L							0.0500		UJ						
PARATHION UG/L							0.0500		U						
PHORATE UG/L							1.0000		U						
THIONAZIN UG/L							1.0000		U						
PESTICIDES															
4,4'-DDD UG/L							0.1000		U						
4,4'-DDE UG/L							0.1000		U						
4,4'-DDT UG/L							0.1000		U						
ALDRIN UG/L							0.0500		U						
ALPHA-BHC UG/L							0.0500		U						
ALPHA-CHLORDANE UG/L							0.5000		U						
AROCLOR-1016 UG/L							0.5000		U						
AROCLOR-1221 UG/L							0.5000		U						
AROCLOR-1232 UG/L							0.5000		U						
AROCLOR-1242 UG/L							0.5000		U						
AROCLOR-1248 UG/L							0.5000		U						
AROCLOR-1254 UG/L							1.0000		U						
AROCLOR-1260 UG/L							1.0000		U						
BETA-BHC UG/L							0.0500		U						
DELTA-BHC UG/L							0.0500		U						
DIELDRIN UG/L							0.1000		U						
ENDOSULFAN II UG/L							0.1000		U						
ENDOSULFAN SULFATE UG/L							0.1000		U						
ENDOSULFAN-I UG/L							0.0500		U						
ENDRIN UG/L							0.1000		U						
ENDRIN KETONE UG/L							0.1000		U						
GAMMA-BHC (LINDANE) UG/L							0.0500		U						
GAMMA-CHLORDANE UG/L							0.5000		U						
HEPTACHLOR UG/L							0.0500		U						
HEPTACHLOR EPOXIDE UG/L							0.0500		U						
METHOXYCHLOR UG/L							0.5000		U						
SULFOTEP UG/L							1.0000		UJ						
TOXAPHENE UG/L							1.0000		U						
RADIONUCLIDES															
URANIUM-238 PCI/L	222.00001		-	154.0000	22	-				194.0000	33	R			
URANIUM, TOTAL UG/L	501.00082		-	467.0000	64	-				465.0000	67	R			
URANIUM-234 PCI/L	43.30009.1		-	33.5000	5.4	-				41.3000	7.7	R			
THORIUM-230 PCI/L	1.0000		U	1.0000		U				1.8300	.76	R			
RADIUM-226 PCI/L	1.1000	.3	J												
URANIUM-235/236 PCI/L	5.9000	2.1	-	3.7000	1.1	-				6.1700	1.78	R			

SAMPLE NUMBER:	066434			066559*		066598			066678			066679		
LAB:						IT								
SUFFIX/FILTERFLAG:	-			-		NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZYL ALCOHOL UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE UG/L							10.0000		U						
BUTYL BENZYL PHTHALATE UG/L							10.0000		U						
CHRYSENE UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE UG/L							10.0000		U						
DIBENZOFURAN UG/L							10.0000		U						
DIETHYL PHTHALATE UG/L							10.0000		U						
DIMETHYL PHTHALATE UG/L							10.0000		U						
FLUORANTHENE UG/L							10.0000		U						
FLUORENE UG/L							10.0000		U						
HEXACHLOROBENZENE UG/L							10.0000		U						
HEXACHLOROBUTADIENE UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE UG/L							10.0000		U						
HEXACHLOROETHANE UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE UG/L							10.0000		U						
ISOPHORONE UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE UG/L							10.0000		U						
N-NITROSODIMETHYLAMINE UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE UG/L							10.0000		U						
NAPHTHALENE UG/L							10.0000		U						
NITROBENZENE UG/L							10.0000		U						
O,O,O-TRIETHYLPHOSPHOROTHIOATE UG/L							10.0000		U						
P-CHLOROANILINE UG/L							10.0000		UJ						
PENTACHLOROPHENOL UG/L							50.0000		UR						
PHENANTHRENE UG/L							10.0000		U						
PHENOL MG/L							10.0000		UR						
PYRENE UG/L							10.0000		U						
PYRIDINE UG/L							50000.0000		U						
VOLATILES															
1,1,1,2-TETRACHLOROETHANE UG/L							5.0000		U						
1,1,1-TRICHLOROETHANE UG/L	5.0000		U				5.0000		U						
1,1,2,2-TETRACHLOROETHANE UG/L	5.0000		U				5.0000		U						
1,1,2-TRICHLOROETHANE UG/L	5.0000		U				5.0000		U						
1,1-DICHLOROETHANE UG/L	5.0000		U				5.0000		U	2.5000		UNV			
1,1-DICHLOROETHENE UG/L	5.0000		U				5.0000		U						
1,2-DICHLOROETHANE UG/L	5.0000		U				5.0000		U	2.5000		UNV			
1,2-DICHLOROETHENE (TOTAL) UG/L	5.0000		U												
1,2-DICHLOROPROPANE UG/L	5.0000		U				5.0000		U						

SAMPLE NUMBER:		066434		066559		066598		066678		066679	
LAB:		IT				IT					
SUFFIX/FILTERFLAG:		NONE-UNF		-		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
2-BUTANONE	UG/L	10.0000	U			10.0000	U				
2-HEXANONE	UG/L	10.0000	U			10.0000	U				
4-METHYL-2-PENTANONE	UG/L	10.0000	U			10.0000	U				
ACETONE	UG/L	10.0000	U			10.0000	UJ			2.5000	UNV
BENZENE	UG/L	5.0000	UJ			5.0000	UJ				
BROMODICHLOROMETHANE	UG/L	5.0000	U			5.0000	U				
BROMOFORM	UG/L	5.0000	U			5.0000	U				
BROMOMETHANE	UG/L	10.0000	U			10.0000	UJ				
CARBON DISULFIDE	UG/L	5.0000	U			5.0000	U				
CARBON TETRACHLORIDE	UG/L	5.0000	U			5.0000	U				
CHLOROBENZENE	UG/L	5.0000	UJ			5.0000	UJ				
CHLOROETHANE	UG/L	10.0000	U			10.0000	UJ				
CHLOROFORM	UG/L	5.0000	U			5.0000	U				
CHLOROMETHANE	UG/L	10.0000	U			10.0000	U				
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U			5.0000	U				
DIBROMOCHLOROMETHANE	UG/L	5.0000	U			5.0000	U				
ETHYLBENZENE	UG/L	5.0000	UJ			5.0000	UJ				
ISOBUTYL ALCOHOL	UG/L					3000.0000	U				
METHYLENE CHLORIDE	UG/L	7.0000	U			5.0000	U			2.5000	UNV
STYRENE	UG/L	5.0000	UJ			5.0000	UJ				
TETRACHLOROETHENE	UG/L	5.0000	U			5.0000	U			2.5000	UNV
TOLUENE	UG/L	5.0000	UJ			5.0000	UJ			2.5000	UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U			5.0000	U				
TRICHLOROETHENE	UG/L	5.0000	U			5.0000	U			2.5000	UNV
TRICHLOROFLUOROMETHANE	UG/L					5.0000	U				
VINYL ACETATE	UG/L	10.0000	U			10.0000	U				
VINYL CHLORIDE	UG/L	10.0000	U			10.0000	U				
XYLENES, TOTAL	UG/L	5.0000	UJ			5.0000	UJ				

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_221	EMGW_SYSGEN_222	EMGW_SYSGEN_223	EMGW_SYSGEN_224	EMGW_SYSGEN_225
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	1082	1082	1082	1082	1082
DEPTH:	-	-	-	-	-
DATE COLLECTED:	15-FEB-90	24-MAY-90	21-AUG-90	12-NOV-90	06-FEB-91
NORTH COORDINATE:	482011.44	482011.44	482011.44	482011.44	482011.44
EAST COORDINATE:	1379087.2	1379087.2	1379087.2	1379087.2	1379087.2
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										327.0000		NV	461.0000		NV
AMMONIA	MG/L										0.1200		NV	0.0300		NV
CHLORIDE	MG/L	33.0000		NV	31.0000		NV	34.0000		NV	37.0000		NV	47.0000		NV
FLUORIDE	MG/L	0.8700		NV	0.9200		NV	0.7000		NV	0.6100		NV	0.6900		NV
NITRATE, AS NITROGEN	MG/L	0.0500		NV	0.0200		NV	0.0200		UNV				0.0200		UNV
NITRATE/NITRITE	MG/L										0.0200		UNV			
PH	STD										6.6300		NV	7.3800		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L										0.1600		NV	0.4600		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM										1310.0000		NV	1240.0000		NV
SULFATE	MG/L	166.0000		NV	19.0000		NV	240.0000		NV	191.0000		NV	255.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L										1140.0000		NV	972.0000		NV
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	33.0000		NV	5.0000		NV	11.0000		NV	17.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0310		NV	0.0100		UNV	0.0230		NV	0.0340		NV
INORGANICS																
ALUMINUM	MG/L	0.9360		NV	0.1940		NV	0.9200		NV	1.7100		NV	4.9600		NV
ANTIMONY	MG/L				0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV
ARSENIC	MG/L	0.0025		UNV	0.0025		UNV	0.0025		UNV	0.0025		UNV	0.0050		NV
BARIUM	MG/L	0.2000		UNV	0.3560		NV	0.2000		UNV	0.2000		UNV	0.2740		NV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L				0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L	163.0000		NV	165.0000		NV	157.0000		NV	92.3000		NV	181.0000		NV
CHROMIUM	MG/L	0.0080		NV	0.0550		NV	0.0060		NV	0.0240		NV	0.0200		NV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV
COPPER	MG/L	0.0250		UNV	0.0270		NV	0.0250		UNV	0.0250		UNV	0.0250		UNV
CYANIDE	MG/L				0.0050		UNV				0.0050		UNV	0.0050		UNV
IRON	MG/L	0.0620		NV	0.1090		NV	1.1500		NV	3.9000		NV	0.0500		UNV
LEAD	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV

001105

SAMPLE NUMBER:		EMGW_SYSGEN_221			EMGW_SYSGEN_222			EMGW_SYSGEN_223			EMGW_SYSGEN_224			EMGW_SYSGEN_225		
LAB:		NET			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	69.0000		NV	52.0000		NV	66.8000		NV	53.0000		NV	86.0000		NV
MANGANESE	MG/L	0.0200		UNV	0.5370		NV	0.0200		UNV	0.1060		NV	0.2460		NV
MERCURY	MG/L				0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L				0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV
NICKEL	MG/L	0.0050		NV	0.0050		UNV	0.0050		UNV	0.0060		NV	0.0050		UNV
POTASSIUM	MG/L				5.9000		NV	2.4800		NV	2.7100		NV	2.3200		NV
SELENIUM	MG/L				0.0025		UNV	0.0025		UNV	0.0025		UNV	0.0025		UNV
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L	26.8000		NV	18.6000		NV	17.3000		NV	8.8000		NV	21.6000		NV
THALLIUM	MG/L				0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC	MG/L	0.0200		UNV	0.0890		NV	0.0200		UNV	0.0290		NV	0.0200		UNV
MISC																
3-METHYLPHENOL	UG/L				4.0000		UNV									
DIPHENYLAMINE	UG/L				15.0000		UNV									
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
PESTICIDES																
4,4'-DDD	UG/L				0.2000		UNV									
4,4'-DDE	UG/L				0.2000		UNV									
4,4'-DDT	UG/L				0.2000		UNV									
ALDRIN	UG/L				0.2000		UNV									
ALPHA-BHC	UG/L				0.2000		UNV									
AROCLOR-1016	UG/L				0.2000		UNV									
AROCLOR-1221	UG/L				0.2000		UNV									
AROCLOR-1232	UG/L				0.2000		UNV									
AROCLOR-1242	UG/L				0.2000		UNV									
AROCLOR-1248	UG/L				0.2000		UNV									
AROCLOR-1254	UG/L				0.2000		UNV									
AROCLOR-1260	UG/L				0.2000		UNV									
BETA-BHC	UG/L				0.2000		UNV									
CHLORDANE	UG/L				0.2000		UNV									
DELTA-BHC	UG/L				0.2000		UNV									
DIELDRIN	UG/L				0.2000		UNV									
ENDOSULFAN II	UG/L				0.2000		UNV									
ENDOSULFAN SULFATE	UG/L				0.2000		UNV									
ENDOSULFAN-I	UG/L				0.2000		UNV									
ENDRIN	UG/L				0.0800		UNV									
ENDRIN ALDEHYDE	UG/L				0.2000		UNV									
GAMMA-BHC (LINDANE)	UG/L				0.2000		UNV									
HEPTACHLOR	UG/L				0.2000		UNV									
HEPTACHLOR EPOXIDE	UG/L				0.2000		UNV									

SAMPLE NUMBER:		EMGW_SYSGEN_221			EMGW_SYSGEN_222			EMGW_SYSGEN_223			EMGW_SYSGEN_224			EMGW_SYSGEN_225		
LAB:					NET											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
TOXAPHENE	UG/L				0.5000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	207.0000		NV	0.2000		UNV	187.0000		NV	181.0000		NV	213.0000		NV
URANIUM, TOTAL	UG/L	617.0000		NV	0.5400		UNV	632.0000		NV	687.0000		NV	553.0000		NV
URANIUM-234	PCI/L	49.2000		NV	0.2560		NV	37.7000		NV	38.4000		NV	46.4000		NV
THORIUM-230	PCI/L	1.0000		UNV	4.3100		NV	0.7560		NV	0.8300		UNV	0.7620		NV
RADIUM-226	PCI/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L				0.2000		UNV	3.6100		NV	3.0100		NV	4.9700		NV
THORIUM-232	PCI/L				1.6100		NV	0.2850		NV	0.8300		UNV	1.6900		NV
THORIUM, TOTAL	UG/L				14.5000		NV	2.8500		NV	7.5000		UNV	15.3000		NV
RADIUM-228	PCI/L				3.0000		UNV	3.0000		UNV	3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L	1.0000		UNV	1.4200		NV	0.5000		NV	0.8300		UNV	0.5700		UNV
NEPTUNIUM-237	PCI/L										0.5000		UNV	0.5000		UNV
PLUTONIUM-239/240	PCI/L										0.5000		UNV	0.5000		UNV
PLUTONIUM-238	PCI/L										0.5000		UNV	0.5000		UNV
TECHNETIUM-99	PCI/L	16.0000		UNV							53.9000		NV	15.0000		UNV
RUTHENIUM-106	PCI/L										150.0000		UNV	150.0000		UNV
CESIUM-137	PCI/L										6.6000		UNV	8.1000		UNV
GROSS ALPHA	PCI/L				301.0000		NV	320.0000		NV	140.0000		NV	251.0000		NV
GROSS BETA	PCI/L				303.0000		NV	295.0000		NV	251.0000		NV	300.0000		NV
URANIUM-235	PCI/L	4.8000		NV												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				4.0000		UNV									
1,3-DICHLOROBENZENE	UG/L				4.0000		UNV									
1,4-DICHLOROBENZENE	UG/L				4.0000		UNV									
2,4,5-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4,6-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DIMETHYLPHENOL	UG/L				4.0000		UNV									
2,4-DINITROPHENOL	UG/L				4.0000		UNV									
2,4-DINITROTOLUENE	UG/L				15.0000		UNV									
2,6-DINITROTOLUENE	UG/L				15.0000		UNV									
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV	10.0000		UNV
2-CHLORONAPHTHALENE	UG/L				4.0000		UNV									
2-CHLOROPHENOL	UG/L				4.0000		UNV									
2-METHYLPHENOL	UG/L				4.0000		UNV									
2-NITROANILINE	UG/L				15.0000		UNV									
2-NITROPHENOL	UG/L				4.0000		UNV									
3,3'-DICHLOROBENZIDINE	UG/L				15.0000		UNV									
3-NITROANILINE	UG/L				15.0000		UNV									
4,6-DINITRO-2-METHYLPHENOL	UG/L				4.0000		UNV									

001107

SAMPLE NUMBER:		EMGW_SYSGEN_221			EMGW_SYSGEN_222			EMGW_SYSGEN_223			EMGW_SYSGEN_224			EMGW_SYSGEN_225		
LAB:					NET											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-BROMOPHENYL PHENYL ETHER	UG/L				15.0000		UNV									
4-CHLORO-3-METHYLPHENOL	UG/L				4.0000		UNV									
4-CHLOROPHENYLPHENYL ETHER	UG/L				15.0000		UNV									
4-NITROANILINE	UG/L				15.0000		UNV									
4-NITROPHENOL	UG/L				4.0000		UNV									
ACENAPHTHYLENE	UG/L				4.0000		UNV									
ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)PYRENE	UG/L				4.0000		UNV									
BENZO(B)FLUORANTHENE	UG/L				4.0000		UNV									
BENZO(G,H,I)PERYLENE	UG/L				4.0000		UNV									
BENZO(K)FLUORANTHENE	UG/L				4.0000		UNV									
BENZOIC ACID	UG/L				4.0000		UNV									
BENZYL ALCOHOL	UG/L				40.0000		UNV									
BIS(2-CHLOROETHOXY)METHANE	UG/L				15.0000		UNV									
BIS(2-CHLOROETHYL)ETHER	UG/L				15.0000		UNV									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				15.0000		UNV									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				4.0000		UNV									
BUTYL BENZYL PHTHALATE	UG/L				4.0000		UNV									
CHRYSENE	UG/L				4.0000		UNV									
DI-N-BUTYL PHTHALATE	UG/L				4.0000		UNV									
DIBENZO(A,H)ANTHRACENE	UG/L				4.0000		UNV									
DIBENZOFURAN	UG/L				4.0000		UNV									
DIETHYL PHTHALATE	UG/L				4.0000		UNV									
DIMETHYL PHTHALATE	UG/L				4.0000		UNV									
FLUORANTHENE	UG/L				4.0000		UNV									
FLUORENE	UG/L				4.0000		UNV									
HEXACHLOROBENZENE	UG/L				4.0000		UNV									
HEXACHLOROBUTADIENE	UG/L				4.0000		UNV									
HEXACHLOROCYCLOPENTADIENE	UG/L				4.0000		UNV									
HEXACHLOROETHANE	UG/L				4.0000		UNV									
INDENO(1,2,3-CD)PYRENE	UG/L				4.0000		UNV									
ISOPHORONE	UG/L				4.0000		UNV									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				4.0000		UNV									
N-NITROSODIPHENYLAMINE	UG/L				4.0000		UNV									
NAPHTHALENE	UG/L				4.0000		UNV									
NITROBENZENE	UG/L				4.0000		UNV									
P-CHLOROANILINE	UG/L				4.0000		UNV									
PENTACHLOROPHENOL	UG/L				4.0000		UNV									
PHENANTHRENE	UG/L				4.0000		UNV									
PHENOL	MG/L				4.0000		UNV									
PYRENE	UG/L				4.0000		UNV									
PYRIDINE	UG/L				4.0000		UNV									

VOLATILES																				
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
SAMPLE NUMBER:		EMGW_SYSGEN_221			EMGW_SYSGEN_222			EMGW_SYSGEN_223			EMGW_SYSGEN_224			EMGW_SYSGEN_225						
LAB:					NET			NET			NET			NET						
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF						
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)				
VOLATILES																				
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV				
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
2-BUTANONE	UG/L				2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV				
2-HEXANONE	UG/L				2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV				
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV				
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV				
BENZENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
BROMODICHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
BROMOFORM	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
BROMOMETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
CARBON DISULFIDE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
CARBON TETRACHLORIDE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
CHLOROBENZENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
CHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV				
CHLOROFORM	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
CHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
ETHYLBENZENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
STYRENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
VINYL ACETATE	UG/L				2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV				
VINYL CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				
XYLENES, TOTAL	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV				

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_227	EMGW_SYSGEN_228	GW930105-1	GW930413-11	003171
TASK:	GWMON	GWMON	RCRA	50.03.23	3.2.4
LAB:	NET	NET	NET	NET	IT
WELL OR BORING NUMBER:	1082	1082	1082	1082	1083
DEPTH:	-	-	-	-	-
DATE COLLECTED:	10-JUL-91	21-OCT-91	05-JAN-93	13-APR-93	09-MAY-88
NORTH COORDINATE:	482011.44	482011.44	482011.44	482011.44	481804.99
EAST COORDINATE:	1379087.2	1379087.2	1379087.2	1379087.2	1379240.05
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	550.0000		NV	479.0000		NV	449.0000		NV	400.0000		-			
ALLYL CHLORIDE	UG/L							5.0000		UNV						
AMMONIA	MG/L	0.0200		UNV	0.3700		NV	0.1300		NV	0.0200		UR	0.3000		J
BICARBONATE ALKALINITY	MG/L							384.0000		NV	494.0000		-			
CARBONATE ALKALINITY	MG/L							3.0000		UNV	3.0000		U			
CHLORIDE	MG/L	41.0000		NV	40.0000		NV	42.0000		NV	45.0000		-	31.4000		-
FLUORIDE	MG/L	0.4700		NV	0.7200		NV	0.5800		NV	0.4900		-	0.4100		-
NITRATE	MG/L							0.0400		NV				0.3000		-
NITRATE, AS NITROGEN	MG/L	0.0200		UNV	0.0300		NV									
NITRATE/NITRITE	MG/L										0.0200		U			
NITRITE, AS NITROGEN	MG/L							0.0200		UNV						
PH	STD	7.1700		NV	7.1000		NV	7.4400		NV	7.3300		-			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0100		U	0.0100		U
PHOSPHORUS	MG/L	0.1000		UNV	2.1400		NV	0.1000		UNV	0.1000		UR	0.1900		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	1210.0000		NV	1230.0000		NV	1200.0000		NV	1040.0000		-			
SULFATE	MG/L	263.0000		NV	297.0000		NV	170.0000		NV	142.0000		-	185.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	866.0000		NV	646.0000		NV	659.0000		NV	724.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										0.2200		-			
TOTAL ORGANIC CARBON	MG/L	19.0000		NV	39.0000		NV	19.0000		NV	15.0000		J			
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV						
TOTAL ORGANIC HALOGENS	MG/L	0.0130		NV	0.0350		NV				0.0100		U			
TOTAL ORGANIC NITROGEN	MG/L										0.2200		-	3.4000		-
TOTAL SOLIDS	MG/L							712.0000		NV	740.0000		-			
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	4.9800		NV	0.2000		UNV	0.0200		U	0.0474		-
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0450		U	0.0467		U
ARSENIC	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0020		U	0.0019		U
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.0886		-	0.0738		-

SAMPLE NUMBER:		EMGW_SYSGEN_227			EMGW_SYSGEN_228			GW930105-1			GW930413-11			003171		
LAB:		NET			NET			NET			NET			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
BERYLLIUM	MG/L	0.0500		UNV	0.0050		UNV	0.0050		UNV	0.0010		U	0.0024		U
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0030		UJ	0.0007		U
CALCIUM	MG/L	168.0000		NV	209.0000		NV	135.0000		NV	130.0000		-	157.0000		-
CHROMIUM	MG/L	0.0020		UNV	0.0575		NV	0.0038		NV	0.0050		U	0.0017		U
COBALT	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0080		U	0.0052		U
COPPER	MG/L	0.0200		UNV	0.0270		NV	0.0200		UNV	0.0137		U	0.0067		U
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0100		UJ	0.0100		UNV
IRON	MG/L	0.1000		UNV	8.4100		NV	0.3400		NV	0.0466		U	0.0773		-
LEAD	MG/L	0.0050		UNV	0.0062		NV	0.0030		UNV	0.0010		UJ	0.0021		U
MAGNESIUM	MG/L	84.0000		NV	97.0000		NV	63.2000		NV	53.2000		-	47.0000		-
MANGANESE	MG/L	0.0150		UNV	0.0350		NV	0.0150		UNV	0.0010		U	0.0627		-
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		U	0.0002		UNV
MOLYBDENUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV				0.0333		U
NICKEL	MG/L	0.0100		UNV	0.0640		NV	0.0100		UNV	0.0200		U	0.0123		U
POTASSIUM	MG/L	1.9000		NV	2.9000		NV	1.9000		NV	1.2500		-	0.7860		-
SELENIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0010		UJ	0.0018		U
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0070		U	0.0043		U
SODIUM	MG/L	23.0000		NV	20.0000		NV	20.0000		NV	17.6000		-	17.1000		-
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0020		UJ	0.0041		UJ
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0030		U	0.0034		U
ZINC	MG/L	0.0330		NV	0.0510		NV	0.0200		UNV	0.0321		U	0.0269		-
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							5.0000		UNV						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							2.0000		UNV						
1,2-DIBROMOETHANE	UG/L							2.0000		UNV						
2-CHLORO-1,3-BUTADIENE	UG/L							5.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACRYLONITRILE	UG/L							50.0000		UNV						
DICHLORODIFLUOROMETHANE	UG/L							10.0000		UNV						
ETHYL CYANIDE	UG/L							20.0000		UNV						
ETHYL METHACRYLATE	UG/L							5.0000		UNV						
IODOMETHANE	UG/L							5.0000		UNV						
METHACRYLONITRILE	UG/L							5.0000		UNV						
METHYL METHACRYLATE	UG/L							5.0000		UNV						
PENTACHLOROETHANE	UG/L							5.0000		UNV						
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L							20.0000		UNV						
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L													5.0000		UJ
DEMETON	UG/L													1.0000		UJ

001111

SAMPLE NUMBER:	EMGW_SYSGEN_227			EMGW_SYSGEN_228			GW930105-1			GW930413-11			003171		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DIAZINON	UG/L													0.5000		UJ
DISULFOTON	UG/L													0.5000		UJ
ETHION	UG/L													0.5000		UJ
MALATHION	UG/L													1.0000		UJ
METHYL PARATHION	UG/L													1.0000		UJ
PARATHION	UG/L													0.5000		UJ
PESTICIDES																
4,4'-DDD	UG/L													0.1000		UJ
4,4'-DDE	UG/L													0.1000		UJ
4,4'-DDT	UG/L													0.1000		UJ
ALDRIN	UG/L													0.0500		UJ
ALPHA-BHC	UG/L													0.0500		UJ
ALPHA-CHLORDANE	UG/L													1.0000		UJ
AROCLOR-1016	UG/L													0.5000		UJ
AROCLOR-1221	UG/L													0.5000		UJ
AROCLOR-1232	UG/L													0.5000		UJ
AROCLOR-1242	UG/L													0.5000		UJ
AROCLOR-1248	UG/L													0.5000		UJ
AROCLOR-1254	UG/L													1.0000		UJ
AROCLOR-1260	UG/L													1.0000		UJ
BETA-BHC	UG/L													0.0500		UJ
DELTA-BHC	UG/L													0.0500		UJ
DIELDRIN	UG/L													0.1000		UJ
ENDOSULFAN II	UG/L													0.1000		UJ
ENDOSULFAN SULFATE	UG/L													0.5000		UJ
ENDOSULFAN-I	UG/L													0.0500		UJ
ENDRIN	UG/L													0.1000		UJ
ENDRIN KETONE	UG/L													0.5000		UJ
GAMMA-BHC (LINDANE)	UG/L													0.0500		UJ
GAMMA-CHLORDANE	UG/L													0.5000		UJ
HEPTACHLOR	UG/L													0.0500		UJ
HEPTACHLOR EPOXIDE	UG/L													0.0500		UJ
METHOXYCHLOR	UG/L													0.5000		UJ
TOXAPHENE	UG/L													0.5000		UJ
RADIONUCLIDES																
URANIUM-238	PCI/L										241.0000	160	J	34.0000	5.6	-
URANIUM, TOTAL	UG/L	660.0000		NV	660.0000		NV	605.0000		NV	687.0000	48.1	J	94.0000	17	-
URANIUM-234	PCI/L										41.5000	20.8	J	8.7000	1.9	-
THORIUM-230	PCI/L							0.5000	.2	NV	0.2000	.2	UJ	1.0000		U
RADIUM-226	PCI/L							1.0000	.3	UNV	1.0000	.2	UJ	1.0000		U
URANIUM-235/236	PCI/L										4.4000	4.7	J	1.0000		U

001112

5704

SAMPLE NUMBER:		EMGW_SYSGEN_227			EMGW_SYSGEN_228			GW930105-1			GW930413-11			003171		
LAB:											CORE			IT		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-232	PCI/L							0.3000	.2	NV	0.2000	.1	UJ	1.0000		U
THORIUM, TOTAL	UG/L							2.6000		NV						
RADIUM-228	PCI/L							3.0000	1	UNV	3.0000	1.2	U	3.0000		R
THORIUM-228	PCI/L							0.2000	.1	UNV	0.4000	.1	UJ	1.0000		U
NEPTUNIUM-237	PCI/L													1.0000		U
PLUTONIUM-239/240	PCI/L													1.0000		U
PLUTONIUM-238	PCI/L													1.0000		U
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L							273.0000	11.1	NV	81.4000	10.6	J	30.0000		U
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
GROSS ALPHA	PCI/L							131.0000	9.2	NV	249.0000	12.2	NV			
GROSS BETA	PCI/L							235.0000	7.3	NV	309.0000	8.1	NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		UJ
1,2-DICHLOROBENZENE	UG/L													10.0000		UJ
1,3-DICHLOROBENZENE	UG/L													10.0000		UJ
1,4-DICHLOROBENZENE	UG/L													10.0000		UJ
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		UJ
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		UJ
2,4-DICHLOROPHENOL	UG/L													10.0000		UJ
2,4-DIMETHYLPHENOL	UG/L													10.0000		UJ
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		UJ
2,6-DINITROTOLUENE	UG/L													10.0000		UJ
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV						
2-CHLORONAPHTHALENE	UG/L													10.0000		UJ
2-CHLOROPHENOL	UG/L													10.0000		UJ
2-METHYLNAPHTHALENE	UG/L													10.0000		UJ
2-METHYLPHENOL	UG/L													10.0000		UJ
2-NITROANILINE	UG/L													50.0000		UJ
2-NITROPHENOL	UG/L													10.0000		UJ
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		UJ
3-NITROANILINE	UG/L													50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		UJ
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		UJ
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		UJ
4-METHYLPHENOL	UG/L													10.0000		UJ
4-NITROANILINE	UG/L													50.0000		UJ
4-NITROPHENOL	UG/L													50.0000		UJ
ACENAPHTHENE	UG/L													10.0000		UJ
ACENAPHTHYLENE	UG/L													10.0000		UJ

SAMPLE NUMBER:	EMGW_SYSGEN_227			EMGW_SYSGEN_228			GW930105-1			GW930413-11			003171		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
ANTHRACENE UG/L													10.0000		UJ
BENZO(A)ANTHRACENE UG/L													10.0000		UJ
BENZO(A)PYRENE UG/L													10.0000		UJ
BENZO(B)FLUORANTHENE UG/L													10.0000		UJ
BENZO(G,H,I)PERYLENE UG/L													10.0000		UJ
BENZO(K)FLUORANTHENE UG/L													10.0000		UJ
BENZOIC ACID UG/L													50.0000		UJ
BENZYL ALCOHOL UG/L													10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		UJ
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		UJ
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		UJ
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		UJ
BUTYL BENZYL PHTHALATE UG/L													10.0000		UJ
CHRYSENE UG/L													10.0000		UJ
CUMENE UG/L							1.0000		UNV						
DI-N-BUTYL PHTHALATE UG/L													10.0000		UJ
DI-N-OCTYL PHTHALATE UG/L													10.0000		UJ
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		UJ
DIBENZOFURAN UG/L													10.0000		UJ
DIETHYL PHTHALATE UG/L													2.0000		J
DIMETHYL PHTHALATE UG/L													10.0000		UJ
FLUORANTHENE UG/L													10.0000		UJ
FLUORENE UG/L													10.0000		UJ
HEXACHLOROBENZENE UG/L													10.0000		UJ
HEXACHLOROBUTADIENE UG/L													10.0000		UJ
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		UJ
HEXACHLOROETHANE UG/L													10.0000		UJ
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		UJ
ISOPHORONE UG/L													10.0000		UJ
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		UJ
N-NITROSODIPHENYLAMINE UG/L													10.0000		UJ
NAPHTHALENE UG/L													10.0000		UJ
NITROBENZENE UG/L													10.0000		UJ
P-CHLOROANILINE UG/L													10.0000		UJ
PENTACHLOROPHENOL UG/L													50.0000		UJ
PHENANTHRENE UG/L													10.0000		UJ
PHENOL MG/L													10.0000		UJ
PYRENE UG/L													10.0000		UJ
VOLATILES															
1,1,1,2-TETRACHLOROETHANE UG/L							1.0000		UNV						
1,1,1-TRICHLOROETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
1,1,2,2-TETRACHLOROETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
1,1,2-TRICHLOROETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ

SAMPLE NUMBER:		EMGW_SYSGEN_227			EMGW_SYSGEN_228			GW930105-1			GW930413-11			003171		
LAB:		NET			NET			NET			NET			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV				10.0000		U	5.0000		UJ
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ	10.0000		UJ
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		UJ
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U	10.0000		UJ
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U	10.0000		UJ
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U	10.0000		UJ
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		UJ	15.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U	5.0000		UJ
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV				10.0000		UJ
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U	10.0000		UJ
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003519			003763			003950			066433			066516		
TASK:		3.2.4			3.2.4			3.2.4			9.25			9.25		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1083			1083			1083			1083			1083		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		22-AUG-88			20-NOV-88			05-FEB-89			18-JUN-89			13-AUG-89		
NORTH COORDINATE:		481804.99			481804.99			481804.99			481804.99			481804.99		
EAST COORDINATE:		1379240.05			1379240.05			1379240.05			1379240.05			1379240.05		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1000		UJ	0.1000		J	0.1030		-						
CHLORIDE	MG/L	32.5000		-	44.8000		-	37.5000		-	58.0000		-	61.5000		-
FLUORIDE	MG/L	0.5500		J	0.3500		-	0.2400		J	0.3000		-	0.3500		-
NITRATE	MG/L	1.6000		J	9.4100		-	4.3700		J	3.2900		J	2.2700		-
PHENOLS	MG/L	0.0200		-	0.0100		U	0.0100		R						
PHOSPHORUS	MG/L	0.6250		J	0.0690		-	0.0200		J						
SULFATE	MG/L	139.0000		J	127.0000		-	153.0000		-	146.0000		-	153.0000		J
TOTAL KJELDAHL NITROGEN	MG/L				0.9800		J	0.1000		UJ						
TOTAL ORGANIC CARBON	MG/L										2.7600		UJ	1.0000		U
TOTAL ORGANIC HALIDES	MG/L	0.0500		U	0.0500		U	0.0500		U	0.0198		J	0.0120		-
TOTAL ORGANIC NITROGEN	MG/L	0.3000		J	0.8800		J	0.1000		UJ						
INORGANICS																
ALUMINUM	MG/L										0.1920		-	0.1815		-
ARSENIC	MG/L	0.0020		U	0.0020		UJ	0.0020		U						
BARIUM	MG/L	0.0820		-	0.0830		-	0.0850		-	0.0846		-	0.0859		-
BERYLLIUM	MG/L										0.0010		U	0.0019		U
CADMIUM	MG/L	0.0020		U	0.0020		U	0.0110		-						
CALCIUM	MG/L	145.0000		-	141.0000		-	155.0000		-	160.0000		-	165.5000		-
CHROMIUM	MG/L	0.0200		U	0.0200		U	0.0390		-	0.0397		-	0.0331		-
COBALT	MG/L										0.0100		U	0.0100		U
COPPER	MG/L	0.0100		U	0.0100		U	0.0200		-	0.0100		U	0.0100		U
IRON	MG/L	0.0050		U	0.0060		J	0.0730		-	0.1020		-	0.0613		-
LEAD	MG/L	0.0020		UJ	0.0020		U	0.0020		UJ	0.0020		U	0.0030		-
MAGNESIUM	MG/L	48.1000		-	43.5000		-	51.2000		-	51.5000		-	51.9000		-
MANGANESE	MG/L	0.0790		-	0.0540		-	0.0400		-						
MERCURY	MG/L	0.0002		UJ	0.0002		U	0.0004		-						
MOLYBDENUM	MG/L	0.0200		U	0.0260		-	0.0200		U						
NICKEL	MG/L	0.0580		-	0.0200		U	0.0280		-	0.0200		U	0.0234		-

001116

5704

SAMPLE NUMBER:		003519		003763			003950			066433			066516		
LAB:		IT		IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L	2.0000		-	1.4100		-	0.7490		J						
SELENIUM	MG/L	0.0020		UJ	0.0020		UJ	0.0020		UJ						
SILVER	MG/L	0.0100		U	0.0005		U	0.0005		U	0.0139		-	0.0134		-
SODIUM	MG/L	22.0000		-	18.7000		-	20.2000		-						
VANADIUM	MG/L										0.0266		-	0.0249		-
ZINC	MG/L										0.0277		-	0.0259		-
RADIONUCLIDES																
URANIUM-238	PCI/L	27.50003.6		J	24.7000	3.7	-	32.7000	4.3	-	36.5000	4.7	-	36.1000	5.1	-
URANIUM, TOTAL	UG/L	71.000011		-	70.0000	11	-	109.0000	18	-	114.0000	19	-	75.0000	14	-
URANIUM-234	PCI/L	7.6000 1.2		J	5.8000	1.2	-	8.6000	1.4	-	9.3000	1.4	-	10.9000	1.9	-
THORIUM-230	PCI/L	1.0000		UJ	1.0000		U	1.4000	.5	-	1.0000		U	2.9000	.7	-
RADIUM-226	PCI/L	1.0000		UJ	1.0000	.1	U	1.0000		U						
URANIUM-235/236	PCI/L	1.0000		UJ	1.0000	.4	U	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		UJ	1.0000		U	1.0000		U						
THORIUM, TOTAL	UG/L	3.0000 2		J	4.0000		U	5.0000		U						
RADIUM-228	PCI/L	3.0000		U	3.0000		UJ	3.0000		UJ						
THORIUM-228	PCI/L	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U	4.3000	.9	-
NEPTUNIUM-237	PCI/L	1.0000		UJ	1.0000		U	1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		UJ	1.0000		UJ						
STRONTIUM-90	PCI/L	5.0000		UJ	5.0000		U	5.0000		U						
TECHNETIUM-99	PCI/L	284.000B3		-	316.0000	44	-	30.0000		UJ	549.0000	65	-	542.0000	65	-
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R						
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R						
VOLATILES																
1,1-DICHLOROETHANE	UG/L										2.0000		J	5.0000		U
ACETONE	UG/L										10.0000		U	10.0000		U
METHYLENE CHLORIDE	UG/L										9.0000		U	5.0000		U
TETRACHLOROETHENE	UG/L										5.0000		U	5.0000		U
TOLUENE	UG/L										5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L										29.0000		-	5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066680			066681			066744			066745			EMGW_SYSGEN_232		
TASK:	9.27			9.27			9.27			9.27			GWMON		
LAB:	IT			WMCO			IT			WMCO			NET		
WELL OR BORING NUMBER:	1083			1083			1083			1083			1083		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	21-NOV-89			21-NOV-89			21-NOV-89			21-NOV-89			16-FEB-90		
NORTH COORDINATE:	481804.99			481804.99			481804.99			481804.99			481804.99		
EAST COORDINATE:	1379240.05			1379240.05			1379240.05			1379240.05			1379240.05		
QA TYPE:	NORMAL			NORMAL			DUPLICATE			DUPLICATE			NORMAL		
QC OF:							066680			066681					
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L				57.0000		NV				56.0000		NV	47.0000		NV
FLUORIDE	MG/L				0.2400		NV				0.2900		NV	0.3200		NV
NITRATE	MG/L				2.3300		NV				2.2500		NV			
NITRATE, AS NITROGEN	MG/L													1.0900		NV
PHENOLS	MG/L				0.0050		UNV				0.0050		NV	0.0050		UNV
SULFATE	MG/L				143.0000		NV				134.0000		NV	139.0000		NV
TOTAL ORGANIC CARBON	MG/L				2.0000		NV				2.0000		NV	1.0000		NV
TOTAL ORGANIC HALIDES	MG/L				0.0100		UNV				0.0100		UNV			
TOTAL ORGANIC HALOGENS	MG/L													0.0100		UNV
INORGANICS																
ALUMINUM	MG/L				6.6900		NV				2.1700		NV	0.4490		NV
ARSENIC	MG/L				0.0025		UNV				0.0025		UNV	0.0025		UNV
BARIUM	MG/L				0.2000		UNV				0.2650		NV	0.2680		NV
BERYLLIUM	MG/L				0.0100		UNV				0.0100		UNV	0.0100		UNV
CALCIUM	MG/L				154.0000		NV				137.0000		NV	150.0000		NV
CHROMIUM	MG/L				0.0080		NV				0.0050		UNV	0.0060		NV
COBALT	MG/L				0.0250		UNV				0.0250		UNV	0.0250		UNV
COPPER	MG/L				0.0250		UNV				0.0310		NV	0.0250		UNV
IRON	MG/L				1.6600		NV				2.1500		NV	0.4430		NV
LEAD	MG/L				0.0050		UNV				0.0050		UNV	0.0050		UNV
MAGNESIUM	MG/L				48.6000		NV				47.8000		NV	44.4000		NV
MANGANESE	MG/L				0.0730		NV				0.1080		NV	0.0700		NV
NICKEL	MG/L				0.0050		UNV				0.0050		UNV	0.0050		UNV
SILVER	MG/L				0.0010		UNV				0.0010		UNV	0.0010		UNV
SODIUM	MG/L				16.3000		NV				19.2000		NV	32.7000		NV
VANADIUM	MG/L				0.0500		UNV				0.0500		UNV	0.0500		UNV
ZINC	MG/L				0.0350		NV				0.0310		NV	0.0200		UNV

RADIONUCLIDES															
URANIUM-238	PCI/L	31.40004.2	R				31.5000	4	R				39.0000		NV
06/20/94															

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 452

SAMPLE NUMBER:		066680			066681			066744			066745			EMGW_SYSGEN_232	
LAB:		IT						IT						WMCO	
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-UNF			-			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM, TOTAL	UG/L	66.000010		R				68.0000	10	R				117.0000		NV
URANIUM-234	PCI/L	9.3600	1.47	R				8.9000	1.31	R				9.6000		NV
THORIUM-230	PCI/L	1.0000		R				1.0000		R				1.0000		UNV
URANIUM-235/236	PCI/L	1.0900	.37	R				1.1900	.34	R						
THORIUM-228	PCI/L	1.0000		R				1.0000		R				1.0000		UNV
TECHNETIUM-99	PCI/L	398.00005		R				1107.0000	149	R				229.0000		NV
URANIUM-235	PCI/L													0.6800		NV
URANIUM-236	PCI/L													0.6000		NV
VOLATILES															
1,1-DICHLOROETHANE	UG/L				2.5000		UNV				2.5000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L				2.5000		UNV				2.5000		UNV	1.0000		UNV
ACETONE	UG/L				2.5000		UNV				2.5000		UNV	2.0000		UNV
METHYLENE CHLORIDE	UG/L				2.5000		UNV				2.5000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L				2.5000		UNV				2.5000		UNV	1.0000		UNV
TOLUENE	UG/L				2.5000		UNV				2.5000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L				2.5000		UNV				2.5000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_233	EMGW_SYSGEN_234	EMGW_SYSGEN_235	EMGW_SYSGEN_236	EMGW_SYSGEN_238
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	NET	NET	NET	NET	NET
WELL OR BORING NUMBER:	1083	1083	1083	1083	1083
DEPTH:	-	-	-	-	-
DATE COLLECTED:	07-MAY-90	06-AUG-90	11-NOV-90	05-FEB-91	09-JUL-91
NORTH COORDINATE:	481804.99	481804.99	481804.99	481804.99	481804.99
EAST COORDINATE:	1379240.05	1379240.05	1379240.05	1379240.05	1379240.05
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							291.0000		NV	389.0000		NV	361.0000		NV
AMMONIA	MG/L							0.1100		NV	0.0500		NV	0.0500		NV
CHLORIDE	MG/L	51.0000		NV	58.0000		NV	67.0000		NV	61.0000		NV	55.0000		NV
FLUORIDE	MG/L	0.5400		NV	0.4300		NV	0.3000		NV	0.2600		NV	0.3000		NV
NITRATE, AS NITROGEN	MG/L	1.3200		NV	0.6400		NV				1.4700		NV	0.3300		NV
NITRATE/NITRITE	MG/L							2.2300		NV						
PH	STD							6.7000		NV	7.2600		NV	7.1400		NV
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0050		UNV
PHOSPHORUS	MG/L							0.2700		NV	0.4000		NV	0.5500		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM							1020.0000		NV	1030.0000		NV	976.0000		NV
SULFATE	MG/L	132.0000		NV	134.0000		NV	134.0000		NV	160.0000		NV	136.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L							878.0000		NV	642.0000		NV	572.0000		NV
TOTAL ORGANIC CARBON	MG/L	4.0000		NV	5.0000		NV	8.0000		NV	19.0000		NV	4.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0120		NV	0.0240		NV
INORGANICS																
ALUMINUM	MG/L	0.0500		UNV	0.5000		UNV	0.5000		UNV	6.7000		NV	7.0000		NV
ANTIMONY	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0200		UNV
ARSENIC	MG/L	0.0070		NV	0.0250		NV	0.0025		UNV	0.0025		UNV	0.0050		UNV
BARIUM	MG/L	0.2420		NV	0.5160		NV	0.2000		UNV	0.4300		NV	0.2400		NV
BERYLLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0500		UNV
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L	139.0000		NV	275.0000		NV	148.0000		NV	171.0000		NV	108.0000		NV
CHROMIUM	MG/L	0.0280		NV	0.0880		NV	0.0050		UNV	0.0350		NV	0.0020		UNV
COBALT	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0050		UNV
COPPER	MG/L	0.0430		NV	0.0580		NV	0.0290		NV	0.0250		UNV	0.0200		UNV
CYANIDE	MG/L	0.0050		UNV				0.0050		UNV	0.0050		UNV	0.0050		UNV
IRON	MG/L	0.0500		UNV	96.0000		NV	0.1290		NV	21.0000		NV	16.2000		NV
LEAD	MG/L	0.0050		UNV	0.0260		NV	0.0050		UNV	0.0050		UNV	0.0050		UNV

SAMPLE NUMBER:		EMGW_SYSGEN_233			EMGW_SYSGEN_234			EMGW_SYSGEN_235			EMGW_SYSGEN_236			EMGW_SYSGEN_238		
LAB:		NET			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	88.0000		NV	42.4000		NV	15.5000		NV	59.0000		NV	59.0000		NV
MANGANESE	MG/L	0.0460		NV	1.6800		NV	0.1110		NV	0.0680		NV	0.5030		NV
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0250		UNV	0.0100		UNV
NICKEL	MG/L	0.0050		UNV	0.0050		UNV	0.0090		NV	0.0300		NV	0.0400		NV
POTASSIUM	MG/L	0.8800		NV	1.2800		NV	4.1300		NV	3.4800		NV	1.1000		NV
SELENIUM	MG/L	0.0025		UNV	0.0025		UNV	0.0025		UNV	0.0025		UNV	0.0050		UNV
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L	20.1000		NV	29.6000		NV	26.3000		NV	29.2000		NV	30.0000		NV
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0100		UNV
VANADIUM	MG/L	0.0650		NV	0.0500		UNV	0.0740		NV	0.0500		UNV	0.0500		UNV
ZINC	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.1510		NV
MISC																
3-METHYLPHENOL	UG/L	4.0000		UNV												
DIPHENYLAMINE	UG/L	15.0000		UNV												
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
PESTICIDES																
4,4'-DDD	UG/L	0.2000		UNV												
4,4'-DDE	UG/L	0.2000		UNV												
4,4'-DDT	UG/L	0.2000		UNV												
ALDRIN	UG/L	0.2000		UNV												
ALPHA-BHC	UG/L	0.2000		UNV												
AROCLOR-1016	UG/L	0.2000		UNV												
AROCLOR-1221	UG/L	0.2000		UNV												
AROCLOR-1232	UG/L	0.2000		UNV												
AROCLOR-1242	UG/L	0.2000		UNV												
AROCLOR-1248	UG/L	0.2000		UNV												
AROCLOR-1254	UG/L	0.2000		UNV												
AROCLOR-1260	UG/L	0.2000		UNV												
BETA-BHC	UG/L	0.2000		UNV												
CHLORDANE	UG/L	0.2000		UNV												
DELTA-BHC	UG/L	0.2000		UNV												
DIELDRIN	UG/L	0.2000		UNV												
ENDOSULFAN II	UG/L	0.2000		UNV												
ENDOSULFAN SULFATE	UG/L	0.2000		UNV												
ENDOSULFAN-I	UG/L	0.2000		UNV												
ENDRIN	UG/L	0.0800		UNV												
ENDRIN ALDEHYDE	UG/L	0.2000		UNV												
GAMMA-BHC (LINDANE)	UG/L	0.2000		UNV												
HEPTACHLOR	UG/L	0.2000		UNV												
HEPTACHLOR EPOXIDE	UG/L	0.2000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_233			EMGW_SYSGEN_234			EMGW_SYSGEN_235			EMGW_SYSGEN_236			EMGW_SYSGEN_238		
LAB:		NET														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
TOXAPHENE	UG/L	0.5000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L	2.2900		NV	34.8000		NV	32.6000		NV	39.0000		NV			
URANIUM, TOTAL	UG/L	128.0000	7.1	NV	94.1000		NV	103.0000		NV	105.0000		NV	79.0000		NV
URANIUM-234	PCI/L	2.7400		NV	20.0000		NV	8.7400		NV	10.3000		NV			
THORIUM-230	PCI/L	0.6870		NV	0.8000		UNV	0.4600		UNV	0.4300		UNV			
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV			
URANIUM-235/236	PCI/L	0.2000		UNV	0.9740		NV	0.8570		NV	0.7700		NV			
THORIUM-232	PCI/L	0.4400		UNV	0.8000		UNV	0.4600		UNV	1.1200		NV			
THORIUM, TOTAL	UG/L	4.0000		UNV	7.2000		UNV	4.1000		UNV	10.1000		NV			
RADIUM-228	PCI/L	24.0000		UNV	3.0000		UNV	3.0000		UNV	3.0000		UNV			
THORIUM-228	PCI/L	0.9820		NV	1.6100		NV	0.4600		UNV	1.8900		NV			
NEPTUNIUM-237	PCI/L	0.5000		UNV				0.5000		UNV	0.5000		UNV			
PLUTONIUM-239/240	PCI/L	0.5000		UNV				0.5000		UNV	0.5000		UNV			
PLUTONIUM-238	PCI/L	0.5000		UNV				0.5000		UNV	0.5000		UNV			
STRONTIUM-90	PCI/L	1.0000		UNV												
TECHNETIUM-99	PCI/L	452.0000		NV				266.0000		NV	133.0000		NV			
RUTHENIUM-106	PCI/L	150.0000		UNV				150.0000		UNV	150.0000		UNV			
CESIUM-137	PCI/L	10.0000		UNV				9.2000		UNV	10.0000		UNV			
GROSS ALPHA	PCI/L	0.0868	.0234	NV				61.1000		NV	71.5000		NV			
GROSS BETA	PCI/L	0.1730	.033	NV				185.0000		NV	161.0000		NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	4.0000		UNV												
1,3-DICHLOROBENZENE	UG/L	4.0000		UNV												
1,4-DICHLOROBENZENE	UG/L	4.0000		UNV												
2,4,5-TRICHLOROPHENOL	UG/L	4.0000		UNV												
2,4,6-TRICHLOROPHENOL	UG/L	4.0000		UNV												
2,4-DICHLOROPHENOL	UG/L	4.0000		UNV												
2,4-DIMETHYLPHENOL	UG/L	4.0000		UNV												
2,4-DINITROPHENOL	UG/L	4.0000		UNV												
2,4-DINITROTOLUENE	UG/L	15.0000		UNV												
2,6-DINITROTOLUENE	UG/L	15.0000		UNV												
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV	10.0000		UNV	10.0000		UNV
2-CHLORONAPHTHALENE	UG/L	4.0000		UNV												
2-CHLOROPHENOL	UG/L	4.0000		UNV												
2-METHYLPHENOL	UG/L	4.0000		UNV												
2-NITROANILINE	UG/L	15.0000		UNV												
2-NITROPHENOL	UG/L	4.0000		UNV												
3,3'-DICHLOROBENZIDINE	UG/L	15.0000		UNV												
3-NITROANILINE	UG/L	15.0000		UNV												
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_233		EMGW_SYSGEN_234			EMGW_SYSGEN_235			EMGW_SYSGEN_236			EMGW_SYSGEN_238		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000		UNV												
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000		UNV												
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000		UNV												
4-NITROANILINE	UG/L	15.0000		UNV												
4-NITROPHENOL	UG/L	4.0000		UNV												
ACENAPHTHYLENE	UG/L	4.0000		UNV												
ANTHRACENE	UG/L	4.0000		UNV												
BENZO(A)ANTHRACENE	UG/L	4.0000		UNV												
BENZO(A)PYRENE	UG/L	4.0000		UNV												
BENZO(B)FLUORANTHENE	UG/L	4.0000		UNV												
BENZO(G,H,I)PERYLENE	UG/L	4.0000		UNV												
BENZO(K)FLUORANTHENE	UG/L	4.0000		UNV												
BENZOIC ACID	UG/L	4.0000		UNV												
BENZYL ALCOHOL	UG/L	40.0000		UNV												
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000		UNV												
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000		UNV												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	15.0000		UNV												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4.0000		UNV												
BUTYL BENZYL PHTHALATE	UG/L	4.0000		UNV												
CHRYSENE	UG/L	4.0000		UNV												
DI-N-BUTYL PHTHALATE	UG/L	4.0000		UNV												
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000		UNV												
DIBENZOFURAN	UG/L	4.0000		UNV												
DIETHYL PHTHALATE	UG/L	4.0000		UNV												
DIMETHYL PHTHALATE	UG/L	4.0000		UNV												
FLUORANTHENE	UG/L	4.0000		UNV												
FLUORENE	UG/L	4.0000		UNV												
HEXACHLOROBENZENE	UG/L	4.0000		UNV												
HEXACHLOROBUTADIENE	UG/L	4.0000		UNV												
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000		UNV												
HEXACHLOROETHANE	UG/L	4.0000		UNV												
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000		UNV												
ISOPHORONE	UG/L	4.0000		UNV												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000		UNV												
N-NITROSODIPHENYLAMINE	UG/L	4.0000		UNV												
NAPHTHALENE	UG/L	4.0000		UNV												
NITROBENZENE	UG/L	4.0000		UNV												
P-CHLOROANILINE	UG/L	4.0000		UNV												
PENTACHLOROPHENOL	UG/L	4.0000		UNV												
PHENANTHRENE	UG/L	4.0000		UNV												
PHENOL	MG/L	4.0000		UNV												
PYRENE	UG/L	4.0000		UNV												
PYRIDINE	UG/L	4.0000		UNV												

VOLATILES																		
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV		

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT

SAMPLE NUMBER:	EMGW_SYSGEN_233			EMGW_SYSGEN_234			EMGW_SYSGEN_235			EMGW_SYSGEN_236			EMGW_SYSGEN_238		
LAB:	NET			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1,2,2-TETRACHLOROETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL) UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROFORM UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.5000		NV
TRANS-1,3-DICHLOROPROPENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_239	EMGW_SYSGEN_239D	GW930105-2	GW930416-1	003566
TASK:	GWMON	GWMON	RCRA	50.03.23	3.2.4
LAB:	NET	NET	NET	DATACHEM	IT
WELL OR BORING NUMBER:	1083	1083	1083	1083	1084
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-OCT-91	22-OCT-91	05-JAN-93	16-APR-93	24-AUG-88
NORTH COORDINATE:	481804.99	481804.99	481804.99	481804.99	481925.26
EAST COORDINATE:	1379240.05	1379240.05	1379240.05	1379240.05	1378934.37
QA TYPE:	NORMAL	DUPLICATE	NORMAL	NORMAL	NORMAL
QC OF:		EMGW_SYSGEN_239			
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	330.0000		NV	343.0000		NV	347.0000		NV	360.0000		-			
ALLYL CHLORIDE	UG/L							5.0000		UNV						
AMMONIA	MG/L	0.0300		NV	0.0200		UNV	0.0200		UNV	0.0500		U	0.2000		J
BICARBONATE ALKALINITY	MG/L							378.0000		NV	450.0000		-			
CARBONATE ALKALINITY	MG/L							3.0000		UNV	3.0000		U			
CHLORIDE	MG/L	54.0000		NV	52.0000		NV	46.0000		NV	49.0000		-	4.0000		-
FLUORIDE	MG/L	0.3500		NV	0.3500		NV	0.3200		NV	0.4000		-	1.6000		J
NITRATE	MG/L							0.2700		NV				0.1700		J
NITRATE, AS NITROGEN	MG/L	0.5700		NV	0.6200		NV									
NITRATE/NITRITE	MG/L										0.1900		U			
NITRITE, AS NITROGEN	MG/L							0.0200		UNV						
PH	STD	7.0800		NV	7.0100		NV	7.1600		NV	7.4000		-			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0100		U	0.0100		J
PHOSPHORUS	MG/L	0.1300		NV	0.1000		UNV	0.1000		UNV	0.0700		-	2.2000		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	1020.0000		NV	1010.0000		NV	1050.0000		NV	970.0000		-			
SULFATE	MG/L	134.0000		NV	126.0000		NV	163.0000		NV	100.0000		-	498.0000		J
TOTAL DISSOLVED SOLIDS	MG/L	592.0000		NV	660.0000		NV	582.0000		NV	600.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										0.1000		-			
TOTAL ORGANIC CARBON	MG/L	18.0000		NV	19.0000		NV	17.0000		NV	1.0000		UJ			
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV	0.0100		UJ	0.0500		UJ
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV									
TOTAL ORGANIC NITROGEN	MG/L													0.3000		J
TOTAL SOLIDS	MG/L							575.0000		NV	620.0000		-			
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.0265		U			
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0450		U			
ARSENIC	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0010		U	0.0020		U
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2000		UNV	0.0646		-	0.1130		-

SAMPLE NUMBER:		EMGW_SYSGEN_239		EMGW_SYSGEN_239D		GW930105-2		GW930416-1		003566	
LAB:		NET		NET		NET		DATACHEM		IT	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
BERYLLIUM	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0010	U		
CADMIUM	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0030	U	0.0020	U
CALCIUM	MG/L	129.0000	NV	122.0000	NV	106.0000	NV	126.0000	-	148.0000	-
CHROMIUM	MG/L	0.0061	NV	0.0070	NV	0.0020	UNV	0.0207	U	0.0200	U
COBALT	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0060	U		
COPPER	MG/L	0.0200	UNV	0.0200	UNV	0.0200	UNV	0.0040	U	0.0100	U
CYANIDE	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0100	U		
IRON	MG/L	0.1000	UNV	0.1000	UNV	0.2200	NV	0.3800	UJ	0.0050	U
LEAD	MG/L	0.0030	UNV	0.0030	UNV	0.0030	UNV	0.0010	UJ	0.0020	UJ
MAGNESIUM	MG/L	40.0000	NV	40.0000	NV	35.1000	NV	40.3000	-	70.4000	-
MANGANESE	MG/L	0.0280	NV	0.0280	NV	0.0290	NV	0.0104	U	0.0230	-
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	UNV	0.0002	U	0.0002	U
MOLYBDENUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV			0.0570	-
NICKEL	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0190	U	0.0220	-
POTASSIUM	MG/L	1.0000	NV	1.0000	NV	1.0000	UNV	0.8910	U	3.2000	-
SELENIUM	MG/L	0.0050	UNV	0.0050	UNV	0.0050	UNV	0.0020	UJ	0.0020	UJ
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0010	UNV	0.0030	UJ	0.0100	U
SODIUM	MG/L	26.0000	NV	27.0000	NV	28.0000	NV	26.0000	-	42.0000	-
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0100	UNV	0.0010	UJ		
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0500	UNV	0.0040	U		
ZINC	MG/L	0.0200	UNV	0.0200	UNV	0.0200	UNV	0.0060	U		
MISC											
1,2,3-TRICHLOROPROPANE	UG/L					5.0000	UNV				
1,2-DIBROMO-3-CHLOROPROPANE	UG/L					2.0000	UNV				
1,2-DIBROMOETHANE	UG/L					2.0000	UNV				
2-CHLORO-1,3-BUTADIENE	UG/L					5.0000	UNV				
ACROLEIN	UG/L					50.0000	UNV				
ACROLEIN	UG/L					50.0000	UNV				
ACRYLONITRILE	UG/L					50.0000	UNV				
DICHLORODIFLUOROMETHANE	UG/L					10.0000	UNV				
ETHYL CYANIDE	UG/L					20.0000	UNV				
ETHYL METHACRYLATE	UG/L					5.0000	UNV				
IODOMETHANE	UG/L					5.0000	UNV				
METHACRYLONITRILE	UG/L					5.0000	UNV				
METHYL METHACRYLATE	UG/L					5.0000	UNV				
PENTACHLOROETHANE	UG/L					5.0000	UNV				
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV				
TRANS-1,4-DICHLORO-2-BUTENE	UG/L					20.0000	UNV				
RADIONUCLIDES											
URANIUM-238	PCI/L							45.3000 6.1	J	262.0000 42	
URANIUM, TOTAL	UG/L	72.0000	NV	76.0000	NV	130.0000	NV	145.0000 10.1	J	590.0000 90	

SAMPLE NUMBER:		EMGW_SYSGEN_239			EMGW_SYSGEN_239D			GW930105-2			GW930416-1			003566		
LAB:		WMCO			WMCO			FERMCO Laboratory			CORE			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L										10.4000	1.1	J	51.7000	9.1	-
THORIUM-230	PCI/L							0.3000	.1	NV	0.2000	.1	UJ	2.3000	.7	-
RADIUM-226	PCI/L							1.0000	.3	UNV	1.0000	.2	UJ	1.0000		UJ
URANIUM-235/236	PCI/L										1.4000	.3	J	5.7000	1.7	-
THORIUM-232	PCI/L							0.2000	.1	UNV	0.3000	.1	UJ	1.5000	.6	-
THORIUM, TOTAL	UG/L							0.7000		NV	1.8240	.1	NV	14.0000	5	-
RADIUM-228	PCI/L							3.0000	1	UNV	10.4000	1.7	-	3.0000		U
THORIUM-228	PCI/L							0.2000	.1	UNV	0.2000	.1	UJ	2.0000	.7	-
NEPTUNIUM-237	PCI/L													1.0000		U
PLUTONIUM-239/240	PCI/L													1.0000		U
PLUTONIUM-238	PCI/L													1.0000		U
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L							77.5000	7.1	NV	51.1000	9.4	-	30.0000		U
RUTHENIUM-106	PCI/L													150.0000		R
CESIUM-137	PCI/L													20.0000		R
GROSS ALPHA	PCI/L							32.6000	4.5	NV	56.5000	6.3	NV			
GROSS BETA	PCI/L							85.8000	4.5	NV	90.2000	4.8	NV			
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV						
CUMENE	UG/L							1.0000		UNV						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV				10.0000		U			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U			
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			

001127

SAMPLE NUMBER:		EMGW_SYSGEN_239		EMGW_SYSGEN_239D		GW930105-2		GW930416-1		003566	
LAB:		NET		NET		NET		DATACHEM			
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
CHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	U		
CHLOROFORM	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
CHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	UJ		
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
METHYLENE CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	U		
STYRENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRICHLOROFLUOROMETHANE	UG/L					1.0000	UNV				
VINYL ACETATE	UG/L	2.0000	UNV	2.0000	UNV	10.0000	UNV				
VINYL CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	5.0000	UNV	10.0000	UJ		
XYLENES, TOTAL	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		003772			003960			004040			007164			120482		
TASK:		3.2.4			3.2.4			3.2.4			3.2			50.03.23		
LAB:		IT			IT			IT			UNKNOWN			DATACHEM		
WELL OR BORING NUMBER:		1084			1084			1084			1084			1084		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		22-NOV-88			09-MAR-89			09-MAR-89			07-MAR-88			24-JUL-93		
NORTH COORDINATE:		481925.26			481925.26			481925.26			481925.26			481925.26		
EAST COORDINATE:		1378934.37			1378934.37			1378934.37			1378934.37			1378934.37		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			U-UNF			F-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													460.0000		-
AMMONIA	MG/L	0.2600		J										0.0500		U
CHLORIDE	MG/L	0.7000		-										2.6000		-
FLUORIDE	MG/L	1.2500		-										1.3000		-
NITRATE	MG/L	0.2300		-												
NITRATE/NITRITE	MG/L													0.5100		J
PHENOLS	MG/L	0.0100		U										0.0020		UJ
PHOSPHORUS	MG/L	0.1170		-										0.4100		-
SULFATE	MG/L	781.0000		J										110.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL KJELDAHL NITROGEN	MG/L	2.6500		J										0.3000		U
TOTAL ORGANIC CARBON	MG/L													2.0000		J
TOTAL ORGANIC HALIDES	MG/L	0.0500		U										0.0100		UJ
TOTAL ORGANIC NITROGEN	MG/L	2.3900		J										0.3000		U
INORGANICS																
ALUMINUM	MG/L													7.8500		-
ANTIMONY	MG/L													0.0450		U
ARSENIC	MG/L	0.0020		U										0.0039		-
BARIUM	MG/L	0.1230		-										0.1070		-
BERYLLIUM	MG/L													0.0010		U
CADMIUM	MG/L	0.0020		U										0.0030		U
CALCIUM	MG/L	146.0000		-										140.0000		-
CHROMIUM	MG/L	0.0200		U										0.0290		-
COBALT	MG/L													0.0060		U
COPPER	MG/L	0.0100		U										0.0221		-
CYANIDE	MG/L													0.0100		U
IRON	MG/L	0.0160		-										15.5000		-
LEAD	MG/L	0.0020		UJ										0.0174		J

001129

SAMPLE NUMBER:		003772		003960			004040			007164			120482		
LAB:		IT											DATACHEM		
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L	67.5000		-										71.8000		-
MANGANESE	MG/L	0.2530		-										0.4330		-
MERCURY	MG/L	0.0002		UJ										0.0002		U
MOLYBDENUM	MG/L	0.0490		U												
NICKEL	MG/L	0.0440		-										0.0477		U
POTASSIUM	MG/L	2.3700		-										3.9600		-
SELENIUM	MG/L	0.0020		UJ										0.0020		UJ
SILVER	MG/L	0.0005		UJ										0.0030		UJ
SODIUM	MG/L	40.9000		-										35.6000		-
THALLIUM	MG/L													0.0010		U
VANADIUM	MG/L													0.0126		-
ZINC	MG/L													0.0756		J
PESTICIDES																
4,4'-DDD	UG/L										0.5000		U			
4,4'-DDE	UG/L										2.0000		R			
4,4'-DDT	UG/L										0.5000		U			
ALDRIN	UG/L										0.2500		U			
ALPHA-BHC	UG/L										0.2500		U			
ALPHA-CHLORDANE	UG/L										2.5000		U			
AROCLOR-1016	UG/L										2.5000		U			
AROCLOR-1221	UG/L										2.5000		R			
AROCLOR-1232	UG/L										2.5000		U			
AROCLOR-1242	UG/L										10.0000		R			
AROCLOR-1248	UG/L										2.5000		U			
AROCLOR-1254	UG/L										5.0000		U			
AROCLOR-1260	UG/L										5.0000		U			
BETA-BHC	UG/L										0.2500		U			
DELTA-BHC	UG/L										0.2500		U			
DIELDRIN	UG/L										0.5000		U			
ENDOSULFAN II	UG/L										0.5000		U			
ENDOSULFAN SULFATE	UG/L										0.5000		U			
ENDOSULFAN-I	UG/L										0.2500		U			
ENDRIN	UG/L										0.5000		U			
ENDRIN KETONE	UG/L										0.5000		U			
GAMMA-BHC (LINDANE)	UG/L										0.2500		U			
GAMMA-CHLORDANE	UG/L										2.5000		U			
HEPTACHLOR	UG/L										0.2500		U			
HEPTACHLOR EPOXIDE	UG/L										0.2500		U			
METHOXYCHLOR	UG/L										2.5000		U			
TOXAPHENE	UG/L										5.0000		U			
RADIONUCLIDES																

001130

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

URANIUM-238	PCI/L	198.000B3	-	122.0000	17	-	135.0000	17	-								
SAMPLE NUMBER:		003772			003960			004040			007164			120482			
LAB:		IT			IT			IT									
SUFFIX/FILTERFLAG:		NONE-UNF			U-UNF			F-FIL			-			-			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																	
URANIUM, TOTAL	UG/L	635.000001		-	293.0000	48	-	360.0000	58	-							
URANIUM-234	PCI/L	44.70008.2		-	27.6000	4.3	-	28.5000	4.1	-							
THORIUM-230	PCI/L	1.3000	.6	J	1.0000		U	1.0000		U							
RADIUM-226	PCI/L	1.0000		U	1.0000		U	1.0000		U							
URANIUM-235/236	PCI/L	5.6000	1.7	-	2.2000	.8	-	2.7000	.7	-							
THORIUM-232	PCI/L	1.1000	.6	-	1.0000		U	1.0000		U							
THORIUM, TOTAL	UG/L	10.00005		-	4.0000		U	3.0000		U							
RADIUM-228	PCI/L	3.4000		UJ	3.0000		UJ	3.0000		UJ							
THORIUM-228	PCI/L	1.1000	.6	J	1.0000		U	1.0000		U							
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	1.0000		U							
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U	1.0000		U							
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U							
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U							
TECHNETIUM-99	PCI/L	30.0000		UJ	30.0000		R	30.0000		R							
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R							
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R							
SEMIVOLATILES																	
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U				
1,2-DICHLOROBENZENE	UG/L										10.0000		U				
1,3-DICHLOROBENZENE	UG/L										10.0000		U				
1,4-DICHLOROBENZENE	UG/L										10.0000		U				
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		U				
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U				
2,4-DICHLOROPHENOL	UG/L										10.0000		U				
2,4-DIMETHYLPHENOL	UG/L										10.0000		U				
2,4-DINITROPHENOL	UG/L										50.0000		U				
2,4-DINITROTOLUENE	UG/L										10.0000		U				
2,6-DINITROTOLUENE	UG/L										10.0000		U				
2-CHLORONAPHTHALENE	UG/L										10.0000		U				
2-CHLOROPHENOL	UG/L										10.0000		U				
2-METHYLNAPHTHALENE	UG/L										10.0000		U				
2-METHYLPHENOL	UG/L										10.0000		U				
2-NITROANILINE	UG/L										50.0000		U				
2-NITROPHENOL	UG/L										10.0000		U				
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		UJ				
3-NITROANILINE	UG/L										50.0000		R				
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		U				
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U				
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U				
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U				
4-METHYLPHENOL	UG/L										10.0000		U				
4-NITROANILINE	UG/L										50.0000		UJ				

SAMPLE NUMBER:	003772			003960			004040			007164			120482		
LAB:										UNKNOWN					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4-NITROPHENOL UG/L										50.0000		U			
ACENAPHTHENE UG/L										10.0000		U			
ACENAPHTHYLENE UG/L										10.0000		U			
ANTHRACENE UG/L										10.0000		U			
BENZO(A)ANTHRACENE UG/L										10.0000		U			
BENZO(A)PYRENE UG/L										10.0000		U			
BENZO(B)FLUORANTHENE UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE UG/L										10.0000		U			
BENZO(K)FLUORANTHENE UG/L										10.0000		U			
BENZOIC ACID UG/L										50.0000		U			
BENZYL ALCOHOL UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										10.0000		U			
BUTYL BENZYL PHTHALATE UG/L										10.0000		U			
CHRYSENE UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		U			
DIBENZOFURAN UG/L										10.0000		U			
DIETHYL PHTHALATE UG/L										10.0000		U			
DIMETHYL PHTHALATE UG/L										10.0000		U			
FLUORANTHENE UG/L										10.0000		U			
FLUORENE UG/L										10.0000		U			
HEXACHLOROBENZENE UG/L										10.0000		U			
HEXACHLOROBUTADIENE UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		U			
HEXACHLOROETHANE UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE UG/L										15.0000		U			
NAPHTHALENE UG/L										10.0000		U			
NITROBENZENE UG/L										10.0000		U			
P-CHLOROANILINE UG/L										10.0000		R			
PENTACHLOROPHENOL UG/L										50.0000		UJ			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		U			
PYRENE UG/L										10.0000		U			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										5.0000		U	10.0000		U
1,1,2,2-TETRACHLOROETHANE UG/L										5.0000		U	10.0000		U

001132

5704

SAMPLE NUMBER:		003772			003960			004040			007164			120482		
LAB:											UNKNOWN			DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U	10.0000		U
1,1-DICHLOROETHANE	UG/L										5.0000		U	10.0000		U
1,1-DICHLOROETHENE	UG/L										5.0000		U	10.0000		U
1,2-DICHLOROETHANE	UG/L										5.0000		U	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U	10.0000		U
1,2-DICHLOROPROPANE	UG/L										5.0000		U	10.0000		U
2-BUTANONE	UG/L										10.0000		R	10.0000		U
2-HEXANONE	UG/L										10.0000		UJ	10.0000		U
4-METHYL-2-PENTANONE	UG/L										10.0000		UJ	10.0000		U
ACETONE	UG/L										10.0000		R	10.0000		U
BENZENE	UG/L										5.0000		U	10.0000		U
BROMODICHLOROMETHANE	UG/L										5.0000		U	10.0000		U
BROMOFORM	UG/L										5.0000		U	10.0000		U
BROMOMETHANE	UG/L										10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L										5.0000		U	10.0000		U
CARBON TETRACHLORIDE	UG/L										5.0000		U	10.0000		U
CHLOROBENZENE	UG/L										5.0000		U	10.0000		U
CHLOROETHANE	UG/L										10.0000		U	10.0000		U
CHLOROFORM	UG/L										5.0000		U	10.0000		U
CHLOROMETHANE	UG/L										10.0000		U	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U	10.0000		U
DIBROMOCHLOROMETHANE	UG/L										5.0000		U	10.0000		U
ETHYLBENZENE	UG/L										5.0000		U	10.0000		U
METHYLENE CHLORIDE	UG/L										5.0000		U	10.0000		U
STYRENE	UG/L										5.0000		U	10.0000		U
TETRACHLOROETHENE	UG/L										5.0000		U	10.0000		U
TOLUENE	UG/L										5.0000		U	10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U	10.0000		U
TRICHLOROETHENE	UG/L										5.0000		U	10.0000		U
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L										5.0000		U	10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120482F				120483			120483F			120485			120485F		
TASK:	50.03.23				50.03.23			50.03.23			50.03.23			50.03.23		
LAB:	DATACHEM				CORE			CORE			FERMCO			FERMCO		
WELL OR BORING NUMBER:	1084				1084			1084			1084			1084		
DEPTH:	-				-			-			-			-		
DATE COLLECTED:	24-JUL-93				24-JUL-93			24-JUL-93			24-JUL-93			24-JUL-93		
NORTH COORDINATE:	481925.26				481925.26			481925.26			481925.26			481925.26		
EAST COORDINATE:	1378934.37				1378934.37			1378934.37			1378934.37			1378934.37		
QA TYPE:	NORMAL				NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:	NONE-FIL				NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	0.5610		-												
ANTIMONY	MG/L	0.0450		U												
ARSENIC	MG/L	0.0014		-												
BARIUM	MG/L	0.0779		-												
BERYLLIUM	MG/L	0.0010		U												
CADMIUM	MG/L	0.0030		U												
CALCIUM	MG/L	149.0000		-												
CHROMIUM	MG/L	0.0116		U												
COBALT	MG/L	0.0060		U												
COPPER	MG/L	0.0114		-												
CYANIDE	MG/L	0.0100		U												
IRON	MG/L	0.9000		-												
LEAD	MG/L	0.0044		UJ												
MAGNESIUM	MG/L	70.8000		-												
MANGANESE	MG/L	0.2590		-												
MERCURY	MG/L	0.0002		U												
NICKEL	MG/L	0.0231		U												
POTASSIUM	MG/L	2.1600		-												
SELENIUM	MG/L	0.0020		UJ												
SILVER	MG/L	0.0030		UJ												
SODIUM	MG/L	35.4000		-												
THALLIUM	MG/L	0.0010		U												
VANADIUM	MG/L	0.0040		U												
ZINC	MG/L	0.0238		U												
RADIONUCLIDES																
URANIUM-238	PCI/L				25.3000	2.4	J	18.1000	1.8	J						
URANIUM, TOTAL	UG/L				79.0000	5.5	-	69.1000	4.8	-	76.0000		NV	77.0000		NV
URANIUM-234	PCI/L				6.3000	.8	J	5.5000	.7	J						

001134

5704

SAMPLE NUMBER:		120482F			120483			120483F			120485			120485F		
LAB:					CORE			CORE								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L				1.4000	.4	J	0.3000	.2	J						
RADIUM-226	PCI/L				1.0000	.4	U	1.0000	.4	U						
URANIUM-235/236	PCI/L				0.5000	.4	J	0.7000	.4	J						
THORIUM-232	PCI/L				0.4000	.2	J	0.2000	.1	UJ						
THORIUM, TOTAL	UG/L				3.6481	.2	NV									
RADIUM-228	PCI/L				3.0000	1.1	U	3.0000	1.2	U						
THORIUM-228	PCI/L				0.6000	.2	J	0.2000	.1	UJ						
TECHNETIUM-99	PCI/L				15.0000	6.8	U	15.0000	7.2	U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_242	020249	020258	020262	EMGW_SYSGEN_243
TASK:	GWMON	3.8	3.8	3.8	GWMON
LAB:	IT	IT	IT/MWL	IT	IT
WELL OR BORING NUMBER:	1084	1085	1085	1085	1085
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-MAR-90	12-APR-88	13-APR-88	14-APR-88	15-JUN-90
NORTH COORDINATE:	481925.26	481970.37	481970.37	481970.37	481970.37
EAST COORDINATE:	1378934.37	1381739.56	1381739.56	1381739.56	1381739.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										0.2000		-			
CHLORIDE	MG/L										12.1000		-			
FLUORIDE	MG/L										0.7900		-			
NITRATE	MG/L							0.3400		-						
PHENOLS	MG/L							0.0100		U						
SULFATE	MG/L										248.0000		-			
TOTAL ORGANIC NITROGEN	MG/L										0.2000		-			
INORGANICS																
ALUMINUM	MG/L				0.0500		-	0.0500		U	0.0500		U			
ANTIMONY	MG/L				0.0005		U	0.0022		U	0.0005		U			
ARSENIC	MG/L				0.0050		U	0.0020		U	0.0020		U			
BARIUM	MG/L				0.0720		R	0.0710		R	0.0690		R			
BERYLLIUM	MG/L				0.0010		U	0.0010		U	0.0014		U			
CADMIUM	MG/L				0.0020		UJ	0.0020		U	0.0020		U			
CALCIUM	MG/L				99.0000		J	99.0000		J	99.9000		J			
CHROMIUM	MG/L				0.0200		UR	0.0200		U	0.0200		U			
COBALT	MG/L				0.0100		U	0.0100		U	0.0100		U			
COPPER	MG/L				0.0100		UR	0.0100		UR	0.0100		UR			
CYANIDE	MG/L				0.0100		UR									
IRON	MG/L				0.2020		-	0.0130		UJ	0.0050		UJ			
LEAD	MG/L				0.0020		U	0.0020		UJ	0.0020		UJ			
MAGNESIUM	MG/L				52.8500		J	53.8700		J	54.5500		J			
MANGANESE	MG/L				0.2470		-	0.2030		-	0.1910		-			
MERCURY	MG/L				0.0002		J	0.0002		-	0.0002		UR			
MOLYBDENUM	MG/L				0.0200		UNV	0.0200		U	0.0200		U			
NICKEL	MG/L				0.0200		U	0.0200		U	0.0200		U			
POTASSIUM	MG/L				9.4500		J	9.4800		J	8.8400		J			
SELENIUM	MG/L				0.0020		UJ	0.0020		UJ	0.0020		UJ			

SAMPLE NUMBER:	EMGW_SYSGEN_242			020249			020258			020262			EMGW_SYSGEN_243		
LAB:				IT			IT/MWL			IT					
SUFFIX/FILTERFLAG:	-			NONE-UNF			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L				0.0050		UJ	0.0005		UJ	0.0005		UJ			
SODIUM	MG/L				17.2700		J	17.1900		J	16.6100		J			
THALLIUM	MG/L				0.0050		UJ	0.0010		U	0.0010		U			
VANADIUM	MG/L				0.0100		U	0.0100		UJ	0.0100		UJ			
ZINC	MG/L				0.0100		UR	0.0100		U	0.0100		U			
PESTICIDES																
4,4'-DDD	UG/L				0.1000		UNV									
4,4'-DDE	UG/L				0.1000		UNV									
4,4'-DDT	UG/L				0.1000		UNV									
ALDRIN	UG/L				0.0500		UNV									
ALPHA-BHC	UG/L				0.0500		UNV									
ALPHA-CHLORDANE	UG/L				0.5000		UNV									
AROCLOR-1016	UG/L				0.5000		UNV									
AROCLOR-1221	UG/L				0.5000		UNV									
AROCLOR-1232	UG/L				0.5000		UNV									
AROCLOR-1242	UG/L				0.5000		UNV									
AROCLOR-1248	UG/L				0.5000		UNV									
AROCLOR-1254	UG/L				1.0000		UNV									
AROCLOR-1260	UG/L				1.0000		UNV									
BETA-BHC	UG/L				0.0500		UNV									
DELTA-BHC	UG/L				0.0500		UNV									
DIELDRIN	UG/L				0.1000		UNV									
ENDOSULFAN II	UG/L				0.1000		UNV									
ENDOSULFAN SULFATE	UG/L				0.1000		UNV									
ENDOSULFAN-I	UG/L				0.0500		UNV									
ENDRIN	UG/L				0.1000		UNV									
ENDRIN KETONE	UG/L				0.1000		UNV									
GAMMA-BHC (LINDANE)	UG/L				0.0500		UNV									
GAMMA-CHLORDANE	UG/L				0.5000		UNV									
HEPTACHLOR	UG/L				0.0500		UNV									
HEPTACHLOR EPOXIDE	UG/L				0.0500		UNV									
METHOXYCHLOR	UG/L				0.5000		UNV									
TOXAPHENE	UG/L				1.0000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L	78.1000		NV				2.0000	.7	-				1390.0000		NV
URANIUM, TOTAL	UG/L	233.0000		NV				4.0000	1	-				4190.0000		NV
URANIUM-234	PCI/L	19.4000		NV				2.1000	.7	-				1060.0000		NV
THORIUM-230	PCI/L							1.0000		UJ				0.2600		UNV
RADIUM-226	PCI/L							1.0000		R				1.0000		UNV
URANIUM-235/236	PCI/L	1.9000		NV				1.0000		U				146.0000		NV
THORIUM-232	PCI/L							1.0000		UJ				0.2600		UNV

001137

SAMPLE NUMBER:		EMGW_SYSGEN_242			020249		020258			020262			EMGW_SYSGEN_243		
LAB:							IT						IT		
SUFFIX/FILTERFLAG:		-			-		NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM, TOTAL	UG/L												2.4000		UNV
RADIUM-228	PCI/L						3.0000		R				3.0000		UNV
THORIUM-228	PCI/L						1.0000		UJ				0.2600		UNV
NEPTUNIUM-237	PCI/L						1.0000		UJ						
PLUTONIUM-239/240	PCI/L						1.0000		U						
PLUTONIUM-238	PCI/L						1.0000		U						
STRONTIUM-90	PCI/L						5.0000		U						
TECHNETIUM-99	PCI/L						30.0000		U						
RUTHENIUM-106	PCI/L						150.0000		R						
CESIUM-137	PCI/L						20.0000		R						
GROSS ALPHA	PCI/L												1790.0000		NV
GROSS BETA	PCI/L												1070.0000		NV
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	UG/L				10.0000	U									
1,2-DICHLOROBENZENE	UG/L				10.0000	U									
1,3-DICHLOROBENZENE	UG/L				10.0000	U									
1,4-DICHLOROBENZENE	UG/L				10.0000	U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000	U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000	U									
2,4-DICHLOROPHENOL	UG/L				10.0000	U									
2,4-DIMETHYLPHENOL	UG/L				10.0000	U									
2,4-DINITROPHENOL	UG/L				10.0000	U									
2,4-DINITROTOLUENE	UG/L				50.0000	U									
2,6-DINITROTOLUENE	UG/L				10.0000	U									
2-CHLORONAPHTHALENE	UG/L				10.0000	U									
2-CHLOROPHENOL	UG/L				10.0000	U									
2-METHYLNAPHTHALENE	UG/L				10.0000	U									
2-METHYLPHENOL	UG/L				10.0000	U									
2-NITROANILINE	UG/L				50.0000	U									
2-NITROPHENOL	UG/L				10.0000	U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000	U									
3-NITROANILINE	UG/L				50.0000	U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				10.0000	U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000	U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000	U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000	U									
4-METHYLPHENOL	UG/L				10.0000	U									
4-NITROANILINE	UG/L				50.0000	U									
4-NITROPHENOL	UG/L				50.0000	U									
ACENAPHTHENE	UG/L				10.0000	U									
ACENAPHTHYLENE	UG/L				10.0000	U									
ANTHRACENE	UG/L				10.0000	U									
BENZO(A)ANTHRACENE	UG/L				10.0000	U									

SAMPLE NUMBER:		EMGW_SYSGEN_242			020249		020258			020262			EMGW_SYSGEN_243		
LAB:					IT										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(A)PYRENE	UG/L				10.0000	U									
BENZO(B)FLUORANTHENE	UG/L				10.0000	U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000	U									
BENZO(K)FLUORANTHENE	UG/L				10.0000	U									
BENZOIC ACID	UG/L				50.0000	U									
BENZYL ALCOHOL	UG/L				10.0000	U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000	U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000	U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000	U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000	U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000	U									
CHRYSENE	UG/L				10.0000	U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000	U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000	U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000	U									
DIBENZOFURAN	UG/L				10.0000	U									
DIETHYL PHTHALATE	UG/L				10.0000	U									
DIMETHYL PHTHALATE	UG/L				10.0000	U									
FLUORANTHENE	UG/L				10.0000	U									
FLUORENE	UG/L				50.0000	U									
HEXACHLOROBENZENE	UG/L				10.0000	U									
HEXACHLOROBUTADIENE	UG/L				10.0000	U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000	U									
HEXACHLOROETHANE	UG/L				10.0000	U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000	U									
ISOPHORONE	UG/L				10.0000	U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000	U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000	U									
NAPHTHALENE	UG/L				10.0000	U									
NITROBENZENE	UG/L				10.0000	U									
P-CHLOROANILINE	UG/L				10.0000	U									
PENTACHLOROPHENOL	UG/L				50.0000	U									
PHENANTHRENE	UG/L				10.0000	U									
PHENOL	MG/L				10.0000	U									
PYRENE	UG/L				10.0000	U									
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L				5.0000	U									
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000	U									
1,1,2-TRICHLOROETHANE	UG/L				5.0000	U									
1,1-DICHLOROETHANE	UG/L				5.0000	U									
1,1-DICHLOROETHENE	UG/L				5.0000	U									
1,2-DICHLOROETHANE	UG/L				5.0000	U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000	U									

SAMPLE NUMBER:	EMGW_SYSGEN_242			020249		020258			020262			EMGW_SYSGEN_243		
LAB:				IT										
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES														
1,2-DICHLOROPROPANE UG/L				5.0000	U									
2-BUTANONE UG/L				10.0000	U									
2-HEXANONE UG/L				10.0000	U									
4-METHYL-2-PENTANONE UG/L				10.0000	U									
ACETONE UG/L				3.0000	U									
BENZENE UG/L				5.0000	U									
BROMODICHLOROMETHANE UG/L				5.0000	U									
BROMOFORM UG/L				5.0000	U									
BROMOMETHANE UG/L				10.0000	U									
CARBON DISULFIDE UG/L				5.0000	U									
CARBON TETRACHLORIDE UG/L				5.0000	U									
CHLOROBENZENE UG/L				5.0000	U									
CHLOROETHANE UG/L				10.0000	U									
CHLOROFORM UG/L				5.0000	U									
CHLOROMETHANE UG/L				10.0000	U									
CIS-1,3-DICHLOROPROPENE UG/L				5.0000	U									
DIBROMOCHLOROMETHANE UG/L				5.0000	U									
ETHYLBENZENE UG/L				5.0000	U									
METHYLENE CHLORIDE UG/L				5.0000	U									
STYRENE UG/L				5.0000	U									
TETRACHLOROETHENE UG/L				5.0000	U									
TOLUENE UG/L				5.0000	U									
TRANS-1,3-DICHLOROPROPENE UG/L				5.0000	U									
TRICHLOROETHENE UG/L				5.0000	U									
VINYL ACETATE UG/L				10.0000	U									
VINYL CHLORIDE UG/L				10.0000	U									
XYLENES, TOTAL UG/L				5.0000	U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_244	EMGW_SYSGEN_245	EMGW_SYSGEN_246	EMGW_SYSGEN_247	EMGW_SYSGEN_248
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	NET	NET	NET	NET	WMCO
WELL OR BORING NUMBER:	1085	1085	1085	1085	1085
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-JUN-90	19-SEP-90	18-DEC-90	05-MAR-91	04-SEP-91
NORTH COORDINATE:	481970.37	481970.37	481970.37	481970.37	481970.37
EAST COORDINATE:	1381739.56	1381739.56	1381739.56	1381739.56	1381739.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				348.0000		NV	334.0000		NV	378.0000		NV			
AMMONIA	MG/L							0.0500		NV	0.0200		UNV			
CHLORIDE	MG/L	15.0000		NV	15.0000		NV	14.0000		NV	14.0000		NV			
FLUORIDE	MG/L				1.0600		NV	0.7600		NV	0.9400		NV			
NITRATE, AS NITROGEN	MG/L	0.1200		NV	0.1500		NV				0.1400		NV			
NITRATE/NITRITE	MG/L							0.3600		NV						
PH	STD				7.0400		NV	7.5400		NV	7.4800		NV			
PHENOLS	MG/L				0.0050		UNV	0.0100		NV	0.0050		UNV			
PHOSPHORUS	MG/L							0.1000		NV	0.1100		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM				941.0000		NV	1020.0000		NV	961.0000		NV			
SULFATE	MG/L	200.0000		NV	153.0000		NV	206.0000		NV	280.0000		NV			
TOTAL DISSOLVED SOLIDS	MG/L				595.0000		NV	742.0000		NV	579.0000		NV			
TOTAL ORGANIC CARBON	MG/L	4.0000		NV	5.0000		NV	11.0000		NV	12.0000		NV			
TOTAL ORGANIC HALOGENS	MG/L	0.0130		NV	0.0290		NV	0.0100		UNV	0.0100		UNV			
INORGANICS																
ALUMINUM	MG/L										3.7300		NV			
ANTIMONY	MG/L										0.0250		UNV			
ARSENIC	MG/L										0.0025		UNV			
BARIUM	MG/L										0.2000		UNV			
BERYLLIUM	MG/L										0.0100		UNV			
CADMIUM	MG/L										0.0010		UNV			
CALCIUM	MG/L										91.3000		NV			
CHROMIUM	MG/L										0.0460		NV			
COBALT	MG/L										0.0250		UNV			
COPPER	MG/L										0.0250		UNV			
CYANIDE	MG/L							0.0100		UNV	0.0200		UNV			
IRON	MG/L										4.0300		NV			
LEAD	MG/L										0.0060		NV			

SAMPLE NUMBER:		EMGW_SYSGEN_244			EMGW_SYSGEN_245			EMGW_SYSGEN_246			EMGW_SYSGEN_247			EMGW_SYSGEN_248		
LAB:											NET					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L										51.0000		NV			
MANGANESE	MG/L										0.3120		NV			
MERCURY	MG/L										0.0002		UNV			
MOLYBDENUM	MG/L										0.0250		UNV			
NICKEL	MG/L										0.0150		NV			
POTASSIUM	MG/L										3.3600		NV			
SELENIUM	MG/L										0.0025		UNV			
SILVER	MG/L										0.0010		UNV			
SODIUM	MG/L										37.0000		NV			
THALLIUM	MG/L										0.0100		UNV			
VANADIUM	MG/L										0.0500		UNV			
ZINC	MG/L										0.0230		NV			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L							761.0000		NV						
URANIUM, TOTAL	UG/L							6230.0000		NV	7230.0000		NV	4330.0000		NV
URANIUM-234	PCI/L							655.0000		NV						
THORIUM-230	PCI/L							0.2200		UNV	0.8780		NV			
RADIUM-226	PCI/L							1.0000		UNV						
URANIUM-235/236	PCI/L							28.7000		NV						
THORIUM-232	PCI/L							0.2200		UNV	0.2000		UNV			
THORIUM, TOTAL	UG/L							2.0000		UNV	1.6000		UNV			
RADIUM-228	PCI/L							3.0000		UNV						
THORIUM-228	PCI/L							0.5210		NV	0.9710		NV			
NEPTUNIUM-237	PCI/L										0.5000		UNV			
PLUTONIUM-239/240	PCI/L										0.5000		UNV			
PLUTONIUM-238	PCI/L										0.5000		UNV			
TECHNETIUM-99	PCI/L										18.0000		UNV			
RUTHENIUM-106	PCI/L										150.0000		UNV			
CESIUM-137	PCI/L										7.7000		UNV			
GROSS ALPHA	PCI/L							4270.0000		NV	5430.0000		NV			
GROSS BETA	PCI/L							3430.0000		NV	3110.0000		NV			
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV	10.0000		UNV	10.0000		UNV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV			

SAMPLE NUMBER:		EMGW_SYSGEN_244		EMGW_SYSGEN_245		EMGW_SYSGEN_246		EMGW_SYSGEN_247		EMGW_SYSGEN_248	
LAB:		NET		NET		NET		NET			
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
1,1,2-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
1,1-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
1,1-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
1,2-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
1,2-DICHLOROPROPANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
2-BUTANONE	UG/L	2.0000	UNV	2.0000	UNV	2.0000	UNV	2.0000	UNV		
2-HEXANONE	UG/L	2.0000	UNV	2.0000	UNV	2.0000	UNV	2.0000	UNV		
4-METHYL-2-PENTANONE	UG/L	2.0000	UNV	2.0000	UNV	2.0000	UNV	2.0000	UNV		
ACETONE	UG/L	2.0000	UNV	2.0000	UNV	2.0000	UNV	2.0000	UNV		
BENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
BROMODICHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
BROMOFORM	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
BROMOMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
CARBON DISULFIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
CARBON TETRACHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
CHLOROBENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
CHLOROETHANE	UG/L			1.0000	UNV	1.0000	UNV	1.0000	UNV		
CHLOROFORM	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
CHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
METHYLENE CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
STYRENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
VINYL ACETATE	UG/L	2.0000	UNV	2.0000	UNV	2.0000	UNV	2.0000	UNV		
VINYL CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		
XYLENES, TOTAL	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	1.0000	UNV		

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		GW930127-2			GW930421-1			020250			020259			EMGW_SYSGEN_251		
TASK:		RCRA			50.03.23			3.8			3.8			GWMON		
LAB:		NET			LOCKHEED			IT			IT			IT		
WELL OR BORING NUMBER:		1085			1085			1086			1086			1086		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		27-JAN-93			21-APR-93			12-APR-88			13-APR-88			15-JUN-90		
NORTH COORDINATE:		481970.37			481970.37			481984.52			481984.52			481984.52		
EAST COORDINATE:		1381739.56			1381739.56			1381716.38			1381716.38			1381716.38		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	319.0000		NV	390.0000		-									
ALLYL CHLORIDE	UG/L	5.0000		UNV												
AMMONIA	MG/L	0.0200		UNV	0.1400		UJ									
BICARBONATE ALKALINITY	MG/L	390.0000		NV	390.0000		-									
CARBONATE ALKALINITY	MG/L	3.0000		UNV	30.0000		U									
CHLORIDE	MG/L	12.0000		NV	11.0000		-									
FLUORIDE	MG/L	1.1700		NV	0.9400		-									
NITRATE	MG/L	0.5200		NV												
NITRATE/NITRITE	MG/L				0.2600		U									
NITRITE, AS NITROGEN	MG/L	0.0200		UNV												
PH	STD	7.4300		NV	7.8000		-									
PHENOLS	MG/L	0.0100		UNV	0.1500		U									
PHOSPHORUS	MG/L	0.1000		UNV	0.1200		-									
SPECIFIC CONDUCTIVITY	UMHOS/CM	989.0000		NV	870.0000		-									
SULFATE	MG/L	253.0000		NV	160.0000		-									
TOTAL DISSOLVED SOLIDS	MG/L	659.0000		NV	550.0000		-									
TOTAL ORGANIC CARBON	MG/L	15.0000		NV	2.9000		-									
TOTAL ORGANIC HALIDES	MG/L	0.0150		NV	0.0450		U									
TOTAL ORGANIC NITROGEN	MG/L				0.3000		J									
TOTAL SOLIDS	MG/L	784.0000		NV	800.0000		-									
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	1.5900		-	0.0500		U						
ANTIMONY	MG/L	0.0200		UNV	0.0270		U	0.0005		U						
ARSENIC	MG/L	0.0050		UNV	0.0039		J	0.0050		U						
BARIUM	MG/L	0.2000		NV	0.0436		-	0.0840		R						
BERYLLIUM	MG/L	0.0050		UNV	0.0011		-	0.0010		U						
CADMIUM	MG/L	0.0010		UNV	0.0020		U	0.0020		UJ						
CALCIUM	MG/L	107.0000		NV	116.0000		-	109.6000		J						

5704

SAMPLE NUMBER:		GW930127-2		GW930421-1		020250		020259		EMGW_SYSGEN_251	
LAB:		NET		LOCKHEED		IT					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
CHROMIUM	MG/L	0.0097	NV	0.0040	U	0.0200	UR				
COBALT	MG/L	0.0050	UNV	0.0050	U	0.0110	-				
COPPER	MG/L	0.0200	UNV	0.0140	-	0.0100	UR				
CYANIDE	MG/L	0.0050	UNV	0.0200	U	0.0100	UR				
IRON	MG/L	3.6100	NV	4.0800	-	0.0050	U				
LEAD	MG/L	0.0059	NV	0.0033	-	0.0020	U				
MAGNESIUM	MG/L	45.3000	NV	52.8000	-	54.4200	J				
MANGANESE	MG/L	0.1350	NV	0.1700	-	0.5960	-				
MERCURY	MG/L	0.0002	UNV	0.0002	U	0.0002	U				
MOLYBDENUM	MG/L	0.0100	UNV	0.0150	U	0.0200	UNV				
NICKEL	MG/L	0.0130	NV	0.0310	U	0.0200	U				
POTASSIUM	MG/L	2.6400	NV	2.9700	-	5.2300	J				
SELENIUM	MG/L	0.0050	UNV	0.0010	UJ	0.0020	UJ				
SILVER	MG/L	0.0010	UNV	0.0063	-	0.0050	UJ				
SODIUM	MG/L	51.0000	NV	38.5000	-	16.3600	J				
THALLIUM	MG/L	0.0100	UNV	0.0030	UJ	0.0050	U				
VANADIUM	MG/L	0.0500	UNV	0.0070	U	0.0110	-				
ZINC	MG/L	0.0200	UNV	0.0033	-	0.0100	UR				
MISC											
1,2,3-TRICHLOROPROPANE	UG/L	5.0000	UNV								
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	2.0000	UNV								
1,2-DIBROMOETHANE	UG/L	2.0000	UNV								
2-CHLORO-1,3-BUTADIENE	UG/L	5.0000	UNV								
ACROLEIN	UG/L	50.0000	UNV								
ACROLEIN	UG/L	50.0000	UNV								
ACRYLONITRILE	UG/L	50.0000	UNV								
DICHLORODIFLUOROMETHANE	UG/L	10.0000	UNV								
ETHYL CYANIDE	UG/L	20.0000	UNV								
ETHYL METHACRYLATE	UG/L	5.0000	UNV								
IODOMETHANE	UG/L	5.0000	UNV								
METHACRYLONITRILE	UG/L	5.0000	UNV								
METHYL METHACRYLATE	UG/L	5.0000	UNV								
PENTACHLOROETHANE	UG/L	5.0000	UNV								
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000	UNV								
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	20.0000	UNV								
PESTICIDES											
4,4'-DDD	UG/L					0.1000	UNV				
4,4'-DDE	UG/L					0.1000	UNV				
4,4'-DDT	UG/L					0.1000	UNV				
ALDRIN	UG/L					0.0500	UNV				
ALPHA-BHC	UG/L					0.0500	UNV				

SAMPLE NUMBER:	GW930127-2			GW930421-1			020250			020259			EMGW_SYSGEN_251		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
ALPHA-CHLORDANE UG/L							0.5000		UNV						
AROCLOR-1016 UG/L							0.5000		UNV						
AROCLOR-1221 UG/L							0.5000		UNV						
AROCLOR-1232 UG/L							0.5000		UNV						
AROCLOR-1242 UG/L							0.5000		UNV						
AROCLOR-1248 UG/L							0.5000		UNV						
AROCLOR-1254 UG/L							1.0000		UNV						
AROCLOR-1260 UG/L							1.0000		UNV						
BETA-BHC UG/L							0.0500		UNV						
DELTA-BHC UG/L							0.0500		UNV						
DIELDRIN UG/L							0.1000		UNV						
ENDOSULFAN II UG/L							0.1000		UNV						
ENDOSULFAN SULFATE UG/L							0.1000		UNV						
ENDOSULFAN-I UG/L							0.0500		UNV						
ENDRIN UG/L							0.1000		UNV						
ENDRIN KETONE UG/L							0.1000		UNV						
GAMMA-BHC (LINDANE) UG/L							0.0500		UNV						
GAMMA-CHLORDANE UG/L							0.5000		UNV						
HEPTACHLOR UG/L							0.0500		UNV						
HEPTACHLOR EPOXIDE UG/L							0.0500		UNV						
METHOXYCHLOR UG/L							0.5000		UNV						
TOXAPHENE UG/L							1.0000		UNV						
RADIONUCLIDES															
URANIUM-238 PCI/L				1470.0000	303	J				24.3000	4	-	4.4100		NV
URANIUM, TOTAL UG/L	8030.0000		NV	4200.0000		NV				71.0000	11	-	13.4000		NV
URANIUM-234 PCI/L				1300.0000	184	J				21.3000	3.6	-	4.8100		NV
THORIUM-230 PCI/L	0.3000	.1	NV	0.5000	.4	UJ				1.0000		UJ	1.6400		NV
RADIUM-226 PCI/L	1.0000	.4	UNV	1.0000	.2	UJ				1.1000	.7	R	1.0000		UNV
URANIUM-235/236 PCI/L				53.3000	31.6	-				1.2000	.5	-	0.5950		NV
THORIUM-232 PCI/L	0.5000	.2	NV	0.4000	.3	UJ				1.0000		UJ	0.4200		UNV
THORIUM, TOTAL UG/L	4.1000		NV										3.8000		UNV
RADIUM-228 PCI/L	3.0000	1.2	UNV	3.0000	.7	U				3.0000		R	3.0000		UNV
THORIUM-228 PCI/L	0.6000	.2	NV	0.3000	.1	UJ				1.0000		UJ	1.0100		NV
NEPTUNIUM-237 PCI/L										1.0000		UJ			
PLUTONIUM-239/240 PCI/L										1.0000		U			
PLUTONIUM-238 PCI/L										1.0000		U			
STRONTIUM-90 PCI/L										5.0000		U			
TECHNETIUM-99 PCI/L				36.8000	9.9	-				30.0000		U			
RUTHENIUM-106 PCI/L										150.0000		R			
CESIUM-137 PCI/L										20.0000		R			
GROSS ALPHA PCI/L	5280.0000	8.2	NV	15.5000	3.5	NV							13.0000		UNV
GROSS BETA PCI/L	2090.0000	8.3	NV	1520.0000	17.9	NV							16.0000		NV

001146

5704

SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						

SAMPLE NUMBER:	GW930127-2	GW930421-1	020250	020259	EMGW_SYSGEN_251
LAB:			IT		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							50.0000		U						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							50.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		U						
3-NITROANILINE	UG/L							50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							50.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							50.0000		U						
4-NITROPHENOL	UG/L							50.0000		U						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BENZOIC ACID	UG/L							50.0000		U						
BENZYL ALCOHOL	UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						

SAMPLE NUMBER:	GW930127-2			GW930421-1			020250			020259			EMGW_SYSGEN_251		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
CHRYSENE	UG/L							10.0000		U						
CUMENE	UG/L	1.0000		UNV												
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L							50.0000		U						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		U						
PYRENE	UG/L							10.0000		U						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U	5.0000		U						
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
2-BUTANONE	UG/L	10.0000		UNV	10.0000		U	10.0000		U						
2-HEXANONE	UG/L	10.0000		UNV	10.0000		U	10.0000		U						
4-METHYL-2-PENTANONE	UG/L	10.0000		UNV	10.0000		U	10.0000		U						
ACETONE	UG/L	10.0000		UNV	10.0000		UJ	5.0000		U						
BENZENE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
BROMOFORM	UG/L	1.0000		UNV	10.0000		U	5.0000		U						
BROMOMETHANE	UG/L	5.0000		UNV	10.0000		UJ	10.0000		U						

SAMPLE NUMBER:		GW930127-2		GW930421-1		020250		020259		EMGW_SYSGEN_251	
LAB:		NET		LOCKHEED		IT					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
CARBON DISULFIDE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
CARBON TETRACHLORIDE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
CHLOROBENZENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
CHLOROETHANE	UG/L	10.0000	UNV	10.0000	U	10.0000	U				
CHLOROFORM	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
CHLOROMETHANE	UG/L	10.0000	UNV	10.0000	U	10.0000	U				
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
ETHYLBENZENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
METHYLENE CHLORIDE	UG/L	10.0000	UNV	10.0000	U	5.0000	U				
STYRENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TETRACHLOROETHENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TOLUENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TRICHLOROETHENE	UG/L	1.0000	UNV	10.0000	U	5.0000	U				
TRICHLOROFLUOROMETHANE	UG/L	1.0000	UNV								
VINYL ACETATE	UG/L	10.0000	UNV			10.0000	U				
VINYL CHLORIDE	UG/L	1.0000	UNV	10.0000	U	10.0000	U				
XYLENES, TOTAL	UG/L	1.0000	UNV	10.0000	U	5.0000	U				

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_252			EMGW_SYSGEN_253			EMGW_SYSGEN_254			EMGW_SYSGEN_255			020251		
TASK:		GWMON			GWMON			GWMON			GWMON			3.8		
LAB:		NET			NET			NET			NET			IT		
WELL OR BORING NUMBER:		1086			1086			1086			1086			1087		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		18-JUN-90			19-SEP-90			18-DEC-90			05-MAR-91			12-APR-88		
NORTH COORDINATE:		481984.52			481984.52			481984.52			481984.52			481963.01		
EAST COORDINATE:		1381716.38			1381716.38			1381716.38			1381716.38			1381686.38		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				291.0000		NV	299.0000		NV	328.0000		NV			
AMMONIA	MG/L							0.0300		NV	0.0200		UNV			
CHLORIDE	MG/L	9.0000		NV	9.0000		NV	8.0000		NV	8.0000		NV			
FLUORIDE	MG/L				0.8900		NV	0.8000		NV	0.7000		NV			
NITRATE, AS NITROGEN	MG/L	0.0700		NV	0.1600		NV				0.1700		NV			
NITRATE/NITRITE	MG/L							0.3600		NV						
PH	STD				7.1600		NV	7.4600		NV	7.5600		NV			
PHENOLS	MG/L				0.0050		UNV	0.0100		UNV	0.0050		UNV			
PHOSPHORUS	MG/L							0.0700		NV	0.1400		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM				763.0000		NV	779.0000		NV	801.0000		NV			
SULFATE	MG/L	108.0000		NV	128.0000		NV	114.0000		NV	179.0000		NV			
TOTAL DISSOLVED SOLIDS	MG/L				480.0000		NV	536.0000		NV	486.0000		NV			
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	3.0000		NV	6.0000		NV	9.0000		NV			
TOTAL ORGANIC HALOGENS	MG/L	0.0140		NV	0.0100		UNV	0.0100		UNV	0.0100		UNV			
INORGANICS																
ALUMINUM	MG/L										0.8900		NV	0.0500		U
ANTIMONY	MG/L										0.0250		UNV	0.0005		U
ARSENIC	MG/L										0.0025		UNV	0.0050		U
BARIUM	MG/L										0.2000		UNV	0.0660		R
BERYLLIUM	MG/L										0.0100		UNV	0.0010		U
CADMIUM	MG/L										0.0010		UNV	0.0020		UJ
CALCIUM	MG/L										73.4000		NV	108.7000		J
CHROMIUM	MG/L										0.0050		UNV	0.0200		UR
COBALT	MG/L										0.0250		UNV	0.0100		U
COPPER	MG/L										0.0250		UNV	0.0100		UR
CYANIDE	MG/L							0.0100		UNV	0.0050		UNV	0.0100		UR
IRON	MG/L										2.0200		NV	0.2530		J
LEAD	MG/L										0.0050		UNV	0.0020		UJ

001150

8704

SAMPLE NUMBER:		EMGW_SYSGEN_252			EMGW_SYSGEN_253			EMGW_SYSGEN_254			EMGW_SYSGEN_255			020251		
LAB:											NET			IT		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L										39.0000		NV	63.0100		J
MANGANESE	MG/L										0.0640		NV	0.3170		-
MERCURY	MG/L										0.0002		UNV	0.0002		U
MOLYBDENUM	MG/L										0.0250		UNV	0.0200		U
NICKEL	MG/L										0.0060		NV	0.0200		U
POTASSIUM	MG/L										1.6300		NV	31.0000		J
SELENIUM	MG/L										0.0025		UNV	0.0020		UJ
SILVER	MG/L										0.0010		UNV	0.0050		UJ
SODIUM	MG/L										20.8000		NV	18.6500		J
THALLIUM	MG/L										0.0100		UNV	0.0050		U
VANADIUM	MG/L										0.0500		UNV	0.0250		-
ZINC	MG/L										0.0200		UNV	0.0100		UR
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L							4.0600		NV	4.8300		NV			
URANIUM, TOTAL	UG/L							11.2000		NV	14.8000		NV			
URANIUM-234	PCI/L							4.7500		NV	5.4900		NV			
THORIUM-230	PCI/L							0.3890		NV	0.3560		NV			
RADIUM-226	PCI/L										1.0000		UNV			
URANIUM-235/236	PCI/L							0.2350		NV	0.2900		UNV			
THORIUM-232	PCI/L							0.2700		UNV	0.2000		UNV			
THORIUM, TOTAL	UG/L							2.5000		UNV	1.6000		UNV			
RADIUM-228	PCI/L										3.0000		UNV			
THORIUM-228	PCI/L							0.8390		NV	0.5200		NV			
NEPTUNIUM-237	PCI/L										0.5000		UNV			
PLUTONIUM-239/240	PCI/L										0.5000		UNV			
PLUTONIUM-238	PCI/L										0.5000		UNV			
TECHNETIUM-99	PCI/L										20.0000		UNV			
RUTHENIUM-106	PCI/L										150.0000		UNV			
CESIUM-137	PCI/L										7.4000		UNV			
GROSS ALPHA	PCI/L							27.5000		NV	21.5000		NV			
GROSS BETA	PCI/L							17.3000		NV	11.4000		NV			
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV	10.0000		UNV	10.0000		UNV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U

001151

SAMPLE NUMBER:		EMGW_SYSGEN_252			EMGW_SYSGEN_253			EMGW_SYSGEN_254			EMGW_SYSGEN_255			020251		
LAB:		NET			NET			NET			NET			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		U
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		U
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		U
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		U
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
CHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		U
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	020260	020264	020265	020271	020273
TASK:	3.8	3.8	3.8	3.8	3.8
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1087	1087	1087	1087	1087
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-APR-88	14-APR-88	14-APR-88	20-APR-88	21-APR-88
NORTH COORDINATE:	481963.01	481963.01	481963.01	481963.01	481963.01
EAST COORDINATE:	1381686.38	1381686.38	1381686.38	1381686.38	1381686.38
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L				0.2000		-							0.1000		-
CHLORIDE	MG/L				1.3000		-							3.7000		-
FLUORIDE	MG/L				0.8000		-							0.7900		J
NITRATE	MG/L				0.2000		-							0.1000		UR
PHENOLS	MG/L				0.0100		U							0.0100		U
PHOSPHORUS	MG/L				0.0500		U							0.0500		U
SULFATE	MG/L				9.0000		-							135.0000		-
TOTAL ORGANIC NITROGEN	MG/L				0.3000		-							0.3000		-
INORGANICS																
ALUMINUM	MG/L				0.1100		U				0.0500		U			
ANTIMONY	MG/L				0.0007		U				0.0005		U			
ARSENIC	MG/L				0.0020		U				0.0020		UJ			
BARIUM	MG/L				0.0870		R				0.0570		J			
BERYLLIUM	MG/L				0.0010		U				0.0010		U			
CADMIUM	MG/L				0.0020		U				0.0020		U			
CALCIUM	MG/L				105.9000		J				100.8000		J			
CHROMIUM	MG/L				0.0200		U				0.0200		UJ			
COBALT	MG/L				0.0100		U				0.0100		U			
COPPER	MG/L				0.0100		UR				0.0100		UR			
IRON	MG/L				0.0050		UJ				0.0050		U			
LEAD	MG/L				0.0020		UR				0.0020		UR			
MAGNESIUM	MG/L				51.5300		J				59.9100		J			
MANGANESE	MG/L				0.4340		-				0.1940		-			
MERCURY	MG/L				0.0002		U				0.0002		U	0.0002		UNV
MOLYBDENUM	MG/L				0.0200		U				0.0450		UJ			
NICKEL	MG/L				0.0200		U				0.0200		U			
POTASSIUM	MG/L				5.1100		J				6.2600		J			
SELENIUM	MG/L				0.0020		UJ				0.0020		U			

001453

SAMPLE NUMBER:	020260			020264		020265			020271			020273		
LAB:				IT					IT					
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L				0.0005		UJ				0.0005		UJ			
SODIUM	MG/L				17.6600		J				16.5700		-			
THALLIUM	MG/L				0.0010		U				0.0010		UJ			
VANADIUM	MG/L				0.0100		UJ				0.0100		U			
ZINC	MG/L				0.0100		U				0.0100		UR			
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U	0.1000		UNV			
4,4'-DDE	UG/L							0.1000		U	0.1000		UNV			
4,4'-DDT	UG/L							0.1000		U	0.1000		UNV			
ALDRIN	UG/L							0.0500		U	0.0500		UNV			
ALPHA-BHC	UG/L							0.0500		U	0.0500		UNV			
ALPHA-CHLORDANE	UG/L							0.5000		U	0.5000		UNV			
AROCLOR-1016	UG/L							0.5000		U	0.5000		UNV			
AROCLOR-1221	UG/L							0.5000		U	0.5000		UNV			
AROCLOR-1232	UG/L							0.5000		U	0.5000		UNV			
AROCLOR-1242	UG/L							0.5000		U	0.5000		UNV			
AROCLOR-1248	UG/L							0.5000		U	0.5000		UNV			
AROCLOR-1254	UG/L							1.0000		U	1.0000		UNV			
AROCLOR-1260	UG/L							1.0000		U	1.0000		UNV			
BETA-BHC	UG/L							0.0500		U	0.0500		UNV			
DELTA-BHC	UG/L							0.0500		U	0.0500		UNV			
DIELDRIN	UG/L							0.1000		U	0.0500		UNV			
ENDOSULFAN II	UG/L							0.1000		U	0.1000		UNV			
ENDOSULFAN SULFATE	UG/L							0.1000		U	0.1000		UNV			
ENDOSULFAN-I	UG/L							0.0500		U	0.0500		UNV			
ENDRIN	UG/L							0.1000		U	0.0500		UNV			
ENDRIN KETONE	UG/L							0.1000		U	0.1000		UNV			
GAMMA-BHC (LINDANE)	UG/L							0.0500		U	0.0500		UNV			
GAMMA-CHLORDANE	UG/L							0.5000		U	0.5000		UNV			
HEPTACHLOR	UG/L							0.0500		U	0.0500		UNV			
HEPTACHLOR EPOXIDE	UG/L							0.0500		U	0.0500		UNV			
METHOXYCHLOR	UG/L							0.5000		U	0.5000		UNV			
TOXAPHENE	UG/L							1.0000		U	1.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	12.6000	2.4	-												
URANIUM, TOTAL	UG/L	36.0000	6	-												
URANIUM-234	PCI/L	16.0000	2.8	-												
THORIUM-230	PCI/L	1.0000		UJ												
RADIUM-226	PCI/L	1.0000		R												
URANIUM-235/236	PCI/L	1.0000		U												
THORIUM-232	PCI/L	1.0000		UJ												

SAMPLE NUMBER:		020260			020264			020265			020271			020273		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-228	PCI/L	3.0000		R												
THORIUM-228	PCI/L	1.0000		UJ												
NEPTUNIUM-237	PCI/L	1.0000		UJ												
PLUTONIUM-239/240	PCI/L	1.0000		U												
PLUTONIUM-238	PCI/L	1.0000		U												
STRONTIUM-90	PCI/L	5.0000		U												
TECHNETIUM-99	PCI/L	30.0000		U												
RUTHENIUM-106	PCI/L	150.0000		R												
CESIUM-137	PCI/L	20.0000		R												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							10.0000		UJ						
2,4-DINITROTOLUENE	UG/L							50.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							50.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		U						
3-NITROANILINE	UG/L							50.0000		UJ						
4,6-DINITRO-2-METHYLPHENOL	UG/L							10.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							50.0000		UJ						
4-NITROPHENOL	UG/L							50.0000		U						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		UJ						
ANTHRACENE	UG/L							10.0000		UJ						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		UJ						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						

SAMPLE NUMBER:		020260			020264		020265			020271			020273		
LAB:							IT								
SUFFIX/FILTERFLAG:		-			-		NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(K)FLUORANTHENE	UG/L						10.0000		U						
BENZOIC ACID	UG/L						50.0000		U						
BENZYL ALCOHOL	UG/L						10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L						10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L						10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L						10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L						10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L						10.0000		U						
CHRYSENE	UG/L						10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L						10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L						10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L						10.0000		U						
DIBENZOFURAN	UG/L						10.0000		U						
DIETHYL PHTHALATE	UG/L						10.0000		U						
DIMETHYL PHTHALATE	UG/L						10.0000		U						
FLUORANTHENE	UG/L						10.0000		U						
FLUORENE	UG/L						50.0000		UJ						
HEXACHLOROBENZENE	UG/L						10.0000		U						
HEXACHLOROBUTADIENE	UG/L						10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L						10.0000		U						
HEXACHLOROETHANE	UG/L						10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L						10.0000		U						
ISOPHORONE	UG/L						10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L						10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L						10.0000		U						
NAPHTHALENE	UG/L						10.0000		UJ						
NITROBENZENE	UG/L						10.0000		U						
P-CHLOROANILINE	UG/L						10.0000		UJ						
PENTACHLOROPHENOL	UG/L						50.0000		U						
PHENANTHRENE	UG/L						10.0000		U						
PHENOL	MG/L						10.0000		U						
PYRENE	UG/L						10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_256	EMGW_SYSGEN_257	EMGW_SYSGEN_258	EMGW_SYSGEN_259	EMGW_SYSGEN_260
TASK:	GWMON	GWMON	GWMON	GWMON	GWMON
LAB:	IT	NET	NET	NET	NET
WELL OR BORING NUMBER:	1087	1087	1087	1087	1087
DEPTH:	-	-	-	-	-
DATE COLLECTED:	15-JUN-90	18-JUN-90	19-SEP-90	13-DEC-90	05-MAR-91
NORTH COORDINATE:	481963.01	481963.01	481963.01	481963.01	481963.01
EAST COORDINATE:	1381686.38	1381686.38	1381686.38	1381686.38	1381686.38
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							378.0000		NV	378.0000		NV	385.0000		NV
AMMONIA	MG/L										0.0300		NV	0.0200		UNV
CHLORIDE	MG/L				10.0000		NV	15.0000		NV	11.0000		NV	11.0000		NV
FLUORIDE	MG/L							1.2200		NV	1.1800		NV	0.9700		NV
NITRATE, AS NITROGEN	MG/L				0.0200		UNV	0.0700		NV				0.0200		UNV
NITRATE/NITRITE	MG/L										0.0500		NV			
PH	STD							7.4500		NV	7.3200		NV	7.6700		NV
PHENOLS	MG/L							0.0050		UNV	0.0060		NV	0.0050		UNV
PHOSPHORUS	MG/L										0.1500		NV	0.3800		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM							861.0000		NV	995.0000		NV	883.0000		NV
SULFATE	MG/L				118.0000		NV	116.0000		NV	119.0000		NV	155.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L							505.0000		NV	612.0000		NV	428.0000		NV
TOTAL ORGANIC CARBON	MG/L				2.0000		NV	4.0000		NV	3.0000		NV	5.0000		NV
TOTAL ORGANIC HALOGENS	MG/L				0.0120		NV	0.0100		UNV	0.0100		UNV	0.0100		UNV
INORGANICS																
ALUMINUM	MG/L													1.8900		NV
ANTIMONY	MG/L													0.0250		UNV
ARSENIC	MG/L													0.0025		UNV
BARIUM	MG/L													0.2000		UNV
BERYLLIUM	MG/L													0.0100		UNV
CADMIUM	MG/L													0.0010		UNV
CALCIUM	MG/L													78.8000		NV
CHROMIUM	MG/L													0.0230		NV
COBALT	MG/L													0.0250		UNV
COPPER	MG/L													0.0250		UNV
CYANIDE	MG/L										0.0050		UNV	0.0200		UNV
IRON	MG/L													4.5100		NV
LEAD	MG/L													0.0050		UNV

001157

SAMPLE NUMBER:	EMGW_SYSGEN_256			EMGW_SYSGEN_257			EMGW_SYSGEN_258			EMGW_SYSGEN_259			EMGW_SYSGEN_260		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L													55.0000		NV
MANGANESE	MG/L													0.0940		NV
MERCURY	MG/L													0.0002		UNV
MOLYBDENUM	MG/L													0.0250		UNV
NICKEL	MG/L													0.0140		NV
POTASSIUM	MG/L													2.6700		NV
SELENIUM	MG/L													0.0025		UNV
SILVER	MG/L													0.0010		UNV
SODIUM	MG/L													16.4000		NV
THALLIUM	MG/L													0.0100		UNV
VANADIUM	MG/L													0.0500		UNV
ZINC	MG/L													0.0200		UNV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	11.3000		NV							13.9000		NV	0.2000		UNV
URANIUM, TOTAL	UG/L	33.6000		NV							0.0000			16.8000		NV
URANIUM-234	PCI/L	11.5000		NV							14.7000		NV	0.2000		UNV
THORIUM-230	PCI/L	3.3300		NV							0.2520		NV	0.3410		NV
RADIUM-226	PCI/L	1.8200		NV							1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L	0.4590		NV							2.5300		NV	0.2000		UNV
THORIUM-232	PCI/L	0.7100		UNV							0.2300		UNV	0.2700		UNV
THORIUM, TOTAL	UG/L	6.4000		UNV							2.0000		UNV	2.4000		UNV
RADIUM-228	PCI/L	3.0000		UNV							3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L	1.6900		NV							0.2300		UNV	0.5810		NV
NEPTUNIUM-237	PCI/L													0.5000		UNV
PLUTONIUM-239/240	PCI/L													0.5000		UNV
PLUTONIUM-238	PCI/L													0.5000		UNV
TECHNETIUM-99	PCI/L													21.0000		UNV
RUTHENIUM-106	PCI/L													150.0000		UNV
CESIUM-137	PCI/L													7.3000		UNV
GROSS ALPHA	PCI/L	20.8000		NV							19.8000		NV	26.1000		NV
GROSS BETA	PCI/L	20.8000		NV							15.3000		NV	12.5000		NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV

SAMPLE NUMBER:		EMGW_SYSGEN_256			EMGW_SYSGEN_257			EMGW_SYSGEN_258			EMGW_SYSGEN_259			EMGW_SYSGEN_260		
LAB:					NET						NET			NET		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L				2.0000		UNV				2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L				2.0000		UNV				2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV				2.0000		UNV	2.0000		UNV
ACETONE	UG/L				2.0000		UNV				2.0000		UNV	2.0000		UNV
BENZENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
STYRENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
TOLUENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L				2.0000		UNV				2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L				1.0000		UNV				1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	020252	020256	EMGW_SYSGEN_261	EMGW_SYSGEN_262	EMGW_SYSGEN_263
TASK:	3.8	3.8	GWMON	GWMON	GWMON
LAB:	IT	IT	IT	NET	NET
WELL OR BORING NUMBER:	1088	1088	1088	1088	1088
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-APR-88	13-APR-88	15-JUN-90	18-JUN-90	19-SEP-90
NORTH COORDINATE:	481977.23	481977.23	481977.23	481977.23	481977.23
EAST COORDINATE:	1381668.87	1381668.87	1381668.87	1381668.87	1381668.87
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													336.0000		NV
AMMONIA	MG/L				0.2000		J									
CHLORIDE	MG/L				3.1000		-				21.0000		NV	14.0000		NV
FLUORIDE	MG/L				1.2000		-							1.1200		NV
NITRATE	MG/L				0.2900		-									
NITRATE, AS NITROGEN	MG/L										0.0500		NV	0.1000		NV
PH	STD													7.4900		NV
PHENOLS	MG/L				0.0100		U							0.0050		UNV
PHOSPHORUS	MG/L				0.0500		U									
SPECIFIC CONDUCTIVITY	UMHOS/CM													761.0000		NV
SULFATE	MG/L				7.0000		-				76.0000		NV	75.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L													455.0000		NV
TOTAL ORGANIC CARBON	MG/L										2.0000		NV	3.0000		NV
TOTAL ORGANIC HALOGENS	MG/L										0.0100		UNV	0.0100		UNV
TOTAL ORGANIC NITROGEN	MG/L				0.3000		J									
INORGANICS																
ALUMINUM	MG/L	0.0500		U	0.1600		U									
ANTIMONY	MG/L	0.0005		U	0.0021		U									
ARSENIC	MG/L	0.0050		U	0.0020		U									
BARIUM	MG/L	0.1230		R	0.1320		R									
BERYLLIUM	MG/L	0.0010		U	0.0010		U									
CADMIUM	MG/L	0.0020		UJ	0.0020		U									
CALCIUM	MG/L	86.9000		J	85.3000		J									
CHROMIUM	MG/L	0.0200		UR	0.0200		U									
COBALT	MG/L	0.0100		U	0.0100		U									
COPPER	MG/L	0.0100		UR	0.0100		UR									
CYANIDE	MG/L	0.0100		UR												
IRON	MG/L	0.0050		U	0.0050		UJ									

001160

5704

SAMPLE NUMBER:		020252		020256		EMGW_SYSGEN_261			EMGW_SYSGEN_262			EMGW_SYSGEN_263		
LAB:		IT		IT										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS														
LEAD	MG/L	0.0020	U	0.0020	UJ									
MAGNESIUM	MG/L	45.7100	J	44.4900	J									
MANGANESE	MG/L	0.1510	-	0.1320	-									
MERCURY	MG/L	0.0002	U	0.0002	U									
MOLYBDENUM	MG/L	0.0230	UNV	0.0680	U									
NICKEL	MG/L	0.0200	U	0.0200	U									
POTASSIUM	MG/L	5.1200	J	4.8500	UJ									
SELENIUM	MG/L	0.0020	UJ	0.0020	UJ									
SILVER	MG/L	0.0050	UJ	0.0005	UJ									
SODIUM	MG/L	11.7500	J	11.2200	J									
THALLIUM	MG/L	0.0050	U	0.0010	U									
VANADIUM	MG/L	0.0100	U	0.0100	UJ									
ZINC	MG/L	0.0100	UR	0.0100	U									
MISC														
TRANS-1,2-DICHLOROETHENE	UG/L											1.0000		UNV
PESTICIDES														
4,4'-DDD	UG/L	0.1000	UNV											
4,4'-DDE	UG/L	0.1000	UNV											
4,4'-DDT	UG/L	0.1000	UNV											
ALDRIN	UG/L	0.0500	UNV											
ALPHA-BHC	UG/L	0.0500	UNV											
ALPHA-CHLORDANE	UG/L	0.5000	UNV											
AROCLOR-1016	UG/L	0.5000	UNV											
AROCLOR-1221	UG/L	0.5000	UNV											
AROCLOR-1232	UG/L	0.5000	UNV											
AROCLOR-1242	UG/L	0.5000	UNV											
AROCLOR-1248	UG/L	0.5000	UNV											
AROCLOR-1254	UG/L	1.0000	UNV											
AROCLOR-1260	UG/L	1.0000	UNV											
BETA-BHC	UG/L	0.0500	UNV											
DELTA-BHC	UG/L	0.0500	UNV											
DIELDRIN	UG/L	0.1000	UNV											
ENDOSULFAN II	UG/L	0.1000	UNV											
ENDOSULFAN SULFATE	UG/L	0.1000	UNV											
ENDOSULFAN-I	UG/L	0.0500	UNV											
ENDRIN	UG/L	0.1000	UNV											
ENDRIN KETONE	UG/L	0.1000	UNV											
GAMMA-BHC (LINDANE)	UG/L	0.0500	UNV											
GAMMA-CHLORDANE	UG/L	0.5000	UNV											
HEPTACHLOR	UG/L	0.0500	UNV											
HEPTACHLOR EPOXIDE	UG/L	0.0500	UNV											

SAMPLE NUMBER:	020252	020256	EMGW_SYSGEN_261	EMGW_SYSGEN_262	EMGW_SYSGEN_263
LAB:	IT				
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
METHOXYCHLOR	UG/L	0.5000		UNV												
TOXAPHENE	UG/L	1.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L				11.1000	1.9	-	5.4700		NV						
URANIUM, TOTAL	UG/L				33.0000	5	-	16.4000		NV						
URANIUM-234	PCI/L				11.7000	2	-	5.3600		NV						
THORIUM-230	PCI/L				1.0000		UJ	2.2400		NV						
RADIUM-226	PCI/L				1.0000		R	1.0000		UNV						
URANIUM-235/236	PCI/L				1.0000		U	0.2710		NV						
THORIUM-232	PCI/L				1.0000		UJ	0.2300		UNV						
THORIUM, TOTAL	UG/L							2.1000		UNV						
RADIUM-228	PCI/L				3.0000		R	3.0000		UNV						
THORIUM-228	PCI/L				1.5000	.6	J	0.9630		NV						
NEPTUNIUM-237	PCI/L				1.0000		UJ									
PLUTONIUM-239/240	PCI/L				1.0000		U									
PLUTONIUM-238	PCI/L				1.0000		U									
TECHNETIUM-99	PCI/L				30.0000		U									
RUTHENIUM-106	PCI/L				150.0000		R									
CESIUM-137	PCI/L				20.0000		R									
GROSS ALPHA	PCI/L							14.5000		NV						
GROSS BETA	PCI/L							15.2000		NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		U												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLOROETHYLVINYL ETHER	UG/L													10.0000		UNV
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U												

001162

5704

SAMPLE NUMBER:		020252		020256		EMGW_SYSGEN_261			EMGW_SYSGEN_262			EMGW_SYSGEN_263		
LAB:		IT												
SUFFIX/FILTERFLAG:		NONE-UNF		-		-			-			-		
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
3-NITROANILINE	UG/L	50.0000	U											
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000	U											
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000	U											
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000	U											
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000	U											
4-METHYLPHENOL	UG/L	10.0000	U											
4-NITROANILINE	UG/L	50.0000	U											
4-NITROPHENOL	UG/L	50.0000	U											
ACENAPHTHENE	UG/L	10.0000	U											
ACENAPHTHYLENE	UG/L	10.0000	U											
ANTHRACENE	UG/L	10.0000	U											
BENZO(A)ANTHRACENE	UG/L	10.0000	U											
BENZO(A)PYRENE	UG/L	10.0000	U											
BENZO(B)FLUORANTHENE	UG/L	10.0000	U											
BENZO(G,H,I)PERYLENE	UG/L	10.0000	U											
BENZO(K)FLUORANTHENE	UG/L	10.0000	U											
BENZOIC ACID	UG/L	50.0000	U											
BENZYL ALCOHOL	UG/L	10.0000	U											
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000	U											
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	U											
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	U											
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	6.0000	J											
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U											
CHRYSENE	UG/L	10.0000	U											
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U											
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U											
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U											
DIBENZOFURAN	UG/L	10.0000	U											
DIETHYL PHTHALATE	UG/L	10.0000	U											
DIMETHYL PHTHALATE	UG/L	10.0000	U											
FLUORANTHENE	UG/L	10.0000	U											
FLUORENE	UG/L	10.0000	U											
HEXACHLOROBENZENE	UG/L	10.0000	U											
HEXACHLOROBUTADIENE	UG/L	10.0000	U											
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U											
HEXACHLOROETHANE	UG/L	10.0000	U											
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U											
ISOPHORONE	UG/L	10.0000	U											
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U											
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U											
NAPHTHALENE	UG/L	10.0000	U											
NITROBENZENE	UG/L	10.0000	U											
P-CHLOROANILINE	UG/L	10.0000	U											
PENTACHLOROPHENOL	UG/L	50.0000	U											
PHENANTHRENE	UG/L	10.0000	U											

SAMPLE NUMBER:		020252		020256			EMGW_SYSGEN_261			EMGW_SYSGEN_262			EMGW_SYSGEN_263		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENOL	MG/L	10.0000		U												
PYRENE	UG/L	10.0000		U												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	10.0000		U							2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	10.0000		U							2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	10.0000		U							2.0000		UNV	2.0000		UNV
ACETONE	UG/L	31.0000		U							2.0000		UNV	2.0000		UNV
BENZENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	10.0000		U							1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	10.0000		U										1.0000		UNV
CHLOROFORM	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	10.0000		U							1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	12.0000		-							1.0000		UNV	1.0000		UNV
STYRENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	10.0000		U							2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	10.0000		U							1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	5.0000		U							1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_263D			EMGW_SYSGEN_264			EMGW_SYSGEN_265			020257			020263		
TASK:		GWMON			GWMON			GWMON			3.8			3.8		
LAB:		NET			NET			NET			IT			IT		
WELL OR BORING NUMBER:		1088			1088			1088			1089			1089		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		19-SEP-90			13-DEC-90			05-MAR-91			13-APR-88			14-APR-88		
NORTH COORDINATE:		481977.23			481977.23			481977.23			481966.04			481966.04		
EAST COORDINATE:		1381668.87			1381668.87			1381668.87			1381716.47			1381716.47		
QA TYPE:		DUPLICATE			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:		EMGW_SYSGEN_263														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	310.0000		NV	341.0000		NV	356.0000		NV						
AMMONIA	MG/L				0.0400		NV	0.0200		UNV						
CHLORIDE	MG/L	21.0000		NV	20.0000		NV	22.0000		NV						
FLUORIDE	MG/L	1.2400		NV	0.9900		NV	1.0000		NV						
NITRATE, AS NITROGEN	MG/L	0.1100		NV				0.0200		UNV						
NITRATE/NITRITE	MG/L				0.0500		NV									
PH	STD	7.5100		NV	7.1100		NV	7.6600		NV						
PHENOLS	MG/L	0.0050		UNV	0.0100		NV	0.0050		UNV						
PHOSPHORUS	MG/L				0.0200		UNV	0.1300		NV						
SPECIFIC CONDUCTIVITY	UMHOS/CM	767.0000		NV	877.0000		NV	805.0000		NV						
SULFATE	MG/L	69.0000		NV	84.0000		NV	93.0000		NV						
TOTAL DISSOLVED SOLIDS	MG/L	455.0000		NV	528.0000		NV	408.0000		NV						
TOTAL ORGANIC CARBON	MG/L	2.0000		NV	1.0000		UNV	8.0000		NV						
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV						
INORGANICS																
ALUMINUM	MG/L							0.5100		NV						
ANTIMONY	MG/L							0.0250		UNV						
ARSENIC	MG/L							0.0025		UNV						
BARIUM	MG/L							0.2000		UNV						
BERYLLIUM	MG/L							0.0100		UNV						
CADMIUM	MG/L							0.0010		UNV						
CALCIUM	MG/L							74.6000		NV						
CHROMIUM	MG/L							0.0060		NV						
COBALT	MG/L							0.0250		UNV						
COPPER	MG/L							0.0250		UNV						
CYANIDE	MG/L				0.0050		UNV	0.0200		UNV	0.0100		UR			
IRON	MG/L							0.7540		NV						
LEAD	MG/L							0.0050		UNV						

001165

SAMPLE NUMBER:		EMGW_SYSGEN_263D			EMGW_SYSGEN_264			EMGW_SYSGEN_265			020257			020263		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L							45.0000		NV						
MANGANESE	MG/L							0.0250		NV						
MERCURY	MG/L							0.0002		UNV						
MOLYBDENUM	MG/L							0.0250		UNV						
NICKEL	MG/L							0.0050		UNV						
POTASSIUM	MG/L							1.5200		NV						
SELENIUM	MG/L							0.0025		UNV						
SILVER	MG/L							0.0010		UNV						
SODIUM	MG/L							12.5000		NV						
THALLIUM	MG/L							0.0100		UNV						
VANADIUM	MG/L							0.0500		UNV						
ZINC	MG/L							0.0200		UNV						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U	0.1000		U
4,4'-DDE	UG/L										0.1000		U	0.1000		U
4,4'-DDT	UG/L										0.1000		U	0.1000		U
ALDRIN	UG/L										0.0500		U	0.0500		U
ALPHA-BHC	UG/L										0.0500		U	0.0500		U
ALPHA-CHLORDANE	UG/L										0.5000		U	0.5000		U
AROCLOR-1016	UG/L										0.5000		U	0.5000		U
AROCLOR-1221	UG/L										0.5000		U	0.5000		U
AROCLOR-1232	UG/L										0.5000		U	0.5000		U
AROCLOR-1242	UG/L										0.5000		U	0.5000		U
AROCLOR-1248	UG/L										0.5000		U	0.5000		U
AROCLOR-1254	UG/L										1.0000		U	1.0000		U
AROCLOR-1260	UG/L										1.0000		U	1.0000		U
BETA-BHC	UG/L										0.0500		U	0.0500		U
DELTA-BHC	UG/L										0.0500		U	0.0500		U
DIELDRIN	UG/L										0.1000		U	0.1000		U
ENDOSULFAN II	UG/L										0.1000		U	0.1000		U
ENDOSULFAN SULFATE	UG/L										0.1000		U	0.1000		U
ENDOSULFAN-I	UG/L										0.0500		U	0.0500		U
ENDRIN	UG/L										0.1000		U	0.1000		U
ENDRIN KETONE	UG/L										0.1000		U	0.1000		U
GAMMA-BHC (LINDANE)	UG/L										0.0500		U	0.0500		U
GAMMA-CHLORDANE	UG/L										0.5000		U	0.5000		U
HEPTACHLOR	UG/L										0.0500		U	0.0500		U
HEPTACHLOR EPOXIDE	UG/L										0.0500		U	0.0500		U
METHOXYCHLOR	UG/L										0.5000		U	0.5000		U

SAMPLE NUMBER:		EMGW_SYSGEN_263D			EMGW_SYSGEN_264			EMGW_SYSGEN_265			020257			020263		
LAB:											IT			IT		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
TOXAPHENE	UG/L										1.0000		U	1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L							4.7500		NV	68.2000	12.8	-			
URANIUM, TOTAL	UG/L				9.3100		NV	7.8200		NV	178.0000	29	-			
URANIUM-234	PCI/L							6.3000		NV	53.0000	10.3	-			
THORIUM-230	PCI/L				0.3140		NV	0.2510		NV	1.6000	.6	J			
RADIUM-226	PCI/L				1.0000		UNV	1.0000		UNV	1.0000		R			
URANIUM-235/236	PCI/L							0.6900		UNV	4.2000	1.6	-			
THORIUM-232	PCI/L				0.2800		UNV	0.2000		UNV	1.1000	.5	J			
THORIUM, TOTAL	UG/L				2.5000		UNV	1.7000		UNV	10.0324	.5	NV			
RADIUM-228	PCI/L				3.0000		UNV	3.0000		UNV	3.0000		R			
THORIUM-228	PCI/L				0.2800		UNV	0.4460		NV	2.5000	.8	J			
NEPTUNIUM-237	PCI/L							0.5000		UNV	1.0000		UJ			
PLUTONIUM-239/240	PCI/L							0.5000		UNV	1.0000		U			
PLUTONIUM-238	PCI/L							0.5000		UNV	1.0000		U			
STRONTIUM-90	PCI/L										5.0000		U			
TECHNETIUM-99	PCI/L							20.0000		UNV	30.0000		U			
RUTHENIUM-106	PCI/L							150.0000		UNV	150.0000		R			
CESIUM-137	PCI/L							73.0000		UNV	20.0000		R			
GROSS ALPHA	PCI/L				6.2000		UNV	9.2500		NV						
GROSS BETA	PCI/L				6.2200		NV	10.7000		NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													10.0000		UJ
2,4-DINITROTOLUENE	UG/L													50.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV						
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U

C01167

SAMPLE NUMBER:		EMGW_SYSGEN_263D			EMGW_SYSGEN_264			EMGW_SYSGEN_265			020257			020263		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L													50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L													10.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		UJ
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		UJ
ANTHRACENE	UG/L													10.0000		UJ
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		UJ
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													2.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													50.0000		UJ
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		UJ
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		UJ
PENTACHLOROPHENOL	UG/L													50.0000		U
PHENANTHRENE	UG/L													10.0000		U

001168

9704

SAMPLE NUMBER:		EMGW_SYSGEN_263D			EMGW_SYSGEN_264			EMGW_SYSGEN_265			020257			020263		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UR			
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UR			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		UJ			
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV	10.0000		UJ			
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	020270	020272	EMGW_SYSGEN_266	EMGW_SYSGEN_267	EMGW_SYSGEN_268
TASK:	3.8	3.8	GWMON	GWMON	GWMON
LAB:	IT	IT	NET	NET	NET
WELL OR BORING NUMBER:	1089	1089	1089	1089	1089
DEPTH:	-	-	-	-	-
DATE COLLECTED:	20-APR-88	21-APR-88	18-JUN-90	19-SEP-90	18-DEC-90
NORTH COORDINATE:	481966.04	481966.04	481966.04	481966.04	481966.04
EAST COORDINATE:	1381716.47	1381716.47	1381716.47	1381716.47	1381716.47
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										364.0000		NV	336.0000		NV
AMMONIA	MG/L	0.1000		NV										0.0700		NV
CHLORIDE	MG/L				3.6000		-	15.0000		NV	15.0000		NV	14.0000		NV
FLUORIDE	MG/L				0.6500		J				1.2500		NV	0.8800		NV
NITRATE	MG/L	169.0000		NV												
NITRATE, AS NITROGEN	MG/L							0.0400		NV	0.1200		NV			
NITRATE/NITRITE	MG/L													0.0500		NV
PH	STD										7.2600		NV	7.3700		NV
PHENOLS	MG/L	0.0100		UNV							0.0050		UNV	0.0100		UNV
PHOSPHORUS	MG/L				0.0500		U							0.1800		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM										1060.0000		NV	1050.0000		NV
SULFATE	MG/L				345.0000		-	163.0000		NV	256.0000		NV	218.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L										665.0000		NV	830.0000		NV
TOTAL ORGANIC CARBON	MG/L							5.0000		NV	5.0000		NV	13.0000		NV
TOTAL ORGANIC HALOGENS	MG/L							0.0100		UNV	0.0100		UNV	0.0100		UNV
TOTAL ORGANIC NITROGEN	MG/L	0.6000		NV												
INORGANICS																
ALUMINUM	MG/L	0.0500		U												
ANTIMONY	MG/L	0.0005		U												
ARSENIC	MG/L	0.0020		UJ												
BARIUM	MG/L	0.0650		J												
BERYLLIUM	MG/L	0.0010		U												
CADMIUM	MG/L	0.0020		U												
CALCIUM	MG/L	153.6000		J												
CHROMIUM	MG/L	0.0200		UJ												
COBALT	MG/L	0.0100		U												
COPPER	MG/L	0.0100		UR												
CYANIDE	MG/L													0.0100		UNV

001170

5704

SAMPLE NUMBER:		020270			020272			EMGW_SYSGEN_266			EMGW_SYSGEN_267			EMGW_SYSGEN_268		
LAB:														NET		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
IRON	MG/L	0.0050		U												
LEAD	MG/L	0.0020		UR												
MAGNESIUM	MG/L	84.7000		J												
MANGANESE	MG/L	0.2760		J												
MERCURY	MG/L	0.0002		UJ												
MOLYBDENUM	MG/L	0.0390		UJ												
NICKEL	MG/L	0.0200		U												
POTASSIUM	MG/L	8.2400		J												
SELENIUM	MG/L	0.0020		U												
SILVER	MG/L	0.0005		UJ												
SODIUM	MG/L	25.8700		-												
THALLIUM	MG/L	0.0010		UJ												
VANADIUM	MG/L	0.0140		U												
ZINC	MG/L	0.0100		UR												
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L							24.6000		NV				16.1000		NV
URANIUM, TOTAL	UG/L							73.8000		NV				43.6000		NV
URANIUM-234	PCI/L							21.5000		NV				14.9000		NV
THORIUM-230	PCI/L							10.4000		NV				0.5600		UNV
RADIUM-226	PCI/L							1.0100		NV				1.0000		UNV
URANIUM-235/236	PCI/L							1.2500		NV				1.0000		NV
THORIUM-232	PCI/L							3.7500		NV				0.5600		UNV
THORIUM, TOTAL	UG/L							33.8000		NV				5.1000		UNV
RADIUM-228	PCI/L							3.0000		UNV				3.0000		UNV
THORIUM-228	PCI/L							6.2400		NV				1.3400		NV
GROSS ALPHA	PCI/L							103.0000		NV				30.2000		NV
GROSS BETA	PCI/L							94.3000		NV				60.9000		NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV

SAMPLE NUMBER:	020270			020272			EMGW_SYSGEN_266			EMGW_SYSGEN_267			EMGW_SYSGEN_268		
LAB:							NET			NET			NET		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL) UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
2-HEXANONE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
ACETONE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
BENZENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE UG/L										1.0000		UNV	1.0000		UNV
CHLOROFORM UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
STYRENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
VINYL ACETATE UG/L							2.0000		UNV	2.0000		UNV	2.0000		UNV
VINYL CHLORIDE UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_269			020253			020255			EMGW_SYSGEN_270			EMGW_SYSGEN_271		
TASK:		GWMON			3.8			3.8			GWMON			GWMON		
LAB:		NET			IT			IT			NET			NET		
WELL OR BORING NUMBER:		1089			1090			1090			1090			1090		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		05-MAR-91			12-APR-88			13-APR-88			18-JUN-90			19-SEP-90		
NORTH COORDINATE:		481966.04			481995.45			481995.45			481995.45			481995.45		
EAST COORDINATE:		1381716.47			1381684.46			1381684.46			1381684.46			1381684.46		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	341.0000		NV										346.0000		NV
AMMONIA	MG/L	0.0300		NV				0.3000		J						
CHLORIDE	MG/L	14.0000		NV				1.3000		-	13.0000		NV	11.0000		NV
FLUORIDE	MG/L	0.9900		NV				1.0000		-				1.2000		NV
NITRATE	MG/L							0.2800		-						
NITRATE, AS NITROGEN	MG/L	0.0200		UNV							0.0300		NV	0.0500		NV
PH	STD	7.3800		NV										7.3100		NV
PHENOLS	MG/L	0.0050		UNV				0.0100		U				0.0050		UNV
PHOSPHORUS	MG/L	0.7400		NV				0.0500		U						
SPECIFIC CONDUCTIVITY	UMHOS/CM	1060.0000		NV										828.0000		NV
SULFATE	MG/L	363.0000		NV				7.0000		-	148.0000		NV	111.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L	650.0000		NV										475.0000		NV
TOTAL ORGANIC CARBON	MG/L	13.0000		NV							3.0000		NV	3.0000		NV
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV							0.0210		NV	0.0270		NV
TOTAL ORGANIC NITROGEN	MG/L							0.2000		J						
INORGANICS																
ALUMINUM	MG/L	2.1500		NV	0.0500		U	0.0900		U						
ANTIMONY	MG/L	0.0250		UNV	0.0005		U	0.0005		U						
ARSENIC	MG/L	0.0025		UNV	0.0050		U	0.0020		U						
BARIUM	MG/L	0.2000		UNV	0.0730		R	0.0790		R						
BERYLLIUM	MG/L	0.0100		UNV	0.0010		U	0.0010		U						
CADMIUM	MG/L	0.0010		UNV	0.0020		UJ	0.0020		U						
CALCIUM	MG/L	106.0000		NV	81.6000		J	84.1000		J						
CHROMIUM	MG/L	0.0430		NV	0.0200		UR	0.0200		U						
COBALT	MG/L	0.0250		UNV	0.0100		-	0.0100		U						
COPPER	MG/L	0.0250		UNV	0.0100		UR	0.0100		UR						
CYANIDE	MG/L	0.0200		UNV	0.0100		UR									
IRON	MG/L	5.0500		NV	0.2280		-	0.2470		J						

001173

SAMPLE NUMBER:	EMGW_SYSGEN_269			020253		020255			EMGW_SYSGEN_270			EMGW_SYSGEN_271		
LAB:	NET			IT		IT								
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF		NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L	0.0050		UNV	0.0020		U	0.0200		UJ						
MAGNESIUM	MG/L	55.0000		NV	47.1100		J	47.8900		J						
MANGANESE	MG/L	0.2290		NV	0.1810		-	0.1910		-						
MERCURY	MG/L	0.0002		UNV	0.0002		U	0.0002		U						
MOLYBDENUM	MG/L	0.0250		UNV	0.0200		UNV	0.0360		U						
NICKEL	MG/L	0.0100		NV	0.0200		U	0.0200		U						
POTASSIUM	MG/L	3.8600		NV	3.7300		J	3.6400		J						
SELENIUM	MG/L	0.0025		UNV	0.0020		UJ	0.0020		UJ						
SILVER	MG/L	0.0010		UNV	0.0050		UJ	0.0005		UJ						
SODIUM	MG/L	34.7000		NV	17.4700		J	16.3700		J						
THALLIUM	MG/L	0.0100		UNV	0.0050		U	0.0100		U						
VANADIUM	MG/L	0.0500		UNV	0.0100		U	0.0100		UJ						
ZINC	MG/L	0.0200		UNV	0.0100		UR	0.0100		U						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV										1.0000		UNV
PESTICIDES																
4,4'-DDD	UG/L				0.1000		UNV									
4,4'-DDE	UG/L				0.1000		UNV									
4,4'-DDT	UG/L				0.1000		UNV									
ALDRIN	UG/L				0.0500		UNV									
ALPHA-BHC	UG/L				0.0500		UNV									
ALPHA-CHLORDANE	UG/L				0.5000		UNV									
AROCLOR-1016	UG/L				0.5000		UNV									
AROCLOR-1221	UG/L				0.5000		UNV									
AROCLOR-1232	UG/L				0.5000		UNV									
AROCLOR-1242	UG/L				0.5000		UNV									
AROCLOR-1248	UG/L				0.5000		UNV									
AROCLOR-1254	UG/L				1.0000		UNV									
AROCLOR-1260	UG/L				1.0000		UNV									
BETA-BHC	UG/L				0.0500		UNV									
DELTA-BHC	UG/L				0.0500		UNV									
DIELDRIN	UG/L				0.1000		UNV									
ENDOSULFAN II	UG/L				0.1000		UNV									
ENDOSULFAN SULFATE	UG/L				0.1000		UNV									
ENDOSULFAN-I	UG/L				0.0500		UNV									
ENDRIN	UG/L				0.1000		UNV									
ENDRIN KETONE	UG/L				0.1000		UNV									
GAMMA-BHC (LINDANE)	UG/L				0.0500		UNV									
GAMMA-CHLORDANE	UG/L				0.5000		UNV									
HEPTACHLOR	UG/L				0.0500		UNV									
HEPTACHLOR EPOXIDE	UG/L				0.0500		UNV									

SAMPLE NUMBER:		EMGW_SYSGEN_269			020253		020255			EMGW_SYSGEN_270			EMGW_SYSGEN_271		
LAB:					IT										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
METHOXYCHLOR	UG/L				0.5000				UNV						
TOXAPHENE	UG/L				1.0000				UNV						
RADIONUCLIDES															
URANIUM-238	PCI/L	14.2000		NV			6.2000	1.2	-	6.8700		NV			
URANIUM, TOTAL	UG/L	33.5000		NV			16.0000	2	-	20.6000		NV			
URANIUM-234	PCI/L	10.0000		NV			6.1000	1.2	-	6.7300		NV			
THORIUM-230	PCI/L	0.6160		NV			1.0000		UJ	1.8300		NV			
RADIUM-226	PCI/L	1.0000		UNV			1.0000		R	1.0000		UNV			
URANIUM-235/236	PCI/L	0.9580		NV			1.0000		U	0.4580		NV			
THORIUM-232	PCI/L	0.3000		UNV			1.0000		UJ	2.5200		NV			
THORIUM, TOTAL	UG/L	2.8000		UNV						22.7000		NV			
RADIUM-228	PCI/L	3.0000		UNV			3.0000		R	3.0000		UNV			
THORIUM-228	PCI/L	1.2800		NV			1.0000		UJ	1.8900		NV			
NEPTUNIUM-237	PCI/L	0.5000		UNV			1.0000		UJ						
PLUTONIUM-239/240	PCI/L	0.5000		UNV			1.0000		U						
PLUTONIUM-238	PCI/L	0.5000		UNV			1.0000		U						
STRONTIUM-90	PCI/L						5.0000		U						
TECHNETIUM-99	PCI/L	21.0000		UNV			30.0000		U						
RUTHENIUM-106	PCI/L	150.0000		UNV			150.0000		R						
CESIUM-137	PCI/L	5.7000		UNV			20.0000		R						
GROSS ALPHA	PCI/L	35.1000		NV						52.0000		NV			
GROSS BETA	PCI/L	34.8000		NV						188.0000		NV			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	UG/L				10.0000				U						
1,2-DICHLOROBENZENE	UG/L				10.0000				U						
1,3-DICHLOROBENZENE	UG/L				10.0000				U						
1,4-DICHLOROBENZENE	UG/L				10.0000				U						
2,4,5-TRICHLOROPHENOL	UG/L				50.0000				U						
2,4,6-TRICHLOROPHENOL	UG/L				10.0000				U						
2,4-DICHLOROPHENOL	UG/L				10.0000				U						
2,4-DIMETHYLPHENOL	UG/L				10.0000				U						
2,4-DINITROPHENOL	UG/L				10.0000				U						
2,4-DINITROTOLUENE	UG/L				50.0000				U						
2,6-DINITROTOLUENE	UG/L				10.0000				U						
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV									10.0000		UNV
2-CHLORONAPHTHALENE	UG/L				10.0000				U						
2-CHLOROPHENOL	UG/L				10.0000				U						
2-METHYLNAPHTHALENE	UG/L				10.0000				U						
2-METHYLPHENOL	UG/L				10.0000				U						
2-NITROANILINE	UG/L				50.0000				U						
2-NITROPHENOL	UG/L				10.0000				U						

001175

SAMPLE NUMBER:		EMGW_SYSGEN_269			020253			020255			EMGW_SYSGEN_270			EMGW_SYSGEN_271		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		U									
3-NITROANILINE	UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				10.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				50.0000		U									
4-NITROPHENOL	UG/L				50.0000		U									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		U									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				50.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		U									
PENTACHLOROPHENOL	UG/L				50.0000		U									

SAMPLE NUMBER:		EMGW_SYSGEN_269		020253		020255			EMGW_SYSGEN_270			EMGW_SYSGEN_271		
LAB:				IT										
SUFFIX/FILTERFLAG:		-		NONE-UNF		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
PHENANTHRENE	UG/L			10.0000	U									
PHENOL	MG/L			10.0000	U									
PYRENE	UG/L			10.0000	U									
VOLATILES														
1,1,1-TRICHLOROETHANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000	UNV	10.0000	U				2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	2.0000	UNV	10.0000	U				2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000	UNV	10.0000	U				2.0000		UNV	2.0000		UNV
ACETONE	UG/L	2.0000	UNV	10.0000	U				2.0000		UNV	2.0000		UNV
BENZENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000	UNV	10.0000	U				1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	1.0000	UNV	10.0000	U							1.0000		UNV
CHLOROFORM	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000	UNV	10.0000	U				1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
STYRENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	2.0000	UNV	10.0000	U				2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000	UNV	10.0000	U				1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000	UNV	5.0000	U				1.0000		UNV	1.0000		UNV

001177

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_272	EMGW_SYSGEN_273	110465	113869	119234
TASK:	GWMON	GWMON	20.03.05	20.03.05	50.03.22
LAB:	NET	NET	FERMCO	IT	TCT
WELL OR BORING NUMBER:	1090	1090	11015	11032	11064
DEPTH:	-	-	-8	-	-
DATE COLLECTED:	13-DEC-90	05-MAR-91	25-MAR-93	30-JUN-93	27-JUN-93
NORTH COORDINATE:	481995.45	481995.45	477922.19	478072.47	478443.35
EAST COORDINATE:	1381684.46	1381684.46	1379788.82	1379787.13	1379495.01
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	361.0000		NV	378.0000		NV				394.0000		-	418.0000		-
AMMONIA	MG/L	0.1100		NV	0.0200		UNV				0.2600		J	0.1180		-
CHLORIDE	MG/L	13.0000		NV	12.0000		NV				8.8900		-	3.7800		-
FLUORIDE	MG/L	0.9500		NV	0.9100		NV				0.6400		-	0.3300		-
NITRATE	MG/L										0.2600		J			
NITRATE, AS NITROGEN	MG/L				0.0200		UNV									
NITRATE/NITRITE	MG/L	0.0600		NV										0.0212		-
PH	STD	6.6900		NV	7.3500		NV									
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV				0.0100		U	0.0050		U
PHOSPHATE	MG/L													0.2760		R
PHOSPHORUS	MG/L	0.6600		NV	0.1400		NV				8.7600		-			
SPECIFIC CONDUCTIVITY	UMHOS/CM	928.0000		NV	859.0000		NV									
SULFATE	MG/L	91.0000		NV	127.0000		NV				65.5000		-	73.1000		-
SULFIDE	MG/L										0.5000		U	1.0000		U
TOTAL DISSOLVED SOLIDS	MG/L	590.0000		NV	426.0000		NV									
TOTAL KJELDAHL NITROGEN	MG/L										3.3200		-	0.1200		-
TOTAL ORGANIC CARBON	MG/L	1.0000		UNV	10.0000		NV				1.7900		J	10.8000		J
TOTAL ORGANIC HALIDES	MG/L										0.0100		U	0.0299		-
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0340		NV									
TOTAL ORGANIC NITROGEN	MG/L										3.0600		J	0.0020		-
INORGANICS																
ALUMINUM	MG/L				1.6700		NV				0.4350		-	8.3000		-
ANTIMONY	MG/L				0.0250		UNV				0.0050		U	0.0140		UJ
ARSENIC	MG/L				0.0025		UNV				0.0020		UJ	0.0095		J
BARIUM	MG/L				0.2000		UNV				1.0500		-	0.1830		-
BERYLLIUM	MG/L				0.0100		UNV				0.0020		U	0.0050		U
CADMIUM	MG/L				0.0010		UNV				0.0050		UJ	0.0050		U
CALCIUM	MG/L				80.3000		NV				87.3000		-	168.0000		-

001178

5704

SAMPLE NUMBER:		EMGW_SYSGEN_272			EMGW_SYSGEN_273		110465			113869			119234		
LAB:					NET					IT			TCT		
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CHROMIUM	MG/L				0.0150		NV				0.0100		UR	0.0083		J
COBALT	MG/L				0.0250		UNV				0.0100		U	0.0170		U
COPPER	MG/L				0.0250		UNV				0.0100		U	0.0236		-
CYANIDE	MG/L	0.0050		UNV	0.0200		UNV				0.0020		U	0.0050		U
IRON	MG/L				3.2600		NV				0.3340		-	10.7000		-
LEAD	MG/L				0.0050		UNV				0.0835		-	0.0054		J
MAGNESIUM	MG/L				49.0000		NV				413.0000		-	70.3000		-
MANGANESE	MG/L				0.0660		NV				4.9200		-	0.5080		-
MERCURY	MG/L				0.0002		UNV				0.0002		-	0.0001		U
MOLYBDENUM	MG/L				0.0250		UNV				0.0495		-	0.0170		U
NICKEL	MG/L				0.0060		NV				0.2430		-	0.0263		-
POTASSIUM	MG/L				3.2200		NV				1.3300		-	5.0600		-
SELENIUM	MG/L				0.0025		UNV				0.0020		UJ	0.0050		UR
SILICON	MG/L										8.2000		-	9.7800		J
SILVER	MG/L				0.0010		UNV				0.0100		U	0.0010		U
SODIUM	MG/L				14.1000		NV				12.5000		-	12.1000		-
THALLIUM	MG/L				0.0100		UNV				0.0020		UJ	0.0010		U
VANADIUM	MG/L				0.0500		UNV				0.3190		J	0.0240		U
ZINC	MG/L				0.0200		UNV				0.0050		U	0.0549		-
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV									
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U			
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		U			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		U			
ALPHA-CHLORDANE	UG/L										0.0500		U			
AROCLOR-1016	UG/L										1.0000		U			
AROCLOR-1221	UG/L										2.0000		U			
AROCLOR-1232	UG/L										1.0000		U			
AROCLOR-1242	UG/L										1.0000		U			
AROCLOR-1248	UG/L										1.0000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.1000		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			

001179

SAMPLE NUMBER:		EMGW_SYSGEN_272			EMGW_SYSGEN_273			110465			113869			119234		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDRIN	UG/L										0.1000		U			
ENDRIN ALDEHYDE	UG/L										0.1000		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.0500		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										5.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	3.7100		NV	3.1200		NV				8.8700	2.05	-			
URANIUM, TOTAL	UG/L	9.8100		NV	10.2000		NV	270.0000		NV	22.6000	3.94	J			
URANIUM-234	PCI/L	4.0100		NV	3.5000		NV				8.7200	2.01	-			
THORIUM-230	PCI/L	3.2100		NV	0.3060		NV				0.2000		UJ			
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV				1.0000		UJ			
URANIUM-235/236	PCI/L	0.2490		NV	0.2500		UNV				0.3400	.2	-			
THORIUM-232	PCI/L	0.2900		UNV	0.2000		UNV				7.5000	2.93	R			
THORIUM, TOTAL	UG/L	2.6000		UNV	1.8000		UNV				0.6400	0	UJ			
RADIUM-228	PCI/L	3.0000		UNV	3.0000		UNV				10.1000	1.9	R			
THORIUM-228	PCI/L	1.0100		NV	0.6410		NV				0.2700		UJ			
NEPTUNIUM-237	PCI/L				0.5000		UNV				0.5000	.23	U			
PLUTONIUM-239/240	PCI/L				0.5000		UNV				0.5000	.12	U			
PLUTONIUM-238	PCI/L				0.5000		UNV				0.5000	.11	UJ			
STRONTIUM-90	PCI/L										1.0000		UJ			
TECHNETIUM-99	PCI/L				18.0000		UNV				15.0000		UJ			
RUTHENIUM-106	PCI/L				150.0000		UNV				150.0000		UJ			
CESIUM-137	PCI/L				6.4000		UNV				17.3000		UJ			
GROSS ALPHA	PCI/L	10.4000		NV	9.2000		UNV				26.6000		UJ			
GROSS BETA	PCI/L	15.3000		NV	14.6000		NV				6.6400	4.17	J			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U	10.0000		UJ
1,2-DICHLOROBENZENE	UG/L										10.0000		U	10.0000		UJ
1,3-DICHLOROBENZENE	UG/L										10.0000		U	10.0000		UJ
1,4-DICHLOROBENZENE	UG/L										10.0000		U	10.0000		UJ
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		U	25.0000		UJ
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U	10.0000		UJ
2,4-DICHLOROPHENOL	UG/L										10.0000		U	10.0000		UJ
2,4-DIMETHYLPHENOL	UG/L										10.0000		U	10.0000		UJ
2,4-DINITROPHENOL	UG/L										25.0000		UJ	25.0000		UJ
2,4-DINITROTOLUENE	UG/L										10.0000		U	10.0000		UJ
2,6-DINITROTOLUENE	UG/L										10.0000		U	10.0000		UJ

001180

5204

SAMPLE NUMBER:		EMGW_SYSGEN_272			EMGW_SYSGEN_273			110465			113869			119234		
LAB:											IT			TCT		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-BENZYL-4-CHLOROPHENOL	UG/L										10.0000		U			
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV									
2-CHLORONAPHTHALENE	UG/L										10.0000		U	10.0000		UJ
2-CHLOROPHENOL	UG/L										10.0000		U	10.0000		UJ
2-METHYLNAPHTHALENE	UG/L										10.0000		U	10.0000		UJ
2-METHYLPHENOL	UG/L										10.0000		U	10.0000		UJ
2-NITROANILINE	UG/L										25.0000		U	25.0000		UJ
2-NITROPHENOL	UG/L										10.0000		U	10.0000		UJ
3,3'-DICHLOROBENZIDINE	UG/L										10.0000		U	10.0000		UJ
3-NITROANILINE	UG/L										25.0000		U	25.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L										25.0000		U	25.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U	10.0000		UJ
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U	10.0000		UJ
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U	10.0000		UJ
4-METHYLPHENOL	UG/L										10.0000		U	10.0000		UJ
4-NITROANILINE	UG/L										25.0000		U	25.0000		UJ
4-NITROPHENOL	UG/L										25.0000		U	25.0000		UJ
ACENAPHTHENE	UG/L										10.0000		U	10.0000		UJ
ACENAPHTHYLENE	UG/L										10.0000		U	10.0000		UJ
ANTHRACENE	UG/L										10.0000		U	10.0000		UJ
BENZO(A)ANTHRACENE	UG/L										10.0000		U	10.0000		UJ
BENZO(A)PYRENE	UG/L										10.0000		U	10.0000		UJ
BENZO(B)FLUORANTHENE	UG/L										10.0000		U	10.0000		UJ
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U	10.0000		UJ
BENZO(K)FLUORANTHENE	UG/L										10.0000		U	10.0000		UJ
BENZOIC ACID	UG/L										50.0000		U	25.0000		UJ
BENZYL ALCOHOL	UG/L										10.0000		U	10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U	10.0000		UJ
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U	10.0000		UJ
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		U	10.0000		UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		U	1.0000		J
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U	10.0000		UJ
CARBAZOLE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U	10.0000		UJ
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U	10.0000		UJ
DI-N-OCTYL PHTHALATE	UG/L										10.0000		U	10.0000		UJ
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U	10.0000		UJ
DIBENZOFURAN	UG/L										10.0000		U	10.0000		UJ
DIETHYL PHTHALATE	UG/L										1.0000		J	10.0000		UJ
DIMETHYL PHTHALATE	UG/L										10.0000		U	10.0000		UJ
FLUORANTHENE	UG/L										10.0000		U	10.0000		UJ
FLUORENE	UG/L										10.0000		U	10.0000		UJ
HEXACHLOROBENZENE	UG/L										10.0000		U	10.0000		UJ
HEXACHLOROBUTADIENE	UG/L										10.0000		U	10.0000		UJ
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		UJ	10.0000		UJ

SAMPLE NUMBER:	EMGW_SYSGEN_272			EMGW_SYSGEN_273		110465			113869			119234		
LAB:	NET			NET					IT			TCT		
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF		-			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TOLUENE UG/L	1.0000		UNV	1.0000		UNV				10.0000		U	10.0000		U
TRANS-1,3-DICHLOROPROPENE UG/L	1.0000		UNV	1.0000		UNV				10.0000		U	10.0000		U
TRICHLOROETHENE UG/L	1.0000		UNV	1.0000		UNV				10.0000		U	10.0000		U
VINYL ACETATE UG/L	2.0000		UNV	2.0000		UNV							10.0000		U
VINYL CHLORIDE UG/L	1.0000		UNV	1.0000		UNV				10.0000		U	10.0000		U
XYLENES, TOTAL UG/L	1.0000		UNV	1.0000		UNV				10.0000		U	10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		119234F			119237			119237F			119238			119228		
TASK:		50.03.22			50.03.22			50.03.22			50.03.22			50.03.22		
LAB:		TCT			CORE			CORE			FERMCO			TCT		
WELL OR BORING NUMBER:		11064			11064			11064			11064			11067		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		27-JUN-93			27-JUN-93			27-JUN-93			27-JUN-93			27-JUN-93		
NORTH COORDINATE:		478443.35			478443.35			478443.35			478443.35			480193.68		
EAST COORDINATE:		1379495.01			1379495.01			1379495.01			1379495.01			1382782.71		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													500.0000		-
AMMONIA	MG/L													0.3660		-
CHLORIDE	MG/L													15.9800		-
FLUORIDE	MG/L													0.5100		-
NITRATE/NITRITE	MG/L													0.0400		U
PHENOLS	MG/L													0.0050		U
PHOSPHATE	MG/L													0.4180		R
SULFATE	MG/L													98.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL KJELDAHL NITROGEN	MG/L													0.4560		-
TOTAL ORGANIC CARBON	MG/L													2.3000		J
TOTAL ORGANIC HALIDES	MG/L													0.0050		U
TOTAL ORGANIC NITROGEN	MG/L													0.0900		-
INORGANICS																
ALUMINUM	MG/L	0.2000		U										27.1000		-
ANTIMONY	MG/L	0.0140		UJ										0.0140		UJ
ARSENIC	MG/L	0.0058		J										0.0028		J
BARIUM	MG/L	0.1460		-										0.2100		-
BERYLLIUM	MG/L	0.0050		U										0.0050		U
CADMIUM	MG/L	0.0050		U										0.0050		U
CALCIUM	MG/L	111.0000		-										217.0000		-
CHROMIUM	MG/L	0.0060		UJ										0.0418		-
COBALT	MG/L	0.0170		U										0.0170		U
COPPER	MG/L	0.0090		U										0.0327		-
CYANIDE	MG/L	0.0050		U										0.0050		U
IRON	MG/L	0.2880		-										27.4000		-
LEAD	MG/L	0.0010		UJ										0.0093		J
MAGNESIUM	MG/L	48.5000		-										88.9000		-

001183

SAMPLE NUMBER:		119234F			119237			119237F			119238			119228		
LAB:		TCT												TCT		
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	0.3010		-										0.6060		-
MERCURY	MG/L	0.0001		U										0.0001		U
MOLYBDENUM	MG/L	0.0170		U										0.0170		U
NICKEL	MG/L	0.0180		U										0.0449		-
POTASSIUM	MG/L	1.2700		-										15.9000		-
SELENIUM	MG/L	0.0050		UR										0.0050		UR
SILICON	MG/L	7.2700		J										18.5000		J
SILVER	MG/L	0.0010		U										0.0010		U
SODIUM	MG/L	11.9000		-										12.7000		-
THALLIUM	MG/L	0.0010		U										0.0010		U
VANADIUM	MG/L	0.0240		U										0.0357		-
ZINC	MG/L	0.0192		U										0.0804		-
RADIONUCLIDES																
URANIUM-238	PCI/L				2.8000	.5	J	2.3000	.9	R						
URANIUM, TOTAL	UG/L				8.3000	.6	-	7.9000	.6	-	8.1000		NV			
URANIUM-234	PCI/L				2.6000	.8	J	3.5000	1.1	R						
THORIUM-230	PCI/L				0.3000	.2	-	0.3000	.2	UJ						
RADIUM-226	PCI/L				1.0000	.4	UJ	1.0000	.3	UJ						
URANIUM-235/236	PCI/L				0.2000	.5	UJ	0.2000	.2	R						
THORIUM-232	PCI/L				0.2000	.4	U	0.2000	.1	UJ						
THORIUM, TOTAL	UG/L				0.9120	.4	NV									
RADIUM-228	PCI/L				3.0000	1	UJ	3.0000	.9	UJ						
THORIUM-228	PCI/L				0.2000	.5	U	0.2000	.2	UJ						
STRONTIUM-90	PCI/L							0.5000	.4	R						
CESIUM-137	PCI/L							4.0000	1.2	UJ						
GROSS ALPHA	PCI/L							3.8000	1.6	NV						
GROSS BETA	PCI/L							5.5000	2.1	NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													25.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													25.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U

001184

5204

SAMPLE NUMBER:	119234F			119237			119237F			119238			119228		
LAB:													TCT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2-METHYLNAPHTHALENE UG/L													10.0000		U
2-METHYLPHENOL UG/L													10.0000		U
2-NITROANILINE UG/L													25.0000		U
2-NITROPHENOL UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE UG/L													10.0000		U
3-NITROANILINE UG/L													25.0000		U
4,6-DINITRO-2-METHYLPHENOL UG/L													25.0000		U
4-BROMOPHENYL PHENYL ETHER UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER UG/L													10.0000		U
4-METHYLPHENOL UG/L													10.0000		U
4-NITROANILINE UG/L													25.0000		U
4-NITROPHENOL UG/L													25.0000		U
ACENAPHTHENE UG/L													10.0000		U
ACENAPHTHYLENE UG/L													10.0000		U
ANTHRACENE UG/L													10.0000		U
BENZO(A)ANTHRACENE UG/L													10.0000		U
BENZO(A)PYRENE UG/L													10.0000		U
BENZO(B)FLUORANTHENE UG/L													10.0000		U
BENZO(G,H,I)PERYLENE UG/L													10.0000		U
BENZO(K)FLUORANTHENE UG/L													10.0000		U
BENZOIC ACID UG/L													25.0000		UJ
BENZYL ALCOHOL UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		U
BUTYL BENZYL PHTHALATE UG/L													10.0000		U
CHRYSENE UG/L													10.0000		U
DI-N-BUTYL PHTHALATE UG/L													10.0000		U
DI-N-OCTYL PHTHALATE UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		U
DIBENZOFURAN UG/L													10.0000		U
DIETHYL PHTHALATE UG/L													10.0000		U
DIMETHYL PHTHALATE UG/L													10.0000		U
FLUORANTHENE UG/L													10.0000		U
FLUORENE UG/L													10.0000		U
HEXACHLOROBENZENE UG/L													10.0000		U
HEXACHLOROBUTADIENE UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		U
HEXACHLOROETHANE UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		U
ISOPHORONE UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		U
N-NITROSODIPHENYLAMINE UG/L													10.0000		U

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 520

SAMPLE NUMBER:	119234F	119237	119237F	119238	119228
LAB:					TCT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													25.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		U
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		UJ
2-HEXANONE	UG/L													10.0000		UJ
4-METHYL-2-PENTANONE	UG/L													10.0000		UJ
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL ACETATE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		119228F			119231			119231F			119232F			119397		
TASK:		50.03.22			50.03.22			50.03.22			50.03.22			50.03.22		
LAB:		TCT			CORE			CORE			FERMCO			DATACHEM		
WELL OR BORING NUMBER:		11067			11067			11067			11067			11068		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		28-JUN-93			28-JUN-93			28-JUN-93			28-JUN-93			25-JUL-93		
NORTH COORDINATE:		480193.68			480193.68			480193.68			480193.68			480148.51		
EAST COORDINATE:		1382782.71			1382782.71			1382782.71			1382782.71			1378746.78		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													350.0000		-
AMMONIA	MG/L													0.0600		-
CHLORIDE	MG/L													9.0000		J
FLUORIDE	MG/L													0.3000		-
NITRATE/NITRITE	MG/L													0.1600		J
PHENOLS	MG/L													0.0020		UJ
PHOSPHORUS	MG/L													180.0000		-
SULFATE	MG/L													52.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL KJELDAHL NITROGEN	MG/L													0.0002		J
TOTAL ORGANIC CARBON	MG/L													1.0000		-
TOTAL ORGANIC HALIDES	MG/L													0.0100		U
TOTAL ORGANIC NITROGEN	MG/L													0.1400		J
INORGANICS																
ALUMINUM	MG/L	0.1850		U										1.4700		-
ANTIMONY	MG/L	0.0140		UJ										0.0450		U
ARSENIC	MG/L	0.0020		UJ										0.0012		-
BARIUM	MG/L	0.0664		-										0.1790		-
BERYLLIUM	MG/L	0.0050		U										0.0010		U
CADMIUM	MG/L	0.0050		U										0.0030		U
CALCIUM	MG/L	140.0000		-										99.4000		-
CHROMIUM	MG/L	0.0060		UJ										0.0118		U
COBALT	MG/L	0.0170		U										0.0060		U
COPPER	MG/L	0.0090		U										0.0040		U
CYANIDE	MG/L	0.0050		U										0.0100		U
IRON	MG/L	0.0508		-										3.5100		-
LEAD	MG/L	0.0010		UJ										0.0018		J
MAGNESIUM	MG/L	62.0000		-										33.0000		-

SAMPLE NUMBER:		119228F			119231			119231F			119232F			119397		
LAB:		TCT												DATACHEM		
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	0.0924		-										0.1340		-
MERCURY	MG/L	0.0001		U										0.0002		U
MOLYBDENUM	MG/L	0.0170		U												
NICKEL	MG/L	0.0180		U										0.0194		-
POTASSIUM	MG/L	1.8900		-										2.6900		-
SELENIUM	MG/L	0.0050		UR										0.0020		UJ
SILICON	MG/L	8.7400		J												
SILVER	MG/L	0.0010		U										0.0030		UJ
SODIUM	MG/L	11.4000		-										20.2000		-
THALLIUM	MG/L	0.0010		U										0.0010		U
VANADIUM	MG/L	0.0240		U										0.0040		U
ZINC	MG/L	0.0095		U										0.0060		U
RADIONUCLIDES																
URANIUM-238	PCI/L				2.2000	.4	J	2.3000	.8	J						
URANIUM, TOTAL	UG/L				5.9000	.4	-	6.7000	.5	-	6.8000		NV			
URANIUM-234	PCI/L				1.5000	.7	J	3.5000	.9	J						
THORIUM-230	PCI/L				0.2000	.2	U	0.2000	.1	UJ						
RADIUM-226	PCI/L				1.0000	.4	UJ	1.0000	.3	UJ						
URANIUM-235/236	PCI/L				0.2000	.5	UJ	0.2000	.2	UJ						
THORIUM-232	PCI/L				0.2000	.4	U	0.2000	.1	UJ						
THORIUM, TOTAL	UG/L				0.9120	.4	NV									
RADIUM-228	PCI/L				3.0000	1.2	UJ	3.0000	.9	UJ						
THORIUM-228	PCI/L				0.2000	.4	U	0.2000	.2	UJ						
STRONTIUM-90	PCI/L							0.4000	.3	R						
TECHNETIUM-99	PCI/L							21.4000	12.7	UJ						
CESIUM-137	PCI/L							5.7000	2.3	J						
GROSS ALPHA	PCI/L							2.6000	1.6	UNV						
GROSS BETA	PCI/L							7.4000	1.7	NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													25.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													25.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U

001188

5704

SAMPLE NUMBER:		119228F			119231			119231F			119232F			119397		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													25.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													10.0000		UR
3-NITROANILINE	UG/L													25.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													25.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													25.0000		UJ
4-NITROPHENOL	UG/L													25.0000		UJ
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CARBAZOLE	UG/L													10.0000		UR
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		UR
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		UJ
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U

SAMPLE NUMBER:		119228F			119231			119231F			119232F			119397		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		UJ
PENTACHLOROPHENOL	UG/L													25.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		U
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		U
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	119398	119398F	119400	119402	119403
TASK:	50.03.22	50.03.22	50.03.22	50.03.22	50.03.22
LAB:	CORE	CORE	FERMCO	DATACHEM	CORE
WELL OR BORING NUMBER:	11068	11068	11068	11068	11068
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-JUL-93	25-JUL-93	25-JUL-93	25-JUL-93	25-JUL-93
NORTH COORDINATE:	480148.51	480148.51	480148.51	480148.51	480148.51
EAST COORDINATE:	1378746.78	1378746.78	1378746.78	1378746.78	1378746.78
QA TYPE:	NORMAL	NORMAL	NORMAL	DUPLICATE	DUPLICATE
QC OF:				119397	119397
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										350.0000		-			
AMMONIA	MG/L										0.0700		-			
CHLORIDE	MG/L										9.4000		J			
FLUORIDE	MG/L										0.3000		-			
NITRATE/NITRITE	MG/L										0.1700		J			
PHENOLS	MG/L										0.0020		UJ			
PHOSPHORUS	MG/L										0.5500		-			
SULFATE	MG/L										55.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL KJELDAHL NITROGEN	MG/L										0.5000		J			
TOTAL ORGANIC CARBON	MG/L										1000.0000		U			
TOTAL ORGANIC HALIDES	MG/L										10.0000		U			
TOTAL ORGANIC NITROGEN	MG/L										0.4300		J			
INORGANICS																
ALUMINUM	MG/L										4.5700		-			
ANTIMONY	MG/L										0.0450		U			
ARSENIC	MG/L										0.0041		-			
BARIUM	MG/L										0.2370		-			
BERYLLIUM	MG/L										0.0010		U			
CADMIUM	MG/L										0.0045		U			
CALCIUM	MG/L										127.0000		-			
CHROMIUM	MG/L										0.0196		U			
COBALT	MG/L										0.0060		U			
COPPER	MG/L										0.0040		U			
CYANIDE	MG/L										0.0100		U			
IRON	MG/L										0.0855		U			
LEAD	MG/L										0.0010		U			
MAGNESIUM	MG/L										33.6000		-			

C01191

SAMPLE NUMBER:		119398			119398F			119400			119402			119403		
LAB:											DATACHEM					
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L										0.1300		-			
MERCURY	MG/L										0.0002		U			
NICKEL	MG/L										0.0258		-			
POTASSIUM	MG/L										2.2300		-			
SELENIUM	MG/L										0.0020		UJ			
SILVER	MG/L										0.0030		UJ			
SODIUM	MG/L										20.9000		-			
THALLIUM	MG/L										0.0010		U			
VANADIUM	MG/L										0.0085		-			
ZINC	MG/L										0.0060		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	1.2000	.4	J	1.4000	.4	J							1.6000	.4	J
URANIUM, TOTAL	UG/L	3.8000	.3	-	4.1000	.3	-	4.3000		NV				5.1000	.4	-
URANIUM-234	PCI/L	1.6000	.4	J	2.0000	.4	J							2.1000	.4	J
THORIUM-230	PCI/L	0.3000	.2	J	0.3000	.2	J							0.3000	.2	UJ
RADIUM-226	PCI/L	1.0000	.4	UJ	1.3000	.4	J							1.0000	.3	UJ
URANIUM-235/236	PCI/L	0.2000	.1	UJ	0.2000	.1	UJ							0.2000	.1	UJ
THORIUM-232	PCI/L	0.3000	.2	UJ	0.3000	.1	UJ							0.2000	.2	UJ
RADIUM-228	PCI/L	3.0000	1.1	U	3.0000	.9	U							3.0000	1	U
THORIUM-228	PCI/L	0.2000	.2	UJ	0.2000	.2	UJ							0.2000	.2	UJ
PLUTONIUM-239/240	PCI/L	0.3000	1.3	R										3.0000	3	R
PLUTONIUM-238	PCI/L	0.7000	1.4	R										2.5000	2.8	R
STRONTIUM-90	PCI/L	0.1000	.4	R	1.2000	.5	J							1.6000	1	J
TECHNETIUM-99	PCI/L	15.00007		U	15.0000	7.4	U							15.0000	7.7	U
CESIUM-137	PCI/L	4.0000	1.2	UJ	4.0000	.5	UJ							4.0000	.6	UJ
GROSS ALPHA	PCI/L	1.8000	1.1	UNV	2.3000	1.3	UNV							4.5000	2.6	UNV
GROSS BETA	PCI/L	44.80002.6		NV	229.0000	5.3	NV							11.4000	2.8	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										25.0000		UJ			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			

SAMPLE NUMBER:		119398			119398F			119400			119402			119403		
LAB:											DATACHEM					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										25.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										10.0000		UR			
3-NITROANILINE	UG/L										25.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										25.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										25.0000		UJ			
4-NITROPHENOL	UG/L										25.0000		UJ			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U			
BENZO(K)FLUORANTHENE	UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		U			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CARBAZOLE	UG/L										10.0000		UR			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		UR			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		UJ			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		U			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		U			
HEXACHLOROBUTADIENE	UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		U			
HEXACHLOROETHANE	UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L										10.0000		U			
ISOPHORONE	UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										10.0000		U			
NAPHTHALENE	UG/L										10.0000		U			

SAMPLE NUMBER:		119398			119398F			119400			119402			119403		
LAB:											DATACHEM					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
NITROBENZENE	UG/L										10.0000		U			
P-CHLOROANILINE	UG/L										10.0000		UJ			
PENTACHLOROPHENOL	UG/L										25.0000		U			
PHENANTHRENE	UG/L										10.0000		U			
PHENOL	MG/L										10.0000		U			
PYRENE	UG/L										10.0000		U			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		119403F			119405			119392			119393			119416F				
TASK:		50.03.22			50.03.22			50.03.22			50.03.22			50.03.22				
LAB:		CORE			FERMCO			DATACHEM			CORE			DATACHEM				
WELL OR BORING NUMBER:		11068			11068			11069			11069			11069				
DEPTH:		-			-			-			-			-				
DATE COLLECTED:		25-JUL-93			25-JUL-93			24-JUL-93			24-JUL-93			25-JUL-93				
NORTH COORDINATE:		480148.51			480148.51			479652.53			479652.53			479652.53				
EAST COORDINATE:		1378746.78			1378746.78			1379447.35			1379447.35			1379447.35				
QA TYPE:		NORMAL			DUPLICATE			NORMAL			NORMAL			NORMAL				
QC OF:					119400													
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL				
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)		
GENERAL CHEMISTRY																		
ALKALINITY AS CACO3	MG/L							440.0000		-								
AMMONIA	MG/L							0.1800		-								
CHLORIDE	MG/L							3.0000		J								
FLUORIDE	MG/L							0.2000		-								
NITRATE/NITRITE	MG/L							0.8000		J								
PHOSPHORUS	MG/L							10.0000		-								
SULFATE	MG/L							71.0000		-								
SULFIDE	MG/L							1.0000		U								
TOTAL KJELDAHL NITROGEN	MG/L							2.3000		J								
TOTAL ORGANIC CARBON	MG/L							3.0000		-								
TOTAL ORGANIC HALIDES	MG/L							0.0100		U								
TOTAL ORGANIC NITROGEN	MG/L							2.1200		J								
INORGANICS																		
ALUMINUM	MG/L							161.0000		-				0.0140		U		
ANTIMONY	MG/L							0.0450		U				0.0450		U		
ARSENIC	MG/L							0.0152		-				0.0016		-		
BARIUM	MG/L							1.2000		-				0.2210		-		
BERYLLIUM	MG/L							0.0089		U				0.0010		U		
CADMIUM	MG/L							0.0030		U				0.0030		U		
CALCIUM	MG/L							2030.0000		-				126.0000		-		
CHROMIUM	MG/L							0.2360		-				0.0050		U		
COBALT	MG/L							0.1560		-				0.0060		U		
COPPER	MG/L							0.3920		-				0.0040		U		
CYANIDE	MG/L							0.0100		U				0.0100		U		
IRON	MG/L							356.0000		-				0.0519		U		
LEAD	MG/L							0.1260		-				0.0093		J		
MAGNESIUM	MG/L							684.0000		-				41.5000		-		
MANGANESE	MG/L							8.0800		-				0.4450		-		

001195

SAMPLE NUMBER:	119403F			119405		119392			119393			119416F		
LAB:						DATACHEM						DATACHEM		
SUFFIX/FILTERFLAG:	-			-		NONE-UNF			-			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MERCURY MG/L							0.0002		U				0.0002		U
NICKEL MG/L							0.3610		-				0.0214		U
POTASSIUM MG/L							25.1000		-				2.2500		-
SELENIUM MG/L							0.0200		UJ				0.0020		U
SILVER MG/L							0.0030		UJ				0.0030		UJ
SODIUM MG/L							11.5000		-				8.7100		-
THALLIUM MG/L							0.0010		UJ				0.0010		U
VANADIUM MG/L							0.2850		-				0.0040		U
ZINC MG/L							0.9810		-				0.0062		U
RADIONUCLIDES															
URANIUM-238 PCI/L	1.6000	.4	J							9.9000	1.3	J			
URANIUM, TOTAL UG/L	4.7000	.3	-	3.6000		NV				26.7000	1.9	-			
URANIUM-234 PCI/L	2.3000	.4	J							9.7000	1.4	J			
THORIUM-230 PCI/L	0.3000	.2	UJ							0.2000	.2	U			
RADIUM-226 PCI/L	1.0000	.3	UJ							2.1000	.5	J			
URANIUM-235/236 PCI/L	0.2000	.1	UJ							0.5000	.5	J			
THORIUM-232 PCI/L	0.3000	.1	UJ							0.2000	.4	U			
THORIUM, TOTAL UG/L										0.9120	.4	NV			
RADIUM-228 PCI/L	3.0000	.8	U							3.0000	1	UJ			
THORIUM-228 PCI/L	0.2000	.2	UJ							0.2000	.4	U			
PLUTONIUM-239/240 PCI/L	0.4000	1.2	R												
PLUTONIUM-238 PCI/L	0.8000	.9	R												
STRONTIUM-90 PCI/L	1.0000	.5	UJ												
TECHNETIUM-99 PCI/L	15.0000	7.7	U												
CESIUM-137 PCI/L	4.0000	.6	UJ												
GROSS ALPHA PCI/L	2.6000	1.6	UNV												
GROSS BETA PCI/L	4.8000	1.9	NV												
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L							10.0000		U						
1,2-DICHLOROBENZENE UG/L							10.0000		U						
1,3-DICHLOROBENZENE UG/L							10.0000		U						
1,4-DICHLOROBENZENE UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL UG/L							25.0000		U						
2,4,6-TRICHLOROPHENOL UG/L							10.0000		U						
2,4-DICHLOROPHENOL UG/L							10.0000		U						
2,4-DIMETHYLPHENOL UG/L							10.0000		U						
2,4-DINITROPHENOL UG/L							25.0000		UJ						
2,4-DINITROTOLUENE UG/L							10.0000		U						
2,6-DINITROTOLUENE UG/L							10.0000		U						
2-CHLORONAPHTHALENE UG/L							10.0000		U						
2-CHLOROPHENOL UG/L							10.0000		U						

SAMPLE NUMBER:	119403F	119405	119392	119393	119416F
LAB:			DATACHEM		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							25.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		UR						
3-NITROANILINE	UG/L							25.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							25.0000		UJ						
4-NITROPHENOL	UG/L							25.0000		UJ						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CARBAZOLE	UG/L							10.0000		UR						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		UR						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UJ						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						

SAMPLE NUMBER:		119403F			119405			119392			119393			119416F		
LAB:								DATACHEM								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		UJ						
PENTACHLOROPHENOL	UG/L							25.0000		U						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		U						
PYRENE	UG/L							10.0000		U						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

SAMPLE NUMBER:		119417F			119427		119428			119239			119241		
LAB:										TCT					
SUFFIX/FILTERFLAG:		-			-		-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L										0.4550		-			
MERCURY	MG/L										0.0001		U			
MOLYBDENUM	MG/L										0.0170		U			
NICKEL	MG/L										0.0180		R			
POTASSIUM	MG/L										1.7000		-			
SELENIUM	MG/L										0.0050		UJ			
SILICON	MG/L										7.0800		-			
SILVER	MG/L										0.0020		U			
SODIUM	MG/L										11.0000		-			
THALLIUM	MG/L										0.0010		R			
VANADIUM	MG/L										0.0240		R			
ZINC	MG/L										0.0060		R			
RADIONUCLIDES																
URANIUM-238	PCI/L	8.4000	1.4	J				3.7000	.6	J				1.1000	.3	J
URANIUM, TOTAL	UG/L	20.0000	1.4	-				9.2000	.6	-				3.6000	.3	-
URANIUM-234	PCI/L	8.9000	1	J				4.1000	.9	J				1.5000	.7	J
THORIUM-230	PCI/L	0.2000	.2	UJ				0.6000	.3	-				0.3000	.3	U
RADIUM-226	PCI/L	1.1000	.6	U				2.6000	.6	J				1.0000	.4	UJ
URANIUM-235/236	PCI/L	0.4000	.1	J				0.2000	.5	UJ				0.2000	.5	UJ
THORIUM-232	PCI/L	0.2000	.5	UJ				0.5000	.4	-				0.2000	.4	U
THORIUM, TOTAL	UG/L							4.5601	.4	NV						
RADIUM-228	PCI/L	3.0000	1	U				3.0000	1	UJ				3.0000	1.1	UJ
THORIUM-228	PCI/L	0.2000	.5	UJ				0.4000	.5	-				0.2000	.4	U
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		UJ			
1,2-DICHLOROBENZENE	UG/L										10.0000		UJ			
1,3-DICHLOROBENZENE	UG/L										10.0000		UJ			
1,4-DICHLOROBENZENE	UG/L										10.0000		UJ			
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		UJ			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		UJ			
2,4-DICHLOROPHENOL	UG/L										10.0000		UJ			
2,4-DIMETHYLPHENOL	UG/L										10.0000		UJ			
2,4-DINITROPHENOL	UG/L										25.0000		UJ			
2,4-DINITROTOLUENE	UG/L										10.0000		UJ			
2,6-DINITROTOLUENE	UG/L										10.0000		UJ			
2-CHLORONAPHTHALENE	UG/L										10.0000		UJ			
2-CHLOROPHENOL	UG/L										10.0000		UJ			
2-METHYLNAPHTHALENE	UG/L										10.0000		UJ			
2-METHYLPHENOL	UG/L										10.0000		UJ			
2-NITROANILINE	UG/L										25.0000		UJ			
2-NITROPHENOL	UG/L										10.0000		UJ			

SAMPLE NUMBER:	119417F			119427			119428			119239			119241		
LAB:										TCT					
SUFFIX/FILTERFLAG:	-			-			-			RE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
3,3'-DICHLOROBENZIDINE UG/L										10.0000		UJ			
3-NITROANILINE UG/L										25.0000		UJ			
4,6-DINITRO-2-METHYLPHENOL UG/L										25.0000		UJ			
4-BROMOPHENYL PHENYL ETHER UG/L										10.0000		UJ			
4-CHLORO-3-METHYLPHENOL UG/L										10.0000		UJ			
4-CHLOROPHENYLPHENYL ETHER UG/L										10.0000		UJ			
4-METHYLPHENOL UG/L										10.0000		UJ			
4-NITROANILINE UG/L										25.0000		UJ			
4-NITROPHENOL UG/L										25.0000		UJ			
ACENAPHTHENE UG/L										10.0000		UJ			
ACENAPHTHYLENE UG/L										10.0000		UJ			
ANTHRACENE UG/L										10.0000		UJ			
BENZO(A)ANTHRACENE UG/L										10.0000		UJ			
BENZO(A)PYRENE UG/L										10.0000		UJ			
BENZO(B)FLUORANTHENE UG/L										10.0000		UJ			
BENZO(G,H,I)PERYLENE UG/L										10.0000		UJ			
BENZO(K)FLUORANTHENE UG/L										10.0000		UJ			
BENZOIC ACID UG/L										25.0000		UJ			
BENZYL ALCOHOL UG/L										10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		UJ			
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		UJ			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										16.0000		UJ			
BUTYL BENZYL PHTHALATE UG/L										10.0000		UJ			
CHRYSENE UG/L										10.0000		UJ			
DI-N-BUTYL PHTHALATE UG/L										10.0000		UJ			
DI-N-OCTYL PHTHALATE UG/L										10.0000		UJ			
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		UJ			
DIBENZOFURAN UG/L										10.0000		UJ			
DIETHYL PHTHALATE UG/L										10.0000		UJ			
DIMETHYL PHTHALATE UG/L										10.0000		UJ			
FLUORANTHENE UG/L										10.0000		UJ			
FLUORENE UG/L										10.0000		UJ			
HEXACHLOROBENZENE UG/L										10.0000		UJ			
HEXACHLOROBUTADIENE UG/L										10.0000		UJ			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		UJ			
HEXACHLOROETHANE UG/L										10.0000		UJ			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		UJ			
ISOPHORONE UG/L										10.0000		UJ			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		UJ			
N-NITROSODIPHENYLAMINE UG/L										10.0000		UJ			
NAPHTHALENE UG/L										10.0000		UJ			
NITROBENZENE UG/L										10.0000		UJ			
P-CHLOROANILINE UG/L										10.0000		UJ			
PENTACHLOROPHENOL UG/L										25.0000		UJ			

SAMPLE NUMBER:		119417F			119427			119428			119239			119241		
LAB:											TCT					
SUFFIX/FILTERFLAG:		-			-			-			RE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENANTHRENE	UG/L										10.0000		UJ			
PHENOL	MG/L										10.0000		UJ			
PYRENE	UG/L										10.0000		UJ			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1-DICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1-DICHLOROETHENE	UG/L				10.0000		U				10.0000		U			
1,2-DICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U				10.0000		U			
1,2-DICHLOROPROPANE	UG/L				10.0000		U				10.0000		U			
2-BUTANONE	UG/L				10.0000		U				10.0000		UJ			
2-HEXANONE	UG/L				10.0000		U				10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L				10.0000		U				10.0000		UJ			
ACETONE	UG/L				10.0000		U				10.0000		U			
BENZENE	UG/L				10.0000		U				10.0000		U			
BROMODICHLOROMETHANE	UG/L				10.0000		U				10.0000		U			
BROMOFORM	UG/L				10.0000		U				10.0000		U			
BROMOMETHANE	UG/L				10.0000		U				10.0000		U			
CARBON DISULFIDE	UG/L				10.0000		U				10.0000		UJ			
CARBON TETRACHLORIDE	UG/L				10.0000		U				10.0000		U			
CHLOROBENZENE	UG/L				1.0000		J				10.0000		U			
CHLOROETHANE	UG/L				10.0000		U				10.0000		U			
CHLOROFORM	UG/L				10.0000		U				10.0000		U			
CHLOROMETHANE	UG/L				10.0000		U				10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U			
DIBROMOCHLOROMETHANE	UG/L				10.0000		U				10.0000		U			
ETHYLBENZENE	UG/L				10.0000		U				10.0000		U			
METHYLENE CHLORIDE	UG/L				10.0000		U				10.0000		U			
STYRENE	UG/L				10.0000		U				10.0000		U			
TETRACHLOROETHENE	UG/L				10.0000		U				10.0000		U			
TOLUENE	UG/L				10.0000		U				10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U			
TRICHLOROETHENE	UG/L				10.0000		U				10.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L				10.0000		U				10.0000		U			
XYLENES, TOTAL	UG/L				10.0000		U				10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	119241F			119243F			119378			119382			119246		
TASK:	50.03.22			50.03.22			50.03.22			50.03.22			50.03.22		
LAB:	CORE			TCT			DATACHEM			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	11071			11071			11072			11072			11073		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	01-JUL-93			01-JUL-93			15-JUL-93			15-JUL-93			12-JUL-93		
NORTH COORDINATE:	481543.62			481543.62			481310.61			481310.61			481062.69		
EAST COORDINATE:	1379799.5			1379799.5			1379767.85			1379767.85			1379791.53		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
ALKALINITY AS CACO3	MG/L							570.0000		-				460.0000		-
AMMONIA	MG/L							0.2300		-				0.1400		-
CHLORIDE	MG/L							14.0000		-				7.1000		-
FLUORIDE	MG/L							0.7000		-				0.4000		-
NITRATE/NITRITE	MG/L							0.0500		U				0.0500		U
PHENOLS	MG/L							0.0020		U				0.0030		-
PHOSPHORUS	MG/L							0.8700		-				0.1400		-
SULFATE	MG/L							30.0000		-				100.0000		-
SULFIDE	MG/L							0.1000		U				1.0000		UJ
TOTAL KJELDAHL NITROGEN	MG/L							0.4000		-				0.5000		-
TOTAL ORGANIC CARBON	MG/L							2.0000		-				2.0000		-
TOTAL ORGANIC HALIDES	MG/L							0.0100		U				0.0100		U
TOTAL ORGANIC NITROGEN	MG/L							0.1700		-				0.3600		-
INORGANICS															
ALUMINUM	MG/L				0.1350		U	16.1000		-	0.1640		-	0.6410		-
ANTIMONY	MG/L				0.0140		UJ	0.0157		U	0.0157		U	0.0157		U
ARSENIC	MG/L				0.0028		U	0.0045		-	0.0028		-	0.0027		-
BARIUM	MG/L				0.0780		-	0.2600		-	0.1540		-	0.0921		-
BERYLLIUM	MG/L				0.0050		R	0.0003		U	0.0003		U	0.0003		U
CADMIUM	MG/L				0.0050		U	0.0012		U	0.0012		U	0.0012		U
CALCIUM	MG/L				141.0000		-	228.0000		-	140.0000		-	154.0000		-
CHROMIUM	MG/L				0.0060		U	0.0337		U	0.0043		U	0.0038		U
COBALT	MG/L				0.0170		R	0.0085		U	0.0037		U	0.0034		U
COPPER	MG/L				0.0090		R	0.0232		-	0.0024		U	0.0032		U
CYANIDE	MG/L				0.0050		U	0.0100		U	0.0100		U	0.0100		UJ
IRON	MG/L				0.0688		U	26.3000		-	0.2650		J	1.4500		-
LEAD	MG/L				0.0023		U	0.0095		-	0.0010		U	0.0036		J
MAGNESIUM	MG/L				42.5000		-	94.2000		-	65.2000		-	49.6000		-

001202

5204

SAMPLE NUMBER:		119241F			119243F			119378			119382			119246		
LAB:					TCT			DATACHEM			DATACHEM			DATACHEM		
SUFFIX/FILTERFLAG:		-			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L				0.4960		-	0.6650		-	0.2440		-	3.9200		-
MERCURY	MG/L				0.0001		U	0.0002		U	0.0002		U	0.0002		U
MOLYBDENUM	MG/L				0.0170		U									
NICKEL	MG/L				0.0180		R	0.0409		-	0.0113		-	0.0105		U
POTASSIUM	MG/L				1.4800		-	5.5700		-	1.4500		-	0.4680		-
SELENIUM	MG/L				0.0010		UJ	0.0020		UJ	0.0020		UJ	0.0020		UJ
SILICON	MG/L				6.5700		-									
SILVER	MG/L				0.0020		U	0.0029		UJ	0.0029		UJ	0.0029		UJ
SODIUM	MG/L				11.0000		-	10.8000		-	10.7000		-	5.4800		-
THALLIUM	MG/L				0.0010		R	0.0010		UJ	0.0010		UJ	0.0010		UJ
VANADIUM	MG/L				0.0240		R	0.0294		-	0.0029		U	0.0029		U
ZINC	MG/L				0.0060		R	0.0768		-	0.0060		-	0.0092		-
RADIONUCLIDES																
URANIUM-238	PCI/L	0.9000	.6	J												
URANIUM, TOTAL	UG/L	3.7000	.3													
URANIUM-234	PCI/L	2.3000	.8	J												
THORIUM-230	PCI/L	0.2000	.2	UJ												
RADIUM-226	PCI/L	1.0000	.3	UJ												
URANIUM-235/236	PCI/L	0.2000	.2	U												
THORIUM-232	PCI/L	0.2000	.1	UJ												
RADIUM-228	PCI/L	3.0000	.9	UJ												
THORIUM-228	PCI/L	0.2000	.2	UJ												
STRONTIUM-90	PCI/L	1.2000	.4	R												
TECHNETIUM-99	PCI/L	60.8000	35.8	J												
CESIUM-137	PCI/L	4.0000	.7	UJ												
GROSS ALPHA	PCI/L	2.9000	1.9	UNV												
GROSS BETA	PCI/L	8.5000	2.2	NV												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,2-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,3-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,4-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U				25.0000		U
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DICHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DIMETHYLPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DINITROPHENOL	UG/L							25.0000		UJ				25.0000		UJ
2,4-DINITROTOLUENE	UG/L							10.0000		U				10.0000		U
2,6-DINITROTOLUENE	UG/L							10.0000		U				10.0000		U
2-CHLORONAPHTHALENE	UG/L							10.0000		U				10.0000		U
2-CHLOROPHENOL	UG/L							10.0000		U				10.0000		U

SAMPLE NUMBER:		119241F			119243F			119378			119382			119246		
LAB:								DATACHEM						DATACHEM		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-METHYLNAPHTHALENE	UG/L							10.0000		U				10.0000		U
2-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
2-NITROANILINE	UG/L							25.0000		U				25.0000		U
2-NITROPHENOL	UG/L							10.0000		U				10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U				10.0000		UR
3-NITROANILINE	UG/L							25.0000		UJ				25.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		U				25.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U				10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U				10.0000		U
4-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
4-NITROANILINE	UG/L							25.0000		U				25.0000		UJ
4-NITROPHENOL	UG/L							25.0000		U				25.0000		UJ
ACENAPHTHENE	UG/L							10.0000		U				10.0000		U
ACENAPHTHYLENE	UG/L							10.0000		U				10.0000		U
ANTHRACENE	UG/L							10.0000		U				10.0000		U
BENZO(A)ANTHRACENE	UG/L							10.0000		U				10.0000		U
BENZO(A)PYRENE	UG/L							10.0000		U				10.0000		U
BENZO(B)FLUORANTHENE	UG/L							10.0000		U				10.0000		U
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U				10.0000		U
BENZO(K)FLUORANTHENE	UG/L							10.0000		U				10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U				10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U				10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U				10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U				10.0000		U
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U				10.0000		U
CARBAZOLE	UG/L							10.0000		U				10.0000		UR
CHRYSENE	UG/L							10.0000		U				10.0000		U
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U				10.0000		U
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U				10.0000		UJ
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U				10.0000		UJ
DIBENZOFURAN	UG/L							10.0000		U				10.0000		U
DIETHYL PHTHALATE	UG/L							10.0000		U				10.0000		U
DIMETHYL PHTHALATE	UG/L							10.0000		U				10.0000		U
FLUORANTHENE	UG/L							10.0000		U				10.0000		U
FLUORENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROBENZENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROBUTADIENE	UG/L							10.0000		UJ				10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROETHANE	UG/L							10.0000		U				10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U				10.0000		U
ISOPHORONE	UG/L							10.0000		U				10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U				10.0000		U
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U				10.0000		U
NAPHTHALENE	UG/L							10.0000		U				10.0000		U

5204

SAMPLE NUMBER:		119241F			119243F			119378			119382			119246		
LAB:								DATACHEM						DATACHEM		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
NITROBENZENE	UG/L							10.0000		U				10.0000		U
P-CHLOROANILINE	UG/L							10.0000		U				10.0000		UJ
PENTACHLOROPHENOL	UG/L							25.0000		U				25.0000		U
PHENANTHRENE	UG/L							10.0000		U				10.0000		U
PHENOL	MG/L							10.0000		U				10.0000		U
PYRENE	UG/L							10.0000		U				10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U				10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U				10.0000		U
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U				10.0000		U
1,1-DICHLOROETHANE	UG/L							10.0000		U				10.0000		U
1,1-DICHLOROETHENE	UG/L							10.0000		U				10.0000		U
1,2-DICHLOROETHANE	UG/L							10.0000		U				10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		UJ				10.0000		UJ
1,2-DICHLOROPROPANE	UG/L							10.0000		U				10.0000		U
2-BUTANONE	UG/L							10.0000		U				10.0000		U
2-HEXANONE	UG/L							10.0000		U				10.0000		U
4-METHYL-2-PENTANONE	UG/L							10.0000		U				10.0000		U
ACETONE	UG/L							10.0000		U				10.0000		U
BENZENE	UG/L							10.0000		U				10.0000		U
BROMODICHLOROMETHANE	UG/L							10.0000		U				10.0000		U
BROMOFORM	UG/L							10.0000		U				1.0000		U
BROMOMETHANE	UG/L							10.0000		U				10.0000		U
CARBON DISULFIDE	UG/L							10.0000		U				10.0000		U
CARBON TETRACHLORIDE	UG/L							10.0000		U				10.0000		U
CHLOROBENZENE	UG/L							10.0000		U				10.0000		U
CHLOROETHANE	UG/L							10.0000		U				10.0000		U
CHLOROFORM	UG/L							10.0000		U				10.0000		U
CHLOROMETHANE	UG/L							10.0000		U				10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U				10.0000		U
DIBROMOCHLOROMETHANE	UG/L							10.0000		U				10.0000		U
ETHYLBENZENE	UG/L							10.0000		U				10.0000		U
METHYLENE CHLORIDE	UG/L							10.0000		U				10.0000		U
STYRENE	UG/L							10.0000		U				10.0000		U
TETRACHLOROETHENE	UG/L							10.0000		U				10.0000		U
TOLUENE	UG/L							10.0000		U				10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U				10.0000		U
TRICHLOROETHENE	UG/L							10.0000		U				10.0000		U
VINYL CHLORIDE	UG/L							10.0000		U				10.0000		U
XYLENES, TOTAL	UG/L							10.0000		U				10.0000		U

SAMPLE NUMBER:		119248			119248F			119250F			119411			119412		
LAB:								DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L							0.0002		U	0.0002		U			
NICKEL	MG/L							0.0128		U	0.0332		-			
POTASSIUM	MG/L							0.6260		-	5.4700		-			
SELENIUM	MG/L							0.0020		UJ	0.0010		UJ			
SILVER	MG/L							0.0029		UJ	0.0051		J			
SODIUM	MG/L							5.4300		-	16.8000		-			
THALLIUM	MG/L							0.0010		UJ	0.0010		U			
VANADIUM	MG/L							0.0029		U	0.0233		U			
ZINC	MG/L							0.0050		-	0.0717		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	0.9000	.3	J	0.9000	1.1	J							6.3000	.8	J
URANIUM, TOTAL	UG/L	2.9000	.2	-	2.8000	.2	-							17.1000	1.2	-
URANIUM-234	PCI/L	0.8000	.7	J	1.3000	.4	J							3.6000	.5	J
THORIUM-230	PCI/L	0.2000	.2	U	0.3000	.2	J							0.3000	.2	J
RADIUM-226	PCI/L	1.0000	.4	UJ	1.2000	.5	U							1.5000	.5	J
URANIUM-235/236	PCI/L	0.2000	.5	UJ	0.2000	.1	UJ							0.4000	.1	J
THORIUM-232	PCI/L	0.2000	.4	U	0.2000	.5	UJ							0.2000	.2	UJ
THORIUM, TOTAL	UG/L	0.9120	.4	NV										1.8240	.2	NV
RADIUM-228	PCI/L	3.0000	1.2	UJ	3.0000	1	U							3.0000	.9	U
THORIUM-228	PCI/L	0.2000	.4	U	0.2000	.5	UJ							0.2000	.2	UJ
PLUTONIUM-239/240	PCI/L													0.5000	1.3	R
PLUTONIUM-238	PCI/L													1.1000	2.1	R
STRONTIUM-90	PCI/L													2.2000	1	R
TECHNETIUM-99	PCI/L													15.0000	7.4	U
CESIUM-137	PCI/L													4.0000	.7	UJ
GROSS ALPHA	PCI/L													0.8000	3	NV
GROSS BETA	PCI/L													11.7000	3.4	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										25.0000		U			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			

001206

5704

SAMPLE NUMBER:	119248			119248F			119250F			119411			119412		
LAB:										DATACHEM					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2-METHYLNAPHTHALENE UG/L										10.0000		U			
2-METHYLPHENOL UG/L										10.0000		U			
2-NITROANILINE UG/L										25.0000		U			
2-NITROPHENOL UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE UG/L										10.0000		U			
3-NITROANILINE UG/L										25.0000		U			
4,6-DINITRO-2-METHYLPHENOL UG/L										25.0000		U			
4-BROMOPHENYL PHENYL ETHER UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER UG/L										10.0000		U			
4-METHYLPHENOL UG/L										10.0000		U			
4-NITROANILINE UG/L										25.0000		U			
4-NITROPHENOL UG/L										25.0000		U			
ACENAPHTHENE UG/L										10.0000		U			
ACENAPHTHYLENE UG/L										10.0000		U			
ANTHRACENE UG/L										10.0000		U			
BENZO(A)ANTHRACENE UG/L										10.0000		U			
BENZO(A)PYRENE UG/L										10.0000		U			
BENZO(B)FLUORANTHENE UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE UG/L										10.0000		U			
BENZO(K)FLUORANTHENE UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										2.0000		J			
BUTYL BENZYL PHTHALATE UG/L										10.0000		U			
CARBAZOLE UG/L										10.0000		U			
CHRYSENE UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		U			
DIBENZOFURAN UG/L										10.0000		U			
DIETHYL PHTHALATE UG/L										10.0000		U			
DIMETHYL PHTHALATE UG/L										10.0000		U			
FLUORANTHENE UG/L										10.0000		U			
FLUORENE UG/L										10.0000		U			
HEXACHLOROBENZENE UG/L										10.0000		U			
HEXACHLOROBUTADIENE UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		UJ			
HEXACHLOROETHANE UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE UG/L										10.0000		U			
NAPHTHALENE UG/L										10.0000		U			

001207

SAMPLE NUMBER:	119248			119248F			119250F			119411			119412		
LAB:										DATACHEM					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
NITROBENZENE UG/L										10.0000		U			
P-CHLOROANILINE UG/L										10.0000		U			
PENTACHLOROPHENOL UG/L										25.0000		U			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		U			
PYRENE UG/L										10.0000		U			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE UG/L										10.0000		U			
1,1-DICHLOROETHANE UG/L										10.0000		U			
1,1-DICHLOROETHENE UG/L										10.0000		U			
1,2-DICHLOROETHANE UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL) UG/L										10.0000		U			
1,2-DICHLOROPROPANE UG/L										10.0000		U			
2-BUTANONE UG/L										10.0000		UJ			
2-HEXANONE UG/L										10.0000		UJ			
4-METHYL-2-PENTANONE UG/L										10.0000		U			
ACETONE UG/L										10.0000		UJ			
BENZENE UG/L										10.0000		U			
BROMODICHLOROMETHANE UG/L										10.0000		U			
BROMOFORM UG/L										10.0000		U			
BROMOMETHANE UG/L										10.0000		U			
CARBON DISULFIDE UG/L										10.0000		U			
CARBON TETRACHLORIDE UG/L										10.0000		U			
CHLOROBENZENE UG/L										10.0000		U			
CHLOROETHANE UG/L										10.0000		U			
CHLOROFORM UG/L										10.0000		U			
CHLOROMETHANE UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
DIBROMOCHLOROMETHANE UG/L										10.0000		U			
ETHYLBENZENE UG/L										10.0000		U			
METHYLENE CHLORIDE UG/L										10.0000		U			
STYRENE UG/L										10.0000		U			
TETRACHLOROETHENE UG/L										10.0000		U			
TOLUENE UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
TRICHLOROETHENE UG/L										10.0000		U			
VINYL CHLORIDE UG/L										10.0000		U			
XYLENES, TOTAL UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		119413			119413F			119386			119386F			119387		
TASK:		50.03.22			50.03.22			50.03.22			50.03.22			50.03.22		
LAB:		FERMCO			FERMCO			DATACHEM			DATACHEM			CORE		
WELL OR BORING NUMBER:		11077			11077			11078			11078			11078		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		26-JUL-93			26-JUL-93			22-JUL-93			22-JUL-93			22-JUL-93		
NORTH COORDINATE:		481247.74			481247.74			482143.6			482143.6			482143.6		
EAST COORDINATE:		1378975.42			1378975.42			1379841.59			1379841.59			1379841.59		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							450.0000		-						
AMMONIA	MG/L							0.0500		U						
CHLORIDE	MG/L							2.9000		J						
FLUORIDE	MG/L							0.3000		-						
NITRATE/NITRITE	MG/L							0.0700		J						
PHENOLS	MG/L							0.0020		UJ						
PHOSPHORUS	MG/L							1.1000		-						
SULFATE	MG/L							16.0000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL KJELDAHL NITROGEN	MG/L							0.6000		J						
TOTAL ORGANIC CARBON	MG/L							2.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0100		U						
TOTAL ORGANIC NITROGEN	MG/L							0.6000		J						
INORGANICS																
ALUMINUM	MG/L							24.2000		-	0.0854		U			
ANTIMONY	MG/L							0.0450		U	0.0450		U			
ARSENIC	MG/L							0.0035		-	0.0012		-			
BARIUM	MG/L							0.2790		-	0.1060		-			
BERYLLIUM	MG/L							0.0015		U	0.0010		U			
CADMIUM	MG/L							0.0030		U	0.0030		U			
CALCIUM	MG/L							184.0000		-	118.0000		-			
CHROMIUM	MG/L							0.0342		-	0.0040		U			
COBALT	MG/L							0.0154		-	0.0060		U			
COPPER	MG/L							0.0358		-	0.0040		U			
CYANIDE	MG/L							0.0100		U	0.0100		U			
IRON	MG/L							41.0000		-	0.1210		U			
LEAD	MG/L							0.0126		-	0.0023		-			
MAGNESIUM	MG/L							68.2000		-	43.0000		-			

001209

SAMPLE NUMBER:	119413			119413F			119386			119386F			119387		
LAB:							DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MANGANESE MG/L							1.4000		-	0.7100		-			
MERCURY MG/L							0.0002		U	0.0002		U			
NICKEL MG/L							0.0486		-	0.0267		-			
POTASSIUM MG/L							5.1600		-	0.4320		U			
SELENIUM MG/L							0.0200		UJ	0.0020		UJ			
SILVER MG/L							0.0030		UJ	0.0030		UJ			
SODIUM MG/L							10.9000		-	11.0000		-			
THALLIUM MG/L							0.0010		U	0.0010		U			
VANADIUM MG/L							0.0460		-	0.0040		U			
ZINC MG/L							0.1160		-	0.0060		U			
RADIONUCLIDES															
URANIUM-238 PCI/L													2.2000	.4	J
URANIUM, TOTAL UG/L	19.0000		NV	19.0000		NV							7.6000	.5	-
URANIUM-234 PCI/L													2.2000	.4	J
THORIUM-230 PCI/L													0.3000	.2	UJ
RADIUM-226 PCI/L													1.0000	.5	UJ
URANIUM-235/236 PCI/L													0.2000	.1	UJ
THORIUM-232 PCI/L													0.2000	.1	UJ
RADIUM-228 PCI/L													3.0000	.9	U
THORIUM-228 PCI/L													0.2000	.2	UJ
STRONTIUM-90 PCI/L													2.4000	1.2	UJ
TECHNETIUM-99 PCI/L													15.0000	7.9	U
CESIUM-137 PCI/L													5.6000	3.5	UJ
GROSS ALPHA PCI/L													4.8000	3	UNV
GROSS BETA PCI/L													9.0000	3.3	NV
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L							10.0000		U						
1,2-DICHLOROBENZENE UG/L							10.0000		U						
1,3-DICHLOROBENZENE UG/L							10.0000		U						
1,4-DICHLOROBENZENE UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL UG/L							25.0000		UR						
2,4,6-TRICHLOROPHENOL UG/L							10.0000		UR						
2,4-DICHLOROPHENOL UG/L							10.0000		UR						
2,4-DIMETHYLPHENOL UG/L							10.0000		UR						
2,4-DINITROPHENOL UG/L							25.0000		UR						
2,4-DINITROTOLUENE UG/L							10.0000		U						
2,6-DINITROTOLUENE UG/L							10.0000		U						
2-CHLORONAPHTHALENE UG/L							10.0000		U						
2-CHLOROPHENOL UG/L							10.0000		UR						
2-METHYLNAPHTHALENE UG/L							10.0000		U						
2-METHYLPHENOL UG/L							10.0000		UR						

SAMPLE NUMBER:		119413			119413F			119386			119386F			119387		
LAB:								DATACHEM								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-NITROANILINE	UG/L							25.0000		U						
2-NITROPHENOL	UG/L							10.0000		UR						
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		UR						
3-NITROANILINE	UG/L							25.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UR						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		UR						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		UR						
4-NITROANILINE	UG/L							25.0000		UJ						
4-NITROPHENOL	UG/L							25.0000		UR						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CARBAZOLE	UG/L							10.0000		UR						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							2.0000		J						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UJ						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		UJ						

SAMPLE NUMBER:		119413			119413F			119386			119386F			119387		
LAB:								DATACHEM								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PENTACHLOROPHENOL	UG/L							25.0000		UR						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		UR						
PYRENE	UG/L							10.0000		U						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	119387F	119390	119418	119419	119421
TASK:	50.03.22	50.03.22	50.03.22	50.03.22	50.03.22
LAB:	CORE	FERMCO	DATACHEM	CORE	FERMCO
WELL OR BORING NUMBER:	11078	11078	11079	11079	11079
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-JUL-93	22-JUL-93	27-JUL-93	27-JUL-93	27-JUL-93
NORTH COORDINATE:	482143.6	482143.6	481038.41	481038.41	481038.41
EAST COORDINATE:	1379841.59	1379841.59	1378471.71	1378471.71	1378471.71
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							390.0000		-						
AMMONIA	MG/L							0.2100		-						
CHLORIDE	MG/L							2.7000		J						
FLUORIDE	MG/L							0.8000		-						
NITRATE/NITRITE	MG/L							0.1200		J						
PHENOLS	MG/L							0.0020		UJ						
PHOSPHORUS	MG/L							2.4000		-						
SULFATE	MG/L							50.0000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL KJELDAHL NITROGEN	MG/L							0.1000		U						
TOTAL ORGANIC CARBON	MG/L							2.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0100		UJ						
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U						
INORGANICS																
ALUMINUM	MG/L							19.4000		J						
ANTIMONY	MG/L							0.0450		UJ						
ARSENIC	MG/L							0.0086		-						
BARIUM	MG/L							0.2170		J						
BERYLLIUM	MG/L							0.0011		U						
CADMIUM	MG/L							0.0030		U						
CALCIUM	MG/L							224.0000		-						
CHROMIUM	MG/L							0.0403		UJ						
COBALT	MG/L							0.0187		-						
COPPER	MG/L							0.0581		-						
CYANIDE	MG/L							0.0100		U						
IRON	MG/L							40.7000		J						
LEAD	MG/L							0.0143		-						
MAGNESIUM	MG/L							85.5000		-						

001213

SAMPLE NUMBER:		119387F			119390			119418			119419			119421		
LAB:								DATACHEM								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							0.9900		-						
MERCURY	MG/L							0.0002		U						
NICKEL	MG/L							0.0615		-						
POTASSIUM	MG/L							7.9700		-						
SELENIUM	MG/L							0.0022		UJ						
SILVER	MG/L							0.0037		J						
SODIUM	MG/L							18.4000		-						
THALLIUM	MG/L							0.0010		U						
VANADIUM	MG/L							0.0373		-						
ZINC	MG/L							0.1030		U						
RADIONUCLIDES																
URANIUM-238	PCI/L	2.3000	.5	J							4.6000	.7	J			
URANIUM, TOTAL	UG/L	5.9000	.4	-	4.8000		NV				13.0000	.9	-	11.0000		NV
URANIUM-234	PCI/L	2.0000	.4	J							5.7000	1	J			
THORIUM-230	PCI/L	0.3000	.2	UJ							0.9000	.3	-			
RADIUM-226	PCI/L	1.0000	.3	UJ							2.6000	.3	J			
URANIUM-235/236	PCI/L	0.2000	.1	UJ							0.2000	.5	UJ			
THORIUM-232	PCI/L	0.2000	.1	UJ							0.9000	.4	-			
THORIUM, TOTAL	UG/L										8.2082	.4	NV			
RADIUM-228	PCI/L	3.0000	.8	U							3.0000	1.2	UJ			
THORIUM-228	PCI/L	0.2000	.2	UJ							0.9000	.5	-			
GROSS ALPHA	PCI/L	3.5000	2.3	UNV												
GROSS BETA	PCI/L	5.5000	3.3	UNV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		UJ						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						

SAMPLE NUMBER:	119387F	119390	119418	119419	119421
LAB:			DATACHEM		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	119421F	113792	070559	122949	122198
TASK:	50.03.22	20.03.05	50.03.18	50.03.18	50.03.18
LAB:	FERMCO	ITAS	TCT	TCT	TCT
WELL OR BORING NUMBER:	11079	11085	11091	11092	11093
DEPTH:	-	-	14-16	7.5-11	9.5-10.5
DATE COLLECTED:	27-JUL-93	16-JUN-93	09-AUG-93	06-AUG-93	23-JUL-93
NORTH COORDINATE:	481038.41	477869.01	480554.54	480468.62	480416.5
EAST COORDINATE:	1378471.71	1379926.48	1380456.89	1380151.66	1380394.69
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				380.5000		-									
AMMONIA	MG/L				0.1100		-									
CHLORIDE	MG/L				6.7800		-									
FLUORIDE	MG/L				0.4300		-									
NITRATE	MG/L				0.5200		J									
PHENOLS	MG/L				0.0100		U									
PHOSPHORUS	MG/L				12.1100		-									
SULFATE	MG/L				85.6000		-									
SULFIDE	MG/L				0.5000		U									
TOTAL KJELDAHL NITROGEN	MG/L				4.6100		-									
TOTAL ORGANIC CARBON	MG/L				1.3000		-									
TOTAL ORGANIC HALIDES	MG/L				0.0205		-									
TOTAL ORGANIC NITROGEN	MG/L				4.5000		-									
INORGANICS																
ALUMINUM	MG/L				0.1960		U									
ANTIMONY	MG/L				0.0074		-									
ARSENIC	MG/L				0.0020		U									
BARIUM	MG/L				1.1400		-									
BERYLLIUM	MG/L				0.0020		U									
CADMIUM	MG/L				0.0050		U									
CALCIUM	MG/L				109.0000		-									
CHROMIUM	MG/L				0.0100		U									
COBALT	MG/L				0.1160		-									
COPPER	MG/L				0.3320		-									
CYANIDE	MG/L				0.0020		UNV									
IRON	MG/L				370.0000		-									
LEAD	MG/L				0.0020		U									
MAGNESIUM	MG/L				42.1000		-									

001216

5704

SAMPLE NUMBER:		119421F			113792			070559			122949			122198		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L				0.0158		-									
MERCURY	MG/L				0.0004		-									
MOLYBDENUM	MG/L				0.1080		-									
NICKEL	MG/L				0.3390		-									
POTASSIUM	MG/L				27.4000		-									
SELENIUM	MG/L				0.0100		U									
SILICON	MG/L				7.4500		-									
SILVER	MG/L				0.0100		U									
SODIUM	MG/L				12.8000		-									
THALLIUM	MG/L				0.0020		U									
VANADIUM	MG/L				0.3760		-									
ZINC	MG/L				0.0050		U									
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.0500		U									
AROCLOR-1016	UG/L				1.0000		U									
AROCLOR-1221	UG/L				2.0000		U									
AROCLOR-1232	UG/L				1.0000		U									
AROCLOR-1242	UG/L				1.0000		U									
AROCLOR-1248	UG/L				1.0000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									
ENDRIN ALDEHYDE	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.0500		U									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				5.0000		U									

001217

SAMPLE NUMBER:	119421F	113792	070559	122949	122198
LAB:		IT/MWL			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4,6-DINITRO-2-METHYLPHENOL	UG/L				25.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				25.0000		U									
4-NITROPHENOL	UG/L				25.0000		U									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		U									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		UJ									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIMETHYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		U									
PENTACHLOROPHENOL	UG/L				25.0000		U									

SAMPLE NUMBER:	119421F	113792	070559	122949	122198
LAB:		IT/MWL			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES													
PHENANTHRENE	UG/L				10.0000		U						
PHENOL	MG/L				10.0000		U						
PYRENE	UG/L				10.0000		U						
TRIBUTYL PHOSPHATE	UG/L				10.0000		U						
VOLATILES													
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U	10.0000		U	32.0000		-	3.0000		J
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U	2.0000		J	10.0000		U	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
1,1-DICHLOROETHANE	UG/L				10.0000		U	3.0000		J	8.0000		J	10.0000		U
1,1-DICHLOROETHENE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
1,2-DICHLOROETHANE	UG/L				10.0000		U	1.0000		J	10.0000		U	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U	2.0000		J	10.0000		U	10.0000		U
1,2-DICHLOROPROPANE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
2-BUTANONE	UG/L				10.0000		UJ	10.0000		UR	10.0000		UR	10.0000		UR
2-HEXANONE	UG/L				10.0000		UR	10.0000		U	10.0000		U	10.0000		U
4-METHYL-2-PENTANONE	UG/L				10.0000		UR	4.0000		J	10.0000		U	10.0000		U
ACETONE	UG/L				10.0000		R	16.0000		UJ	10.0000		U	19.0000		UJ
BENZENE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		U
BROMODICHLOROMETHANE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
BROMOFORM	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
BROMOMETHANE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		UJ
CARBON DISULFIDE	UG/L				10.0000		UR	10.0000		U	10.0000		U	10.0000		U
CARBON TETRACHLORIDE	UG/L				10.0000		U	10.0000		U	5.0000		J	10.0000		U
CHLOROBENZENE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		U
CHLOROETHANE	UG/L				10.0000		UJ	10.0000		U	10.0000		U	10.0000		U
CHLOROFORM	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
CHLOROMETHANE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
DIBROMOCHLOROMETHANE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
ETHYLBENZENE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		U
METHYLENE CHLORIDE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
STYRENE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		U
TETRACHLOROETHENE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
TOLUENE	UG/L				10.0000		U	1.0000		J	2.0000		J	10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		UJ
TRICHLOROETHENE	UG/L				10.0000		U	1.0000		J	10.0000		U	10.0000		U
VINYL ACETATE	UG/L							10.0000		UJ	10.0000		UJ	10.0000		U
VINYL CHLORIDE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		UJ
XYLENES, TOTAL	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		U

001219

SAMPLE NUMBER:	070708			121925			122989			121484			122827		
LAB:	TCT			TCT			IT			TCT			IT		
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROETHENE	UG/L	10.0000		U	10.0000		U	44.0000		-	10.0000		U	20.0000		-
VINYL ACETATE	UG/L	10.0000		UJ	10.0000		U	10.0000		UJ	10.0000		UJ	10.0000		UJ
VINYL CHLORIDE	UG/L	10.0000		U	10.0000		U	120.0000		-	10.0000		U	31.0000		-
XYLENES, TOTAL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U	10.0000		U

SAMPLE NUMBER:		121445		003529			045161			045162			045613		
LAB:		TCT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	1.0000		J												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045614			120208			120208F			120210			120210-1		
TASK:		3.7			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		IT			DATACHEM			DATACHEM			FERMCO			FERMCO		
WELL OR BORING NUMBER:		1110			1110			1110			1110			1110		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		31-JAN-90			10-JUN-93			10-JUN-93			10-JUN-93			10-JUN-93		
NORTH COORDINATE:		480426.28			480426.28			480426.28			480426.28			480426.28		
EAST COORDINATE:		1381889.78			1381889.78			1381889.78			1381889.78			1381889.78		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				290.0000		-									
AMMONIA	MG/L				0.0500		U									
CHLORIDE	MG/L				4.5000		-									
FLUORIDE	MG/L				0.3000		-									
NITRATE	MG/L	0.4400		-												
NITRATE/NITRITE	MG/L				1.0000		-									
PHENOLS	MG/L				0.0020		U									
PHOSPHORUS	MG/L				0.2700		-									
SULFATE	MG/L				150.0000		-									
SULFIDE	MG/L				1.0000		U									
TOTAL ORGANIC CARBON	MG/L				2.0000		-									
TOTAL ORGANIC HALIDES	MG/L				0.0100		U									
INORGANICS																
ALUMINUM	MG/L				57.9000		-	0.0842		-						
ANTIMONY	MG/L				0.0157		U	0.0157		U						
ARSENIC	MG/L				0.0054		-	0.0010		U						
BARIUM	MG/L				0.6020		-	0.0715		-						
BERYLLIUM	MG/L				0.0037		U	0.0008		U						
CADMIUM	MG/L				0.0012		U	0.0012		U						
CALCIUM	MG/L				342.0000		-	123.0000		-						
CHROMIUM	MG/L				0.0868		-	0.0045		U						
COBALT	MG/L				0.0574		-	0.0034		U						
COPPER	MG/L				0.0794		-	0.0024		U						
CYANIDE	MG/L				0.0100		U	0.0100		U						
IRON	MG/L				103.0000		-	0.0121		U						
LEAD	MG/L				0.0230		-	0.0010		U						
MAGNESIUM	MG/L				111.0000		-	35.6000		-						
MANGANESE	MG/L				5.7500		-	0.0094		-						

SAMPLE NUMBER:		045614			120208			120208F			120210			120210-1		
LAB:					DATACHEM			DATACHEM								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L				0.0002		U	0.0002		U						
NICKEL	MG/L				0.1100		-	0.0070		U						
POTASSIUM	MG/L				15.2000		-	1.2100		-						
SELENIUM	MG/L				0.0200		UJ	0.0020		U						
SILVER	MG/L				0.0029		UJ	0.0029		UJ						
SODIUM	MG/L				7.8200		-	7.6500		-						
THALLIUM	MG/L				0.0010		U	0.0010		U						
VANADIUM	MG/L				0.1120		-	0.0029		U						
ZINC	MG/L				0.2520		-	0.0040		U						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L										51.0000		NV	51.0000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHENE	UG/L				10.0000		U									
1,2-DICHLOROETHANE	UG/L				10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U									
1,2-DICHLOROPROPANE	UG/L				10.0000		U									
2-BUTANONE	UG/L				10.0000		U									
2-HEXANONE	UG/L				10.0000		U									
4-METHYL-2-PENTANONE	UG/L				10.0000		U									
ACETONE	UG/L				10.0000		U									
BENZENE	UG/L				10.0000		U									
BROMODICHLOROMETHANE	UG/L				10.0000		U									
BROMOFORM	UG/L				10.0000		U									
BROMOMETHANE	UG/L				10.0000		U									
CARBON DISULFIDE	UG/L				10.0000		U									
CARBON TETRACHLORIDE	UG/L				10.0000		UJ									
CHLOROBENZENE	UG/L				10.0000		U									
CHLOROETHANE	UG/L				10.0000		U									
CHLOROFORM	UG/L				10.0000		U									
CHLOROMETHANE	UG/L				10.0000		UJ									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									

1223

SAMPLE NUMBER:	045614	120208	120208F	120210	120210-1
LAB:		DATACHEM			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
TRICHLOROETHENE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120210F			120211			120211F			120212			120212F	
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23	
LAB:		FERMCO			CORE			CORE			DATACHEM			DATACHEM	
WELL OR BORING NUMBER:		1110			1110			1110			1110			1110	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		10-JUN-93			10-JUN-93			10-JUN-93			10-JUN-93			10-JUN-93	
NORTH COORDINATE:		480426.28			480426.28			480426.28			480426.28			480426.28	
EAST COORDINATE:		1381889.78			1381889.78			1381889.78			1381889.78			1381889.78	
QA TYPE:		NORMAL			NORMAL			NORMAL			DUPLICATE			DUPLICATE	
QC OF:											120208			120208F	
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										280.0000		-			
AMMONIA	MG/L										0.0500		U			
CHLORIDE	MG/L										5.1000		-			
FLUORIDE	MG/L										0.2000		-			
NITRATE/NITRITE	MG/L										1.9000		-			
PHENOLS	MG/L										0.0020		U			
PHOSPHORUS	MG/L										0.3400		-			
SULFATE	MG/L										140.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										1.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0100		U			
INORGANICS																
ALUMINUM	MG/L										41.6000		-	0.0600		U
ANTIMONY	MG/L										0.0157		U	0.0157		U
ARSENIC	MG/L										0.0046		-	0.0010		U
BARIUM	MG/L										0.6190		-	0.0656		-
BERYLLIUM	MG/L										0.0029		U	0.0007		U
CADMIUM	MG/L										0.0012		U	0.0012		U
CALCIUM	MG/L										316.0000		-	121.0000		-
CHROMIUM	MG/L										0.0635		-	0.0039		U
COBALT	MG/L										0.0393		-	0.0039		U
COPPER	MG/L										0.0576		-	0.0024		U
CYANIDE	MG/L										0.0100		U	0.0100		U
IRON	MG/L										80.1000		-	0.0147		U
LEAD	MG/L										0.0169		-	0.0010		U
MAGNESIUM	MG/L										97.2000		-	34.6000		-
MANGANESE	MG/L										3.6400		-	0.0135		-
MERCURY	MG/L										0.0002		U	0.0002		U

001225

SAMPLE NUMBER:		120210F			120211			120211F			120212 DATACHEM NONE-UNF			120212F DATACHEM NONE-FIL		
LAB:																
SUFFIX/FILTERFLAG:		-			-			-								
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L										0.0805		-	0.0077		-
POTASSIUM	MG/L										10.6000		-	1.1700		-
SELENIUM	MG/L										0.0020		UJ	0.0020		U
SILVER	MG/L										0.0029		UJ	0.0029		UJ
SODIUM	MG/L										8.4100		-	8.1900		-
THALLIUM	MG/L										0.0010		U	0.0010		U
VANADIUM	MG/L										0.0806		-	0.0029		U
ZINC	MG/L										0.2040		-	0.0040		U
RADIONUCLIDES																
URANIUM-238	PCI/L				19.9000	2.3	J	16.3000	3	J						
URANIUM, TOTAL	UG/L	56.0000		NV	51.4000	3.6	-	42.1000	2.9	-						
URANIUM-234	PCI/L				15.6000	1.9	J	14.5000	2.5	J						
THORIUM-230	PCI/L				0.4000	.3	J	0.2000	.2	UJ						
RADIUM-226	PCI/L				4.2000	.7	J	1.0000	.2	U						
URANIUM-235/236	PCI/L				1.7000	.6	J	0.5000	.4	J						
THORIUM-232	PCI/L				0.5000	.3	J	0.2000	.3	UJ						
THORIUM, TOTAL	UG/L				4.5601	.3	NV									
RADIUM-228	PCI/L				3.0000	1.3	U	3.0000	1.6	U						
THORIUM-228	PCI/L				0.6000	.7	J	0.2000	.4	UJ						
TECHNETIUM-99	PCI/L				15.0000	5.7	UJ	16.3000	9.7	UJ						
GROSS ALPHA	PCI/L				59.0000	14.2	NV	30.0000	4.1	NV						
GROSS BETA	PCI/L				38.9000	13	NV	20.4000	3.4	NV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		UJ			

000228

R704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120214			120214F			120215			120215F			EMGW_SYSGEN_274
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			GWMON
LAB:		FERMCO			FERMCO			CORE			CORE			NET
WELL OR BORING NUMBER:		1110			1110			1110			1110			1110
DEPTH:		-			-			-			-			-
DATE COLLECTED:		10-JUN-93			10-JUN-93			10-JUN-93			10-JUN-93			20-JUN-90
NORTH COORDINATE:		480426.28			480426.28			480426.28			480426.28			480426.28
EAST COORDINATE:		1381889.78			1381889.78			1381889.78			1381889.78			1381889.78
QA TYPE:		DUPLICATE			DUPLICATE			DUPLICATE			DUPLICATE			NORMAL
QC OF:		120210			120210F			120211			120211F			
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L													12.0000		NV
NITRATE, AS NITROGEN	MG/L													1.1600		NV
SULFATE	MG/L													214.0000		NV
TOTAL ORGANIC CARBON	MG/L													5.0000		NV
TOTAL ORGANIC HALOGENS	MG/L													0.0100		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L							20.2000	3.2	R	23.1000	3.7	J	0.2500		UNV
URANIUM, TOTAL	UG/L	72.0000		NV	64.0000		NV	64.4000	4.5	-	66.0000	4.6	-	1.0000		UNV
URANIUM-234	PCI/L							16.9000	2.8	R	19.2000	3.2	J	0.3370		NV
THORIUM-230	PCI/L							0.8000	.3	J	0.7000	.3	J	0.8070		NV
RADIUM-226	PCI/L							1.6000	.5	-	1.1000	.4	-	1.0000		UNV
URANIUM-235/236	PCI/L							1.9000	.7	R	0.9000	.5	J	0.2500		UNV
THORIUM-232	PCI/L							1.1000	.4	J	0.2000	.3	UJ	3.1300		NV
THORIUM, TOTAL	UG/L							10.0322	.4	NV				28.2000		NV
RADIUM-228	PCI/L							3.0000	1.5	U	3.0000	1.2	U	3.0000		UNV
THORIUM-228	PCI/L							1.6000	.5	J	0.2000	.9	UJ	0.4500		UNV
TECHNETIUM-99	PCI/L							39.4000	8.1	J						
GROSS ALPHA	PCI/L							58.6000	11	NV	18.5000	3	NV	150.0000		UNV
GROSS BETA	PCI/L							75.4000	8.4	NV	32.5000	2.2	NV	361.0000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHENE	UG/L													1.0000		UNV
1,2-DICHLOROETHANE	UG/L													1.0000		UNV

422100

SAMPLE NUMBER:	120214			120214F			120215			120215F			EMGW_SYSGEN_274		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHENE (TOTAL) UG/L													1.0000		UNV
1,2-DICHLOROPROPANE UG/L													1.0000		UNV
2-BUTANONE UG/L													2.0000		UNV
2-HEXANONE UG/L													2.0000		UNV
4-METHYL-2-PENTANONE UG/L													2.0000		UNV
ACETONE UG/L													2.0000		UNV
BENZENE UG/L													1.0000		UNV
BROMODICHLOROMETHANE UG/L													1.0000		UNV
BROMOFORM UG/L													1.0000		UNV
BROMOMETHANE UG/L													1.0000		UNV
CARBON DISULFIDE UG/L													1.0000		UNV
CARBON TETRACHLORIDE UG/L													1.0000		UNV
CHLOROBENZENE UG/L													1.0000		UNV
CHLOROFORM UG/L													1.0000		UNV
CHLOROMETHANE UG/L													1.0000		UNV
CIS-1,3-DICHLOROPROPENE UG/L													1.0000		UNV
DIBROMOCHLOROMETHANE UG/L													1.0000		UNV
ETHYLBENZENE UG/L													1.0000		UNV
METHYLENE CHLORIDE UG/L													1.0000		UNV
STYRENE UG/L													1.0000		UNV
TETRACHLOROETHENE UG/L													1.0000		UNV
TOLUENE UG/L													1.0000		UNV
TRANS-1,3-DICHLOROPROPENE UG/L													1.0000		UNV
TRICHLOROETHENE UG/L													1.0000		UNV
VINYL ACETATE UG/L													2.0000		UNV
VINYL CHLORIDE UG/L													1.0000		UNV
XYLENES, TOTAL UG/L													1.0000		UNV

SAMPLE NUMBER:		EMGW_SYSGEN_275			EMGW_SYSGEN_276			EMGW_SYSGEN_276D			EMGW_SYSGEN_277			EMGW_SYSGEN_278		
LAB:					NET			NET						NET		
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L													129.0000		NV
MANGANESE	MG/L													0.5400		NV
MERCURY	MG/L													0.0002		UNV
MOLYBDENUM	MG/L													0.0250		UNV
NICKEL	MG/L													0.0940		NV
POTASSIUM	MG/L													13.3000		NV
SELENIUM	MG/L													0.0025		UNV
SILVER	MG/L													0.0010		UNV
SODIUM	MG/L													9.0000		NV
THALLIUM	MG/L													0.0100		UNV
VANADIUM	MG/L													0.1760		NV
ZINC	MG/L													0.3180		NV
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV	1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L										13.4000		NV	24.8000		NV
URANIUM, TOTAL	UG/L										43.7000		NV	45.2000		NV
URANIUM-234	PCI/L										12.8000		NV	20.5000		NV
THORIUM-230	PCI/L										4.3600		NV	0.8470		NV
RADIUM-226	PCI/L										1.0000		UNV	1.0000		UNV
URANIUM-235/236	PCI/L										1.1700		NV	1.4300		NV
THORIUM-232	PCI/L										4.7100		NV	0.2800		UNV
THORIUM, TOTAL	UG/L										42.5000		NV	2.6000		UNV
RADIUM-228	PCI/L										3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L										0.2160		NV	0.5510		NV
NEPTUNIUM-237	PCI/L													0.5000		UNV
PLUTONIUM-239/240	PCI/L													0.5000		UNV
PLUTONIUM-238	PCI/L													0.5000		UNV
TECHNETIUM-99	PCI/L													26.0000		UNV
RUTHENIUM-106	PCI/L													150.0000		UNV
CESIUM-137	PCI/L													7.1000		UNV
GROSS ALPHA	PCI/L										128.0000		NV	157.0000		NV
GROSS BETA	PCI/L										134.0000		NV	222.0000		NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV							10.0000		UNV	10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV

001229

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_275			EMGW_SYSGEN_276			EMGW_SYSGEN_276D			EMGW_SYSGEN_277			EMGW_SYSGEN_278		
LAB:		NET									NET			NET		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	2.0000		UNV							2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L	2.0000		UNV							2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV							2.0000		UNV	2.0000		UNV
ACETONE	UG/L	2.0000		UNV							2.0000		UNV	2.0000		UNV
BENZENE	UG/L	1.0000		UNV	0.5000		UNV	0.5000		UNV	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	1.0000		UNV	0.5000		UNV	0.5000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
STYRENE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
TETRACHLOROETHENE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	1.0000		UNV	0.5000		UNV	0.5000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
VINYL ACETATE	UG/L	2.0000		UNV							2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L	1.0000		UNV							1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

001230

8704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		121963			121582			070658			122628			930802-045
TASK:		50.03.18			50.03.18			50.03.18			50.03.18			50.03.18
LAB:		TCT			TCT			TCT			TCT			CORE
WELL OR BORING NUMBER:		11100			11101			11102			11103			11107
DEPTH:		18.5-20			14.5-17			6.5-10.5			14-19			-
DATE COLLECTED:		23-JUL-93			23-JUL-93			10-AUG-93			27-JUL-93			30-JUL-93
NORTH COORDINATE:		479637.03			480776.06			480706.9			480700.44			480386.36
EAST COORDINATE:		1380251.93			1380362.71			1380388.01			1380435.98			1381778.73
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L													0.2000	1.9	R
URANIUM, TOTAL	UG/L													0.1000	.1	U
URANIUM-234	PCI/L													0.2000	.2	R
URANIUM-235/236	PCI/L													0.1000	.1	R
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U	10.0000		U	18.0000		-	5.0000		J			
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
1,1-DICHLOROETHANE	UG/L	10.0000		U	10.0000		U	45.0000		-	17.0000		-			
1,1-DICHLOROETHENE	UG/L	10.0000		U	10.0000		U	5.0000		J	10.0000		U			
1,2-DICHLOROETHANE	UG/L	10.0000		U	10.0000		U	1.0000		J	1.0000		J			
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ			
1,2-DICHLOROPROPANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
2-BUTANONE	UG/L	10.0000		UR	10.0000		UR	13.0000		J	10.0000		UR			
2-HEXANONE	UG/L	10.0000		U	10.0000		U	1.0000		J	10.0000		U			
4-METHYL-2-PENTANONE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
ACETONE	UG/L	10.0000		UJ	25.0000		UJ	27.0000		UJ	10.0000		UJ			
BENZENE	UG/L	10.0000		U	10.0000		U	1.0000		J	10.0000		U			
BROMODICHLOROMETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
BROMOFORM	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
BROMOMETHANE	UG/L	10.0000		U	10.0000		UJ	10.0000		U	10.0000		U			
CARBON DISULFIDE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
CARBON TETRACHLORIDE	UG/L	10.0000		U	10.0000		U	3.0000		J	10.0000		U			
CHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			
CHLOROETHANE	UG/L	10.0000		U	10.0000		U	26.0000		-	10.0000		U			
CHLOROFORM	UG/L	10.0000		U	10.0000		U	2.0000		J	10.0000		U			
CHLOROMETHANE	UG/L	10.0000		U	10.0000		UJ	10.0000		U	2.0000		J			
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U			

001231

SAMPLE NUMBER:		121963		121582		070658		122628		930802-045	
LAB:		TCT		TCT		TCT		TCT			
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
DIBROMOCHLOROMETHANE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U		
ETHYLBENZENE	UG/L	10.0000	U	10.0000	U	1.0000	J	10.0000	U		
METHYLENE CHLORIDE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U		
STYRENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U		
TETRACHLOROETHENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U		
TOLUENE	UG/L	10.0000	U	10.0000	U	1.0000	J	10.0000	U		
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000	U	10.0000	UJ	10.0000	U	10.0000	U		
TRICHLOROETHENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U		
VINYL ACETATE	UG/L	10.0000	U	10.0000	U	10.0000	UJ	10.0000	UJ		
VINYL CHLORIDE	UG/L	10.0000	U	10.0000	UJ	1.0000	J	10.0000	U		
XYLENES, TOTAL	UG/L	10.0000	U	10.0000	U	4.0000	J	10.0000	U		

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	930802-051	930802-052	930802-053	930802-054	930802-055
TASK:	50.03.18	50.03.18	50.03.18	50.03.18	50.03.18
LAB:	CORE	CORE	CORE	CORE	CORE
WELL OR BORING NUMBER:	11107	11107	11107	11107	11107
DEPTH:	-	-	-	-	-
DATE COLLECTED:	30-JUL-93	30-JUL-93	30-JUL-93	30-JUL-93	30-JUL-93
NORTH COORDINATE:	480386.36	480386.36	480386.36	480386.36	480386.36
EAST COORDINATE:	1381778.73	1381778.73	1381778.73	1381778.73	1381778.73
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	1.8000	1.9	J	4.0000	1.9	J	2.6000	1.9	R	2.8000	1.9	J	4.5000	2	R
URANIUM, TOTAL	UG/L	4.2000	.3	-	30.8000	2.2	J	5.1000	.4	-	9.9000	.7	J	14.6000	1	R
URANIUM-234	PCI/L	1.5000	.4	J	3.9000	.6	J	2.6000	.4	R	2.5000	.4	J	3.9000	.6	R
URANIUM-235/236	PCI/L	0.2000	.1	UJ	0.2000	.1	UJ	0.2000	.1	R	0.2000	.1	UJ	0.2000	.1	R

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		930802-056			930805-012			930805-035			003530			045163		
TASK:		50.03.18			50.03.18			50.03.18			3.2.4			3.7		
LAB:		CORE			CORE			CORE			IT			WMCO		
WELL OR BORING NUMBER:		11107			11107			11107			1111			1111		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		30-JUL-93			05-AUG-93			03-AUG-93			25-JAN-89			18-JUL-89		
NORTH COORDINATE:		480386.36			480386.36			480386.36			480196.16			480196.16		
EAST COORDINATE:		1381778.73			1381778.73			1381778.73			1381878.06			1381878.06		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	2.7000	1.9	J	0.5000	.5	R	10.3000	2.1	R						
URANIUM, TOTAL	UG/L	9.1000	.6	J	3.8000	.3	-	53.9000	3.8	-				19.5000		NV
URANIUM-234	PCI/L	2.6000	.5	J	0.2000	.3	R	11.9000	2.3	R						
THORIUM-230	PCI/L				0.5000	.2	J	1.7000	1.1	J						
RADIUM-226	PCI/L				1.3000	.2	-	6.2000	.5	-						
URANIUM-235/236	PCI/L	0.2000	.1	UJ	0.1000	.8	R	0.5000	1	R						
THORIUM-232	PCI/L				0.8000	.3	J	2.6000	1.7	J						
THORIUM, TOTAL	UG/L				7.2961	.3	NV	23.7127	1.7	NV						
RADIUM-228	PCI/L				3.0000	.2	U									
THORIUM-228	PCI/L				0.8000	.2	J	5.1000	3.1	J						
STRONTIUM-90	PCI/L										5.0000		U			

001234

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045164			045360			045361			120105			120105F
TASK:		3.7			3.7			3.7			50.03.23			50.03.23
LAB:		IT			IT			IT			DATACHEM			DATACHEM
WELL OR BORING NUMBER:		1111			1111			1111			1111			1111
DEPTH:		-			-			-			-			-
DATE COLLECTED:		06-OCT-89			06-OCT-89			31-JAN-90			10-JUN-93			10-JUN-93
NORTH COORDINATE:		480196.16			480196.16			480196.16			480196.16			480196.16
EAST COORDINATE:		1381878.06			1381878.06			1381878.06			1381878.06			1381878.06
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										260.0000		-			
AMMONIA	MG/L										0.0500		U			
CHLORIDE	MG/L										9.0000		-			
FLUORIDE	MG/L										0.2000		-			
NITRATE	MG/L				0.4400		-	1.5600		-						
NITRATE/NITRITE	MG/L										0.8800		-			
PHENOLS	MG/L										0.0020		U			
PHOSPHORUS	MG/L										0.2900		-			
SULFATE	MG/L										55.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										2.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0100		U			
INORGANICS																
ALUMINUM	MG/L										27.3000		-	0.0678		-
ANTIMONY	MG/L										0.0157		U	0.0157		U
ARSENIC	MG/L										0.0038		-	0.0010		U
BARIUM	MG/L										0.1750		-	0.0437		-
BERYLLIUM	MG/L										0.0021		U	0.0005		U
CADMIUM	MG/L										0.0012		U	0.0012		U
CALCIUM	MG/L										184.0000		-	88.7000		-
CHROMIUM	MG/L										0.0443		-	0.0042		U
COBALT	MG/L										0.0231		U	0.0034		U
COPPER	MG/L										0.0461		-	0.0024		U
CYANIDE	MG/L										0.0100		U	0.0100		U
IRON	MG/L										51.3000		-	0.0760		U
LEAD	MG/L										0.0150		-	0.0010		U
MAGNESIUM	MG/L										72.0000		-	23.6000		-
MANGANESE	MG/L										0.8490		-	0.0052		-

001235

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045164			045360			045361			120105			120105F		
LAB:											DATACHEM			DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L										0.0002		U	0.0002		U
NICKEL	MG/L										0.0463		U	0.0070		U
POTASSIUM	MG/L										8.2300		-	1.0200		-
SELENIUM	MG/L										0.0020		UJ	0.0020		U
SILVER	MG/L										0.0029		UJ	0.0029		UJ
SODIUM	MG/L										6.7800		-	6.1400		-
THALLIUM	MG/L										0.0010		U	0.0010		U
VANADIUM	MG/L										0.0547		-	0.0029		U
ZINC	MG/L										0.1320		-	0.0105		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	41.00004		-												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		UJ			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			

SAMPLE NUMBER:	045164	045360	045361	120105	120105F
LAB:				DATACHEM	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120108			120108F			120109			120109F			EMGW_SYSGEN_279		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			GWMON		
LAB:		FERMCO			FERMCO			CORE			CORE			NET		
WELL OR BORING NUMBER:		1111			1111			1111			1111			1111		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		10-JUN-93			10-JUN-93			10-JUN-93			10-JUN-93			20-JUN-90		
NORTH COORDINATE:		480196.16			480196.16			480196.16			480196.16			480196.16		
EAST COORDINATE:		1381878.06			1381878.06			1381878.06			1381878.06			1381878.06		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L													9.0000		NV
NITRATE, AS NITROGEN	MG/L													2.3800		NV
SULFATE	MG/L													56.0000		NV
TOTAL ORGANIC CARBON	MG/L													3.0000		NV
TOTAL ORGANIC HALOGENS	MG/L													0.0890		NV
RADIONUCLIDES																
URANIUM-238	PCI/L							8.7000	1.5	R	8.3000	1.8	J	12.4000		NV
URANIUM, TOTAL	UG/L	25.0000		NV	22.0000		NV	24.9000	1.7	-	17.0000	1.2	-	37.3000		NV
URANIUM-234	PCI/L							8.2000	1.4	R	7.6000	1.2	J	12.7000		NV
THORIUM-230	PCI/L							0.5000	.3	J	0.3000	.2	UJ	1.6600		NV
RADIUM-226	PCI/L							2.6000	.6	-	1.0000	.2	UJ	2.4900		NV
URANIUM-235/236	PCI/L							0.3000	.5	R	0.3000	.3	J	0.7610		NV
THORIUM-232	PCI/L							0.3000	.3	J	0.2000	.3	UJ	1.0200		NV
THORIUM, TOTAL	UG/L							2.7361	.3	NV				9.1800		NV
RADIUM-228	PCI/L							3.0000	1.2	U	3.0000	1.1	U	3.0000		UNV
THORIUM-228	PCI/L							0.4000	.4	J	0.2000	.4	UJ	1.1900		NV
TECHNETIUM-99	PCI/L							33.9000	7.7	J	15.8000	9.1	UJ			
GROSS ALPHA	PCI/L							20.5000	9.6	NV	10.7000	2.6	NV	21.0000		UNV
GROSS BETA	PCI/L							21.3000	6.9	NV	7.4000	2.4	NV	54.3000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHENE	UG/L													1.0000		UNV
1,2-DICHLOROETHANE	UG/L													1.0000		UNV

001238

5704

SAMPLE NUMBER:	120108			120108F			120109			120109F			EMGW_SYSGEN_279		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHENE (TOTAL) UG/L													1.0000		UNV
1,2-DICHLOROPROPANE UG/L													1.0000		UNV
2-BUTANONE UG/L													2.0000		UNV
2-HEXANONE UG/L													2.0000		UNV
4-METHYL-2-PENTANONE UG/L													2.0000		UNV
ACETONE UG/L													2.0000		UNV
BENZENE UG/L													1.0000		UNV
BROMODICHLOROMETHANE UG/L													1.0000		UNV
BROMOFORM UG/L													1.0000		UNV
BROMOMETHANE UG/L													1.0000		UNV
CARBON DISULFIDE UG/L													1.0000		UNV
CARBON TETRACHLORIDE UG/L													1.0000		UNV
CHLOROBENZENE UG/L													1.0000		UNV
CHLOROFORM UG/L													1.0000		UNV
CHLOROMETHANE UG/L													1.0000		UNV
CIS-1,3-DICHLOROPROPENE UG/L													1.0000		UNV
DIBROMOCHLOROMETHANE UG/L													1.0000		UNV
ETHYLBENZENE UG/L													1.0000		UNV
METHYLENE CHLORIDE UG/L													1.0000		UNV
STYRENE UG/L													1.0000		UNV
TETRACHLOROETHENE UG/L													1.0000		UNV
TOLUENE UG/L													1.0000		UNV
TRANS-1,3-DICHLOROPROPENE UG/L													1.0000		UNV
TRICHLOROETHENE UG/L													1.0000		UNV
VINYL ACETATE UG/L													2.0000		UNV
VINYL CHLORIDE UG/L													1.0000		UNV
XYLENES, TOTAL UG/L													1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_280	EMGW_SYSGEN_281	EMGW_SYSGEN_282	30929F11112-02	30929F11112-03
TASK:	GWMON	GWMON	GWMON	50.03.24	50.03.24
LAB:	NET	NET	NET	IT	FERMCO
WELL OR BORING NUMBER:	1111	1111	1111	11112	11112
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-SEP-90	13-DEC-90	13-MAR-91	29-SEP-93	29-SEP-93
NORTH COORDINATE:	480196.16	480196.16	480196.16	481616.94	481616.94
EAST COORDINATE:	1381878.06	1381878.06	1381878.06	1380504.36	1380504.36
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	255.0000		NV	256.0000		NV	222.0000		NV						
AMMONIA	MG/L				0.0400		NV	0.0600		NV						
CHLORIDE	MG/L	8.0000		NV	8.0000		NV	6.0000		NV						
FLUORIDE	MG/L	1.9900		NV	0.1600		NV	0.2400		NV						
NITRATE, AS NITROGEN	MG/L	2.0400		NV				1.7200		NV						
NITRATE/NITRITE	MG/L				1.4900		NV									
PH	STD	6.9000		NV	6.5200		NV	7.2000		NV						
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV						
PHOSPHORUS	MG/L				0.4400		NV	3.1300		NV						
SPECIFIC CONDUCTIVITY	UMHOS/CM	597.0000		NV	638.0000		NV	510.0000		NV						
SULFATE	MG/L	63.0000		NV	61.0000		NV	68.0000		NV						
TOTAL DISSOLVED SOLIDS	MG/L	480.0000		NV	384.0000		NV	324.0000		NV						
TOTAL ORGANIC CARBON	MG/L	5.0000		NV	1.0000		UNV	14.0000		NV						
TOTAL ORGANIC HALOGENS	MG/L	0.0140		NV	0.0100		UNV	0.0100		UNV						
INORGANICS																
ALUMINUM	MG/L							49.6000		NV	0.0400		U			
ANTIMONY	MG/L							0.0250		UNV						
ARSENIC	MG/L							0.0270		NV						
BARIUM	MG/L							0.4630		NV						
BERYLLIUM	MG/L							0.0100		UNV						
BORON	MG/L										0.4270		-			
CADMIUM	MG/L							0.0010		UNV						
CALCIUM	MG/L							370.0000		NV	59.6000		-			
CHROMIUM	MG/L							0.0050		UNV						
COBALT	MG/L							0.0250		UNV						
COPPER	MG/L							0.0970		NV						
CYANIDE	MG/L				0.0050		UNV	0.0050		UNV						
IRON	MG/L							92.8000		NV	0.0100		U			

SAMPLE NUMBER:		EMGW_SYSGEN_280			EMGW_SYSGEN_281			EMGW_SYSGEN_282			30929F11112-02			30929F11112-03		
LAB:								NET			IT					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L							0.0050		UNV						
MAGNESIUM	MG/L							158.0000		NV	15.6000		-			
MANGANESE	MG/L							1.6400		NV						
MERCURY	MG/L							0.0002		UNV						
MOLYBDENUM	MG/L							0.0250		UNV						
NICKEL	MG/L							0.0050		UNV						
POTASSIUM	MG/L							12.8000		NV	1.0000		U			
SELENIUM	MG/L							0.0025		UNV						
SILICON	MG/L										6.6500		-			
SILVER	MG/L							0.0010		UNV						
SODIUM	MG/L							6.4000		NV	82.5000		-			
THALLIUM	MG/L							0.0100		UNV						
VANADIUM	MG/L							0.0500		UNV						
ZINC	MG/L							0.4120		NV						
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L				10.8000		NV	13.1000		NV						
URANIUM, TOTAL	UG/L				20.9000		NV	26.0000		NV				380.0000		NV
URANIUM-234	PCI/L				11.0000		NV	11.7000		NV						
THORIUM-230	PCI/L				0.5800		UNV	1.6500		NV						
RADIUM-226	PCI/L				1.0000		UNV	1.0000		UNV						
URANIUM-235/236	PCI/L				0.7530		NV	0.8070		NV						
THORIUM-232	PCI/L				0.5800		UNV	1.3600		NV						
THORIUM, TOTAL	UG/L				5.3000		UNV	12.3000		NV						
RADIUM-228	PCI/L				3.0000		UNV	3.0000		UNV						
THORIUM-228	PCI/L				1.8700		NV	3.2300		NV						
NEPTUNIUM-237	PCI/L							0.5000		UNV						
PLUTONIUM-239/240	PCI/L							0.5000		UNV						
PLUTONIUM-238	PCI/L							0.5000		UNV						
TECHNETIUM-99	PCI/L							24.0000		UNV						
RUTHENIUM-106	PCI/L							150.0000		UNV						
CESIUM-137	PCI/L							7.1000		UNV						
GROSS ALPHA	PCI/L				30.0000		NV	72.4000		NV						
GROSS BETA	PCI/L				51.2000		NV	156.0000		NV						
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV	10.0000		UNV	10.0000		UNV						

VOLATILES																	
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV							

06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_280			EMGW_SYSGEN_281			EMGW_SYSGEN_282			30929F11112-02			30929F11112-03		
LAB:	NET			NET			NET								
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
2-BUTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV						
2-HEXANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV						
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV						
ACETONE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV						
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
BROMOFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
BROMOMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
CARBON DISULFIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
CHLOROBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
CHLOROETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
CHLOROFORM	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
CHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
ETHYLBENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
METHYLENE CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
VINYL ACETATE	UG/L	2.0000		UNV	2.0000		UNV	2.0000		UNV						
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV						

001242

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30929U11112-03	003531	045165	045166	045441
TASK:	50.03.24	3.2.4	3.7	3.7	3.7
LAB:	FERMCO	IT	WMCO	IT	IT
WELL OR BORING NUMBER:	11112	1112	1112	1112	1112
DEPTH:	-	-	-	-	-
DATE COLLECTED:	29-SEP-93	25-JAN-89	18-JUL-89	18-OCT-89	18-OCT-89
NORTH COORDINATE:	481616.94	479991.52	479991.52	479991.52	479991.52
EAST COORDINATE:	1380504.36	1381663.15	1381663.15	1381663.15	1381663.15
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.1000		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	370.0000		NV				123.0000		NV				356.0000	52	-
STRONTIUM-90	PCI/L				5.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045442	120333	120333F	120336	120336F
TASK:	3.7	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	IT	DATACHEM	DATACHEM	FERMCO	FERMCO
WELL OR BORING NUMBER:	1112	1112	1112	1112	1112
DEPTH:	-	-	-	-	-
DATE COLLECTED:	31-JAN-90	10-JUN-93	10-JUN-93	10-JUN-93	10-JUN-93
NORTH COORDINATE:	479991.52	479991.52	479991.52	479991.52	479991.52
EAST COORDINATE:	1381663.15	1381663.15	1381663.15	1381663.15	1381663.15
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				270.0000		-									
AMMONIA	MG/L				0.1100		-									
CHLORIDE	MG/L				120.0000		-									
FLUORIDE	MG/L				0.7000		-									
NITRATE	MG/L	0.1000		U												
NITRATE/NITRITE	MG/L				1.3000		-									
PHENOLS	MG/L				0.0020		U									
PHOSPHORUS	MG/L				0.4700		-									
SULFATE	MG/L				86.0000		-									
SULFIDE	MG/L				1.0000		U									
TOTAL ORGANIC CARBON	MG/L				2.0000		-									
TOTAL ORGANIC HALIDES	MG/L				0.0200		-									
INORGANICS																
ALUMINUM	MG/L				2.0200		-	0.0600		U						
ANTIMONY	MG/L				0.0157		U	0.0157		U						
ARSENIC	MG/L				0.0011		-	0.0010		U						
BARIUM	MG/L				0.0931		-	0.0900		-						
BERYLLIUM	MG/L				0.0005		U	0.0005		U						
CADMIUM	MG/L				0.0012		U	0.0012		U						
CALCIUM	MG/L				92.9000		J	107.0000		J						
CHROMIUM	MG/L				0.0073		U	0.0055		U						
COBALT	MG/L				0.0036		U	0.0054		U						
COPPER	MG/L				0.0073		-	0.0024		U						
CYANIDE	MG/L				0.0100		U	0.0100		U						
IRON	MG/L				3.4300		-	0.0396		U						
LEAD	MG/L				0.0012		-	0.0010		U						
MAGNESIUM	MG/L				30.3000		J	39.1000		J						
MANGANESE	MG/L				0.2190		-	0.0059		-						

001244

5704

SAMPLE NUMBER:	045442	120333	120333F	120336	120336F
LAB:		DATACHEM	DATACHEM		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-FIL	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L				0.0002		U	0.0002		U						
NICKEL	MG/L				0.0130		U	0.0070		U						
POTASSIUM	MG/L				2.6900		-	2.2400		-						
SELENIUM	MG/L				0.0020		U	0.0020		U						
SILVER	MG/L				0.0045		UJ	0.0029		J						
SODIUM	MG/L				123.0000		-	123.0000		-						
THALLIUM	MG/L				0.0010		U	0.0010		UJ						
VANADIUM	MG/L				0.0033		U	0.0029		U						
ZINC	MG/L				0.0179		U	0.0164		U						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L										240.0000		NV	500.0000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				0.5000		J									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHENE	UG/L				10.0000		U									
1,2-DICHLOROETHANE	UG/L				10.0000		UJ									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		UJ									
1,2-DICHLOROPROPANE	UG/L				10.0000		U									
2-BUTANONE	UG/L				10.0000		UJ									
2-HEXANONE	UG/L				10.0000		U									
4-METHYL-2-PENTANONE	UG/L				10.0000		U									
ACETONE	UG/L				10.0000		UJ									
BENZENE	UG/L				10.0000		U									
BROMODICHLOROMETHANE	UG/L				10.0000		U									
BROMOFORM	UG/L				10.0000		U									
BROMOMETHANE	UG/L				10.0000		U									
CARBON DISULFIDE	UG/L				10.0000		U									
CARBON TETRACHLORIDE	UG/L				10.0000		U									
CHLOROBENZENE	UG/L				10.0000		U									
CHLOROETHANE	UG/L				10.0000		UJ									
CHLOROFORM	UG/L				10.0000		UJ									
CHLOROMETHANE	UG/L				10.0000		UJ									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									

SAMPLE NUMBER:	045442			120333		120333F			120336			120336F		
LAB:				DATACHEM										
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES														
TRANS-1,3-DICHLOROPROPENE UG/L				10.0000	U									
TRICHLOROETHENE UG/L				10.0000	U									
VINYL CHLORIDE UG/L				10.0000	U									
XYLENES, TOTAL UG/L				10.0000	U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120337			EMGW_SYSGEN_283			EMGW_SYSGEN_284			EMGW_SYSGEN_285			EMGW_SYSGEN_286		
TASK:		50.03.23			GWMON			GWMON			GWMON			GWMON		
LAB:		CORE			NET			NET			NET			NET		
WELL OR BORING NUMBER:		1112			1112			1112			1112			1112		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		11-JUN-93			21-JUN-90			18-SEP-90			25-OCT-90			13-DEC-90		
NORTH COORDINATE:		479991.52			479991.52			479991.52			479991.52			479991.52		
EAST COORDINATE:		1381663.15			1381663.15			1381663.15			1381663.15			1381663.15		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							279.0000		NV				372.0000		NV
AMMONIA	MG/L													0.0600		NV
CHLORIDE	MG/L				370.0000		NV	305.0000		NV				360.0000		NV
FLUORIDE	MG/L							2.0300		NV				0.5100		NV
NITRATE, AS NITROGEN	MG/L				1.9000		NV	0.2700		NV						
NITRATE/NITRITE	MG/L													2.4000		NV
PH	STD							7.1200		NV				6.5100		NV
PHENOLS	MG/L							0.0050		UNV				0.0050		UNV
PHOSPHORUS	MG/L													0.4900		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM							1820.0000		NV				2230.0000		NV
SULFATE	MG/L				168.0000		NV	182.0000		NV				153.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L							1230.0000		NV				1130.0000		NV
TOTAL ORGANIC CARBON	MG/L				3.0000		NV	10.0000		NV				2.0000		NV
TOTAL ORGANIC HALOGENS	MG/L				0.0460		NV	0.0550		NV				0.0100		UNV
INORGANICS																
CYANIDE	MG/L													0.0050		UNV
LEAD	MG/L										0.0310		NV			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L													1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	295.0000	2.7	-	295.0000		NV							392.0000		NV
URANIUM, TOTAL	UG/L	484.0000	3.9	-	884.0000		NV							1230.0000		NV
URANIUM-234	PCI/L	264.0000	8.8	J	287.0000		NV							401.0000		NV
THORIUM-230	PCI/L	0.6000	.3	J	2.7100		NV							0.6690		NV

SAMPLE NUMBER:		120337			EMGW_SYSGEN_283			EMGW_SYSGEN_284			EMGW_SYSGEN_285			EMGW_SYSGEN_286		
LAB:		CORE			IT									IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L	1.2000	.4	J	1.2200		NV							1.0000		UNV
URANIUM-235/236	PCI/L	17.0000	5.5	-	18.0000		NV							16.6000		NV
THORIUM-232	PCI/L	0.2000	1	U	0.8450		NV							4.4000		NV
THORIUM, TOTAL	UG/L	1.8240	.4	NV	7.6300		NV							39.7000		NV
RADIUM-228	PCI/L	3.0000	1.2	UJ	3.0000		UNV							3.0000		UNV
THORIUM-228	PCI/L	0.2000	.9	UJ	0.8900		NV							0.6400		UNV
TECHNETIUM-99	PCI/L	43.1000	9.3	-												
GROSS ALPHA	PCI/L	196.0000	9.8	NV	224.0000		NV							320.0000		NV
GROSS BETA	PCI/L	340.0000	1.1	NV	185.0000		NV							380.0000		NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV				10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
2-BUTANONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
2-HEXANONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
ACETONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
BENZENE	UG/L				1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
BROMOFORM	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
BROMOMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CARBON DISULFIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CARBON TETRACHLORIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROBENZENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROETHANE	UG/L							1.0000		UNV				1.0000		UNV
CHLOROFORM	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
ETHYLBENZENE	UG/L				1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
STYRENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
TETRACHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
TOLUENE	UG/L				1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV

SAMPLE NUMBER:	120337	EMGW_SYSGEN_283	EMGW_SYSGEN_284	EMGW_SYSGEN_285	EMGW_SYSGEN_286
LAB:		NET	NET	NET	NET
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
TRICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
VINYL ACETATE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
VINYL CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
XYLENES, TOTAL	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_287	30924U11129-01	30924U11129-02	30924U11129-03	003532
TASK:	GWMON	50.03.24	50.03.24	50.03.24	3.2.4
LAB:	NET	FERMCO	FERMCO	DATACHEM	IT
WELL OR BORING NUMBER:	1112	11129	11129	11129	1113
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-MAR-91	24-SEP-93	24-SEP-93	24-SEP-93	25-JAN-89
NORTH COORDINATE:	479991.52	478223.14	478223.14	478223.14	479992.7
EAST COORDINATE:	1381663.15	1378790.47	1378790.47	1378790.47	1381403.26
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	277.0000		NV												
AMMONIA	MG/L	0.0800		NV												
CHLORIDE	MG/L	269.0000		NV												
FLUORIDE	MG/L	0.6800		NV												
NITRATE, AS NITROGEN	MG/L	2.2800		NV												
PH	STD	7.1100		NV												
PHENOLS	MG/L	0.0050		UNV												
PHOSPHORUS	MG/L	1.0200		NV												
SPECIFIC CONDUCTIVITY	UMHOS/CM	902.0000		NV												
SULFATE	MG/L	223.0000		NV												
TOTAL DISSOLVED SOLIDS	MG/L	610.0000		NV												
TOTAL ORGANIC CARBON	MG/L	15.0000		NV												
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV												
INORGANICS																
ALUMINUM	MG/L	5.2400		NV												
ANTIMONY	MG/L	0.0250		UNV												
ARSENIC	MG/L	0.0040		NV												
BARIUM	MG/L	0.2190		NV												
BERYLLIUM	MG/L	0.0100		UNV												
CADMIUM	MG/L	0.0010		UNV												
CALCIUM	MG/L	155.0000		NV							79.5000		-			
CHROMIUM	MG/L	0.0150		NV												
COBALT	MG/L	0.0250		UNV												
COPPER	MG/L	0.0250		UNV												
CYANIDE	MG/L	0.0050		UNV												
IRON	MG/L	16.6000		NV												
LEAD	MG/L	0.0080		NV												
MAGNESIUM	MG/L	74.0000		NV							19.1000		-			

001250

5704

SAMPLE NUMBER:		EMGW_SYSGEN_287		30924U11129-01		30924U11129-02		30924U11129-03		003532	
LAB:		NET						DATACHEM			
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		NONE-UNF		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MANGANESE	MG/L	0.4500	NV								
MERCURY	MG/L	0.0002	UNV								
MOLYBDENUM	MG/L	0.0250	UNV								
NICKEL	MG/L	0.0140	NV								
POTASSIUM	MG/L	6.0000	NV					5.9000	-		
SELENIUM	MG/L	0.0025	UNV								
SILVER	MG/L	0.0010	UNV								
SODIUM	MG/L	249.0000	NV					29.2000	-		
THALLIUM	MG/L	0.0100	UNV								
VANADIUM	MG/L	0.0500	UNV								
ZINC	MG/L	0.0550	NV								
MISC											
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000	UNV								
RADIONUCLIDES											
URANIUM-238	PCI/L	287.0000	NV								
URANIUM, TOTAL	UG/L	658.0000	NV			15.0000	NV				
URANIUM-234	PCI/L	278.0000	NV								
THORIUM-230	PCI/L	0.9770	NV								
RADIUM-226	PCI/L	1.0000	UNV								
URANIUM-235/236	PCI/L	13.8000	NV								
THORIUM-232	PCI/L	0.8190	NV								
THORIUM, TOTAL	UG/L	7.3900	NV								
RADIUM-228	PCI/L	3.0000	UNV								
THORIUM-228	PCI/L	2.1300	NV								
NEPTUNIUM-237	PCI/L	0.5000	UNV								
PLUTONIUM-239/240	PCI/L	0.5000	UNV								
PLUTONIUM-238	PCI/L	0.5000	UNV								
STRONTIUM-90	PCI/L									5.0000	U
TECHNETIUM-99	PCI/L	43.3000	NV								
RUTHENIUM-106	PCI/L	150.0000	UNV								
CESIUM-137	PCI/L	11.0000	UNV								
GROSS ALPHA	PCI/L	695.0000	NV	120.0000	UNV						
GROSS BETA	PCI/L	431.0000	NV	190.0000	UNV						
SEMIVOLATILES											
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000	UNV								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	1.0000	UNV								

SAMPLE NUMBER:		EMGW_SYSGEN_287		30924U11129-01			30924U11129-02			30924U11129-03			003532		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHENE	UG/L	1.0000		UNV												
1,2-DICHLOROETHANE	UG/L	1.0000		UNV												
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV												
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV												
2-BUTANONE	UG/L	2.0000		UNV												
2-HEXANONE	UG/L	2.0000		UNV												
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV												
ACETONE	UG/L	2.0000		UNV												
BENZENE	UG/L	1.0000		UNV												
BROMODICHLOROMETHANE	UG/L	1.0000		UNV												
BROMOFORM	UG/L	1.0000		UNV												
BROMOMETHANE	UG/L	1.0000		UNV												
CARBON DISULFIDE	UG/L	1.0000		UNV												
CARBON TETRACHLORIDE	UG/L	1.0000		UNV												
CHLOROBENZENE	UG/L	1.0000		UNV												
CHLOROETHANE	UG/L	1.0000		UNV												
CHLOROFORM	UG/L	1.0000		UNV												
CHLOROMETHANE	UG/L	1.0000		UNV												
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV												
ETHYLBENZENE	UG/L	1.0000		UNV												
METHYLENE CHLORIDE	UG/L	1.0000		UNV												
STYRENE	UG/L	1.0000		UNV												
TETRACHLOROETHENE	UG/L	1.0000		UNV												
TOLUENE	UG/L	1.0000		UNV												
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
TRICHLOROETHENE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	2.0000		UNV												
VINYL CHLORIDE	UG/L	1.0000		UNV												
XYLENES, TOTAL	UG/L	1.0000		UNV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045167	045168	045619	045620	120205
TASK:	3.7	3.7	3.7	3.7	50.03.23
LAB:	WMCO	IT	IT	IT	DATACHEM
WELL OR BORING NUMBER:	1113	1113	1113	1113	1113
DEPTH:	-	-	-	-	-
DATE COLLECTED:	10-AUG-89	18-OCT-89	18-OCT-89	31-JAN-90	09-JUN-93
NORTH COORDINATE:	479992.7	479992.7	479992.7	479992.7	479992.7
EAST COORDINATE:	1381403.26	1381403.26	1381403.26	1381403.26	1381403.26
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													360.0000		-
AMMONIA	MG/L													0.0500		U
CHLORIDE	MG/L													69.0000		-
FLUORIDE	MG/L													0.4000		-
NITRATE	MG/L				0.1000		U				0.1000		U			
NITRATE/NITRITE	MG/L													0.0500		U
PHENOLS	MG/L													0.0020		U
PHOSPHORUS	MG/L													0.3800		-
SULFATE	MG/L													63.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL ORGANIC CARBON	MG/L													1.0000		-
TOTAL ORGANIC HALIDES	MG/L													0.0300		-
INORGANICS																
ALUMINUM	MG/L													20.1000		-
ANTIMONY	MG/L													0.0157		U
ARSENIC	MG/L													0.0028		-
BARIUM	MG/L													0.2670		-
BERYLLIUM	MG/L													0.0018		U
CADMIUM	MG/L													0.0012		U
CALCIUM	MG/L													183.0000		-
CHROMIUM	MG/L													0.0334		U
COBALT	MG/L													0.0167		U
COPPER	MG/L													0.0379		-
CYANIDE	MG/L													0.0100		U
IRON	MG/L													35.8000		-
LEAD	MG/L													0.0116		-
MAGNESIUM	MG/L													61.5000		-
MANGANESE	MG/L													1.5500		-

SAMPLE NUMBER:		045167			045168			045619			045620			120205		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.0427		U
POTASSIUM	MG/L													6.2900		-
SELENIUM	MG/L													0.0020		UJ
SILVER	MG/L													0.0038		UJ
SODIUM	MG/L													71.1000		-
THALLIUM	MG/L													0.0010		U
VANADIUM	MG/L													0.0370		-
ZINC	MG/L													0.1070		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	2070.0000		NV				1422.0000	212	-						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		U
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		U
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		UJ
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		UJ
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		U

001254

5704

SAMPLE NUMBER:		045167			045168			045619			045620			120205		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120329	120329F	120331	120331F	120332
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	CORE	CORE	FERMCO	FERMCO	DATACHEM
WELL OR BORING NUMBER:	1113	1113	1113	1113	1113
DEPTH:	-	-	-	-	-
DATE COLLECTED:	10-JUN-93	10-JUN-93	10-JUN-93	10-JUN-93	10-JUN-93
NORTH COORDINATE:	479992.7	479992.7	479992.7	479992.7	479992.7
EAST COORDINATE:	1381403.26	1381403.26	1381403.26	1381403.26	1381403.26
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-FIL

		120329 RESULT	SIGMA	VAL QUAL(1)	120329F RESULT	SIGMA	VAL QUAL(1)	120331 RESULT	SIGMA	VAL QUAL(1)	120331F RESULT	SIGMA	VAL QUAL(1)	120332 RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L													0.0823		-
ANTIMONY	MG/L													0.0157		U
ARSENIC	MG/L													0.0010		U
BARIUM	MG/L													0.1010		-
BERYLLIUM	MG/L													0.0006		U
CADMIUM	MG/L													0.0012		U
CALCIUM	MG/L													101.0000		-
CHROMIUM	MG/L													0.0042		U
COBALT	MG/L													0.0042		U
COPPER	MG/L													0.0024		U
CYANIDE	MG/L													0.0100		U
IRON	MG/L													0.0093		U
LEAD	MG/L													0.0010		U
MAGNESIUM	MG/L													29.2000		-
MANGANESE	MG/L													0.1080		-
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.0070		U
POTASSIUM	MG/L													0.9550		-
SELENIUM	MG/L													0.0020		UJ
SILVER	MG/L													0.0029		UJ
SODIUM	MG/L													69.0000		-
THALLIUM	MG/L													0.0010		U
VANADIUM	MG/L													0.0029		U
ZINC	MG/L													0.0120		U
RADIONUCLIDES																
URANIUM-238	PCI/L	538.00	82.3	J	575.0000	97.1	J									
URANIUM, TOTAL	UG/L	1800.00	86	-	1860.0000	130	-	1900.0000		NV	2300.0000		NV			
URANIUM-234	PCI/L	545.00	83	J	513.0000	87.8	J									

SAMPLE NUMBER:		120329			120329F			120331			120331F			120332		
LAB:		CORE			CORE											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L	0.4000	.2	J	0.3000	.2	UJ									
RADIUM-226	PCI/L	1.0000	.4	U	1.0000	.2	U									
URANIUM-235/236	PCI/L	14.6000	4.9	J	19.2000	8.8	J									
THORIUM-232	PCI/L	0.2000	.3	UJ	0.2000	.3	UJ									
THORIUM, TOTAL	UG/L	1.8241	.3	NV												
RADIUM-228	PCI/L	3.0000	1.4	U	3.0000	1.3	U									
THORIUM-228	PCI/L	0.3000	.3	J	0.2000	.4	UJ									
TECHNETIUM-99	PCI/L	64.5000	10.5	J	76.9000	11.8	J									
GROSS ALPHA	PCI/L	620.0000	82.5	NV	744.0000	22.3	NV									
GROSS BETA	PCI/L	550.0000	2.1	NV	536.0000	10.9	NV									

001257

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_288			EMGW_SYSGEN_289			EMGW_SYSGEN_290			EMGW_SYSGEN_291			EMGW_SYSGEN_292		
TASK:		GWMON			GWMON			GWMON			GWMON			GWMON		
LAB:		NET			NET			NET			NET			NET		
WELL OR BORING NUMBER:		1113			1113			1113			1113			1113		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		12-MAR-90			25-JUN-90			18-SEP-90			25-OCT-90			13-DEC-90		
NORTH COORDINATE:		479992.7			479992.7			479992.7			479992.7			479992.7		
EAST COORDINATE:		1381403.26			1381403.26			1381403.26			1381403.26			1381403.26		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							291.0000		NV				320.0000		NV
AMMONIA	MG/L													0.0400		NV
CHLORIDE	MG/L				84.0000		NV	82.0000		NV				72.0000		NV
FLUORIDE	MG/L							1.1900		NV				0.4200		NV
NITRATE, AS NITROGEN	MG/L				0.1000		NV	0.0700		NV						
NITRATE/NITRITE	MG/L													0.8900		NV
PH	STD							6.9500		NV				6.4100		NV
PHENOLS	MG/L							0.0050		UNV				0.0050		UNV
PHOSPHORUS	MG/L													0.2500		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM							960.0000		NV				1030.0000		NV
SULFATE	MG/L				73.0000		NV	64.0000		NV				69.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L							645.0000		NV				624.0000		NV
TOTAL ORGANIC CARBON	MG/L				2.0000		NV	10.0000		NV				1.0000		UNV
TOTAL ORGANIC HALOGENS	MG/L				0.0200		NV	0.0440		NV				0.0160		NV
INORGANICS																
CYANIDE	MG/L													0.0050		UNV
LEAD	MG/L	0.0050		UNV							0.0110		NV			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L													1.0000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	420.0000		NV	547.0000		NV							551.0000		NV
URANIUM, TOTAL	UG/L	1250.0000		NV	1660.0000		NV							1700.0000		NV
URANIUM-234	PCI/L	390.0000		NV	543.0000		NV							0.2000		UNV
THORIUM-230	PCI/L				0.7930		NV							0.2150		NV

001258

5204

SAMPLE NUMBER:		EMGW_SYSGEN_288			EMGW_SYSGEN_289			EMGW_SYSGEN_290			EMGW_SYSGEN_291			EMGW_SYSGEN_292		
LAB:					IT									IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L				1.4100		NV							1.0000		UNV
URANIUM-235/236	PCI/L				80.1000		NV							30.6000		NV
THORIUM-232	PCI/L				4.0200		NV							0.2100		UNV
THORIUM, TOTAL	UG/L				36.3000		NV							1.9000		UNV
RADIUM-228	PCI/L				3.0000		UNV							3.0000		UNV
THORIUM-228	PCI/L				0.7100		UNV							0.2000		UNV
GROSS ALPHA	PCI/L				787.0000		NV							1130.0000		NV
GROSS BETA	PCI/L				633.0000		NV							850.0000		NV
URANIUM-235	PCI/L	19.0000		NV												
URANIUM-236	PCI/L	2.4000		NV												
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV				10.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
2-BUTANONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
2-HEXANONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
ACETONE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
BROMOFORM	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
BROMOMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CARBON DISULFIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CARBON TETRACHLORIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROBENZENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROETHANE	UG/L							1.0000		UNV				1.0000		UNV
CHLOROFORM	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
ETHYLBENZENE	UG/L				1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
STYRENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
TETRACHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_288			EMGW_SYSGEN_289			EMGW_SYSGEN_290			EMGW_SYSGEN_291			EMGW_SYSGEN_292		
LAB:					NET			NET						NET		
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
TRICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
VINYL ACETATE	UG/L				2.0000		UNV	2.0000		UNV				2.0000		UNV
VINYL CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV				1.0000		UNV
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_293	30930U11130-01	30930U11130-02	30930U11130-03	30924U11131-01
TASK:	GWMON	50.03.24	50.03.24	50.03.24	50.03.24
LAB:	NET	IT	FERMCO	FERMCO	FERMCO
WELL OR BORING NUMBER:	1113	11130	11130	11130	11131
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-MAR-91	30-SEP-93	30-SEP-93	30-SEP-93	24-SEP-93
NORTH COORDINATE:	479992.7	478511.04	478511.04	478511.04	478508.32
EAST COORDINATE:	1381403.26	1382733.42	1382733.42	1382733.42	1382755.64
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	350.0000		NV												
AMMONIA	MG/L	0.0400		NV												
CHLORIDE	MG/L	69.0000		NV												
FLUORIDE	MG/L	0.5000		NV												
NITRATE, AS NITROGEN	MG/L	0.5800		NV												
PH	STD	7.1600		NV												
PHENOLS	MG/L	0.0050		UNV												
PHOSPHORUS	MG/L	0.5900		NV												
SPECIFIC CONDUCTIVITY	UMHOS/CM	934.0000		NV												
SULFATE	MG/L	72.0000		NV												
TOTAL DISSOLVED SOLIDS	MG/L	574.0000		NV												
TOTAL ORGANIC CARBON	MG/L	11.0000		NV												
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV												
INORGANICS																
ALUMINUM	MG/L	5.9200		NV												
ANTIMONY	MG/L	0.0250		UNV												
ARSENIC	MG/L	0.0060		NV												
BARIUM	MG/L	0.2000		UNV												
BERYLLIUM	MG/L	0.0100		UNV												
CADMIUM	MG/L	0.0010		UNV												
CALCIUM	MG/L	119.0000		NV	99.3000		-									
CHROMIUM	MG/L	0.0070		NV												
COBALT	MG/L	0.0250		UNV												
COPPER	MG/L	0.0250		UNV												
CYANIDE	MG/L	0.0050		UNV												
IRON	MG/L	13.7000		NV												
LEAD	MG/L	0.0060		NV												
MAGNESIUM	MG/L	54.0000		NV	40.0000		-									

SAMPLE NUMBER:		EMGW_SYSGEN_293		30930U11130-01		30930U11130-02			30930U11130-03			30924U11131-01		
LAB:		NET		IT										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	0.4140		NV												
MERCURY	MG/L	0.0002		UNV												
MOLYBDENUM	MG/L	0.0250		UNV												
NICKEL	MG/L	0.0050		UNV												
POTASSIUM	MG/L	3.0500		NV	3.8200		-									
SELENIUM	MG/L	0.0025		UNV												
SILVER	MG/L	0.0010		UNV												
SODIUM	MG/L	69.7000		NV	16.3000		-									
THALLIUM	MG/L	0.0100		UNV												
VANADIUM	MG/L	0.0500		UNV												
ZINC	MG/L	0.0470		NV												
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L	591.0000		NV							7.9000		NV			
URANIUM, TOTAL	UG/L	1460.0000		NV												
URANIUM-234	PCI/L	564.0000		NV												
THORIUM-230	PCI/L	0.2420		NV												
RADIUM-226	PCI/L	1.0000		UNV												
URANIUM-235/236	PCI/L	46.1000		NV												
THORIUM-232	PCI/L	0.2000		UNV												
THORIUM, TOTAL	UG/L	1.4000		UNV												
RADIUM-228	PCI/L	3.0000		UNV												
THORIUM-228	PCI/L	1.2700		NV												
NEPTUNIUM-237	PCI/L	0.5000		UNV												
PLUTONIUM-239/240	PCI/L	0.5000		UNV												
PLUTONIUM-238	PCI/L	0.5000		UNV												
TECHNETIUM-99	PCI/L	25.0000		UNV												
RUTHENIUM-106	PCI/L	150.0000		UNV												
CESIUM-137	PCI/L	5.8000		UNV												
GROSS ALPHA	PCI/L	1340.0000		NV				140.0000		UNV				120.0000		UNV
GROSS BETA	PCI/L	679.0000		NV				260.0000		UNV				190.0000		UNV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												

001262

5704

SAMPLE NUMBER:		EMGW_SYSGEN_293		30930U11130-01			30930U11130-02			30930U11130-03			30924U11131-01		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHANE	UG/L	1.0000		UNV												
1,1-DICHLOROETHENE	UG/L	1.0000		UNV												
1,2-DICHLOROETHANE	UG/L	1.0000		UNV												
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000		UNV												
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV												
2-BUTANONE	UG/L	2.0000		UNV												
2-HEXANONE	UG/L	2.0000		UNV												
4-METHYL-2-PENTANONE	UG/L	2.0000		UNV												
ACETONE	UG/L	2.0000		UNV												
BENZENE	UG/L	1.0000		UNV												
BROMODICHLOROMETHANE	UG/L	1.0000		UNV												
BROMOFORM	UG/L	1.0000		UNV												
BROMOMETHANE	UG/L	1.0000		UNV												
CARBON DISULFIDE	UG/L	1.0000		UNV												
CARBON TETRACHLORIDE	UG/L	1.0000		UNV												
CHLOROBENZENE	UG/L	1.0000		UNV												
CHLOROETHANE	UG/L	1.0000		UNV												
CHLOROFORM	UG/L	1.0000		UNV												
CHLOROMETHANE	UG/L	1.0000		UNV												
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV												
ETHYLBENZENE	UG/L	1.0000		UNV												
METHYLENE CHLORIDE	UG/L	1.0000		UNV												
STYRENE	UG/L	1.0000		UNV												
TETRACHLOROETHENE	UG/L	1.0000		UNV												
TOLUENE	UG/L	1.0000		UNV												
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV												
TRICHLOROETHENE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	2.0000		UNV												
VINYL CHLORIDE	UG/L	1.0000		UNV												
XYLENES, TOTAL	UG/L	1.0000		UNV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		30924U11131-02			30924U11131-03			30929-11132-01			30929U11132-01			30928-11133-01		
TASK:		50.03.24			50.03.24			50.03.24			50.03.24			50.03.24		
LAB:		FERMCO			DATACHEM			DATACHEM			DATACHEM			FERMCO		
WELL OR BORING NUMBER:		11131			11131			11132			11132			11133		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		24-SEP-93			24-SEP-93			29-SEP-93			29-SEP-93			28-SEP-93		
NORTH COORDINATE:		478508.32			478508.32			482206.62			482206.62			482207.87		
EAST COORDINATE:		1382755.64			1382755.64			1381840.99			1381840.99			1381825.52		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							190.0000		-				250.0000		-
BICARBONATE ALKALINITY	MG/L							240.0000		-				310.0000		-
CARBONATE ALKALINITY	MG/L							1.0000		U				1.0000		U
CHLORIDE	MG/L							25.0000		-				39.0000		-
SULFATE	MG/L							62.0000		-				67.0000		-
INORGANICS																
CALCIUM	MG/L				59.8000		-				59.5000		-			
MAGNESIUM	MG/L				23.2000		-				23.9000		-			
POTASSIUM	MG/L				2.8600		-				2.2800		-			
SODIUM	MG/L				29.0000		-				19.5000		-			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	11.0000		NV												

001264

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30928U11133-01	30928U11133-03	045169	045170	045623
TASK:	50.03.24	50.03.24	3.7	3.7	3.7
LAB:	FERMCO	FERMCO	WMCO	IT	IT
WELL OR BORING NUMBER:	11133	11133	1117	1117	1117
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-SEP-93	28-SEP-93	10-AUG-89	06-OCT-89	06-OCT-89
NORTH COORDINATE:	482207.87	482207.87	480703.47	480703.47	480703.47
EAST COORDINATE:	1381825.52	1381825.52	1381662.46	1381662.46	1381662.46
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.2560		-			
INORGANICS																
CALCIUM	MG/L	87.4000		-												
MAGNESIUM	MG/L	24.2000		-												
POTASSIUM	MG/L	4.2700		-												
SODIUM	MG/L	27.7000		-												
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				52.0000		NV	13.8000		NV				27.3000	4.2	-

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045624	EMGW_SYSGEN_294	EMGW_SYSGEN_295	120608	120609
TASK:	3.7	GWMON	GWMON	50.03.22	50.03.22
LAB:	IT	NET	NET	DATACHEM	CORE
WELL OR BORING NUMBER:	1117	1117	1117	11214	11214
DEPTH:	-	-	-	-	-
DATE COLLECTED:	31-JAN-90	21-JUN-90	18-SEP-90	30-AUG-93	30-AUG-93
NORTH COORDINATE:	480703.47	480703.47	480703.47	481495.52	481495.52
EAST COORDINATE:	1381662.46	1381662.46	1381662.46	1379217.52	1379217.52
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							279.0000		NV	550.0000		-			
AMMONIA	MG/L										0.0600		-			
CHLORIDE	MG/L				417.0000		NV	457.0000		NV	29.0000		-			
FLUORIDE	MG/L							1.6700		NV	0.3000		-			
NITRATE	MG/L	0.2200		-												
NITRATE, AS NITROGEN	MG/L				0.1600		NV	0.2300		NV						
NITRATE/NITRITE	MG/L										0.0500		UJ			
PH	STD							9.9400		NV						
PHENOLS	MG/L							0.0050		UNV	0.0020		U			
PHOSPHORUS	MG/L										0.7700		-			
SPECIFIC CONDUCTIVITY	UMHOS/CM							2910.0000		NV						
SULFATE	MG/L				725.0000		NV	751.0000		NV	210.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL DISSOLVED SOLIDS	MG/L							2540.0000		NV						
TOTAL KJELDAHL NITROGEN	MG/L										0.1000		-			
TOTAL ORGANIC CARBON	MG/L				2.0000		NV	3.0000		NV	2.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0100		J			
TOTAL ORGANIC HALOGENS	MG/L				0.0550		NV	0.0300		NV						
TOTAL ORGANIC NITROGEN	MG/L										0.0400		-			
INORGANICS																
ALUMINUM	MG/L										0.0527		U			
ANTIMONY	MG/L										0.0450		UJ			
ARSENIC	MG/L										0.0110		-			
BARIUM	MG/L										0.3060		J			
BERYLLIUM	MG/L										0.0010		U			
CADMIUM	MG/L										0.0030		U			
CALCIUM	MG/L										186.0000		-			
CHROMIUM	MG/L										0.0362		-			

001266

504

SAMPLE NUMBER:	045624	EMGW_SYSGEN_294	EMGW_SYSGEN_295	120608	120609
LAB:				DATACHEM	
SUFFIX/FILTERFLAG:	-	-	-	RE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										25.0000		U			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV						
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		UJ			
2-NITROANILINE	UG/L										25.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										10.0000		UJ			
3-NITROANILINE	UG/L										25.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										25.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		UJ			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		UJ			
4-NITROANILINE	UG/L										25.0000		U			
4-NITROPHENOL	UG/L										25.0000		UJ			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		UJ			
BENZO(B)FLUORANTHENE	UG/L										10.0000		UJ			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		UJ			
BENZO(K)FLUORANTHENE	UG/L										10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		UJ			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		U			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CARBAZOLE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		UJ			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		U			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		U			
HEXACHLOROBUTADIENE	UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		U			

SAMPLE NUMBER:		045624			EMGW_SYSGEN_294			EMGW_SYSGEN_295			120608 DATACHEM RE-UNF			120609		
LAB:		-			-			-						-		
SUFFIX/FILTERFLAG:																
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
HEXACHLOROETHANE	UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L										10.0000		UJ			
ISOPHORONE	UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										10.0000		U			
NAPHTHALENE	UG/L										10.0000		U			
NITROBENZENE	UG/L										10.0000		U			
P-CHLOROANILINE	UG/L										10.0000		UJ			
PENTACHLOROPHENOL	UG/L										25.0000		U			
PHENANTHRENE	UG/L										10.0000		U			
PHENOL	MG/L										10.0000		U			
PYRENE	UG/L										10.0000		U			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
2-BUTANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		U			
2-HEXANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UR			
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		U			
ACETONE	UG/L				2.0000		UNV	2.0000		UNV	10.0000		UJ			
BENZENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
BROMODICHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOFORM	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
BROMOMETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON DISULFIDE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
CARBON TETRACHLORIDE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROBENZENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROETHANE	UG/L							1.0000		UNV	10.0000		U			
CHLOROFORM	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
CHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
ETHYLBENZENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
METHYLENE CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
STYRENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
TETRACHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
TOLUENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			

SAMPLE NUMBER:	045624	EMGW_SYSGEN_294	EMGW_SYSGEN_295	120608	120609
LAB:		NET	NET	DATACHEM	
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
VINYL ACETATE	UG/L				2.0000		UNV	2.0000		UNV						
VINYL CHLORIDE	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			
XYLENES, TOTAL	UG/L				1.0000		UNV	1.0000		UNV	10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120609F				120610			120610F			30926-11214-02			30926-11214-05		
TASK:	50.03.22				50.03.22			50.03.22			50.03.24			50.03.24		
LAB:	CORE				FERMCO			FERMCO			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:	11214				11214			11214			11214			11214		
DEPTH:	-				-			-			-			-		
DATE COLLECTED:	30-AUG-93				30-AUG-93			30-AUG-93			26-SEP-93			26-SEP-93		
NORTH COORDINATE:	481495.52				481495.52			481495.52			481495.52			481495.52		
EAST COORDINATE:	1379217.52				1379217.52			1379217.52			1379217.52			1379217.52		
QA TYPE:	NORMAL				NORMAL			NORMAL			NORMAL			DUPLICATE		
QC OF:														30926-11214-02		
SUFFIX/FILTERFLAG:	NONE-FIL				NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										450.0000		-	450.0000		U
BICARBONATE	MG/L										560.0000		-	560.0000		-
CARBONATE ALKALINITY	MG/L										1.0000		U	1.0000		U
CHLORIDE	MG/L										31.0000		-	32.0000		-
FLUORIDE	MG/L										300.0000		U			
NITRATE/NITRITE	MG/L										50.0000		U	50.0000		U
SULFATE	MG/L										200.0000		-	200.0000		-
TOTAL DISSOLVED SOLIDS	MG/L										860.0000		J	860.0000		J
TOTAL SUSPENDED SOLIDS	MG/L										4.0000		UJ	4.0000		UJ
RADIONUCLIDES																
URANIUM-238	PCI/L	0.8000	.3	J												
URANIUM, TOTAL	UG/L	2.6000	.2	-	4.5000		NV	2.5000		NV						
URANIUM-234	PCI/L	0.8000	.5	J												
THORIUM-230	PCI/L	0.5000	.3	J												
RADIUM-226	PCI/L	1.0000	.3	UJ												
URANIUM-235/236	PCI/L	0.2000	.2	UJ												
THORIUM-232	PCI/L	0.2000	.4	UJ												
THORIUM, TOTAL	UG/L	0.9120	.4	NV												
RADIUM-228	PCI/L	3.0000	1.1	U												
THORIUM-228	PCI/L	0.2000	.5	UJ												
PLUTONIUM-239/240	PCI/L	0.3000	.3	R												
PLUTONIUM-238	PCI/L	0.2000	.4	R												
STRONTIUM-90	PCI/L	1.2000	.7	U												
TECHNETIUM-99	PCI/L	15.0000	8.3	U												
CESIUM-137	PCI/L	4.0000	1	U												
GROSS ALPHA	PCI/L	5.2000	3	UNV												
GROSS BETA	PCI/L	7.9000	3.5	NV												

001270

R 0 2 0 2

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

VOLATILES																	
1,1,1-TRICHLOROETHANE 06/20/94	UG/L											10.0000		U	10.0000		U
SAMPLE NUMBER:		120609F			120610			120610F			30926-11214-02 DATACHEM NONE-UNF			30926-11214-05 DATACHEM NONE-UNF		
LAB:																	
SUFFIX/FILTERFLAG:		-			-			-									
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																	
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U	10.0000		U
1,1-DICHLOROETHANE	UG/L										10.0000		U	10.0000		U
1,1-DICHLOROETHENE	UG/L										10.0000		U	10.0000		U
1,2-DICHLOROETHANE	UG/L										10.0000		U	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U	10.0000		U
1,2-DICHLOROPROPANE	UG/L										10.0000		U	10.0000		U
2-BUTANONE	UG/L										10.0000		U	10.0000		U
2-HEXANONE	UG/L										10.0000		U	10.0000		U
4-METHYL-2-PENTANONE	UG/L										10.0000		U	10.0000		U
ACETONE	UG/L										10.0000		UJ	10.0000		UJ
BENZENE	UG/L										10.0000		U	10.0000		U
BROMODICHLOROMETHANE	UG/L										10.0000		U	10.0000		U
BROMOFORM	UG/L										10.0000		U	10.0000		U
BROMOMETHANE	UG/L										10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L										10.0000		U	10.0000		U
CARBON TETRACHLORIDE	UG/L										10.0000		U	10.0000		U
CHLOROBENZENE	UG/L										10.0000		U	10.0000		U
CHLOROETHANE	UG/L										10.0000		U	10.0000		U
CHLOROFORM	UG/L										10.0000		U	10.0000		U
CHLOROMETHANE	UG/L										10.0000		U	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U	10.0000		U
DIBROMOCHLOROMETHANE	UG/L										10.0000		U	10.0000		U
ETHYLBENZENE	UG/L										10.0000		U	10.0000		U
METHYLENE CHLORIDE	UG/L										10.0000		U	10.0000		U
STYRENE	UG/L										10.0000		U	10.0000		U
TETRACHLOROETHENE	UG/L										10.0000		U	10.0000		U
TOLUENE	UG/L										10.0000		U	10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U	10.0000		U
TRICHLOROETHENE	UG/L										10.0000		U	10.0000		U
VINYL CHLORIDE	UG/L										10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L										10.0000		U	10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		30926F11214-02			30926F11214-05			30926U11214-02			30926U11214-05			120613		
TASK:		50.03.24			50.03.24			50.03.24			50.03.24			50.03.22		
LAB:		DATACHEM			DATACHEM			DATACHEM			DATACHEM			CORE		
WELL OR BORING NUMBER:		11214			11214			11214			11214			11216		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		26-SEP-93			26-SEP-93			26-SEP-93			26-SEP-93			01-SEP-93		
NORTH COORDINATE:		481495.52			481495.52			481495.52			481495.52			481756.64		
EAST COORDINATE:		1379217.52			1379217.52			1379217.52			1379217.52			1379409.16		
QA TYPE:		NORMAL			DUPLICATE			NORMAL			NORMAL			NORMAL		
QC OF:					30926-11214-02											
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
BORON	MG/L	0.0556		U	0.0556		U	0.0556		U	0.0556		U			
CALCIUM	MG/L	193.0000		-	194.0000		-	190.0000		-	192.0000		-			
IRON	MG/L	0.1130		U	0.1250		U	0.1410		U	0.1990		U			
MAGNESIUM	MG/L	59.6000		-	59.7000		-	58.9000		-	59.9000		-			
POTASSIUM	MG/L	0.5090		-	0.3790		U	0.4290		-	0.3790		U			
SILICON	MG/L	8.8900		-	8.9100		-	8.7900		-	8.8800		-			
SODIUM	MG/L	10.2000		-	10.2000		-	9.9600		-	10.2000		-			
RADIONUCLIDES																
URANIUM-238	PCI/L													3.2000	1	J
URANIUM, TOTAL	UG/L													7.6000	.5	-
URANIUM-234	PCI/L													2.2000	1	J
THORIUM-230	PCI/L													0.5000	.3	R
RADIUM-226	PCI/L													2.3000	.6	-
URANIUM-235/236	PCI/L													0.2000	.9	UJ
THORIUM-232	PCI/L													0.3000	.2	R
RADIUM-228	PCI/L													3.3000	1.2	-
THORIUM-228	PCI/L													0.2000	.2	R
PLUTONIUM-239/240	PCI/L													1.1000	2.4	R
PLUTONIUM-238	PCI/L													1.0000	2.9	R
STRONTIUM-90	PCI/L													3.3000	1.3	J
TECHNETIUM-99	PCI/L													15.0000	7.5	U
CESIUM-137	PCI/L													4.0000	.8	UJ
GROSS ALPHA	PCI/L													9.3000	4.8	NV
GROSS BETA	PCI/L													14.0000	7	NV

001272

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120613F			120615			120617			30914-11216-01			30914F11216-03		
TASK:	50.03.22			50.03.22			50.03.22			50.03.22			50.03.22		
LAB:	CORE			FERMCO			FERMCO			TCT			CORE		
WELL OR BORING NUMBER:	11216			11216			11216			11216			11216		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	01-SEP-93			01-SEP-93			01-SEP-93			14-SEP-93			14-SEP-93		
NORTH COORDINATE:	481756.64			481756.64			481756.64			481756.64			481756.64		
EAST COORDINATE:	1379409.16			1379409.16			1379409.16			1379409.16			1379409.16		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
ALKALINITY AS CACO3	MG/L										366.0000		-			
AMMONIA	MG/L										0.1340		-			
CHLORIDE	MG/L										5.3200		-			
FLUORIDE	MG/L										0.6300		-			
NITRATE, AS NITROGEN	MG/L										0.1000		U			
PHENOLS	MG/L										0.0050		U			
PHOSPHORUS	MG/L										0.2840		-			
SULFATE	MG/L										127.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL KJELDAHL NITROGEN	MG/L										0.3010		-			
TOTAL ORGANIC CARBON	MG/L										2.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0850		J			
TOTAL ORGANIC NITROGEN	MG/L										0.1670		-			
INORGANICS															
ALUMINUM	MG/L										0.8040		U			
ANTIMONY	MG/L										0.0140		U			
ARSENIC	MG/L										0.0020		UJ			
BARIUM	MG/L										0.1450		-			
BERYLLIUM	MG/L										0.0040		U			
CADMIUM	MG/L										0.0050		U			
CALCIUM	MG/L										131.0000		-			
CHROMIUM	MG/L										0.0060		U			
COBALT	MG/L										0.0070		U			
COPPER	MG/L										0.0080		U			
CYANIDE	MG/L										0.0050		U			
IRON	MG/L										1.0300		J			
LEAD	MG/L										0.0010		U			
MAGNESIUM	MG/L										45.4000		-			

001273

SAMPLE NUMBER:		120613F			120615			120617			30914-11216-01			30914F11216-03		
LAB:											TCT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L										0.4080		-			
MERCURY	MG/L										0.0001		U			
MOLYBDENUM	MG/L										0.0170		U			
NICKEL	MG/L										0.0110		U			
POTASSIUM	MG/L										1.6900		-			
SELENIUM	MG/L										0.0030		-			
SILICON	MG/L										7.2100		-			
SILVER	MG/L										0.0010		UJ			
SODIUM	MG/L										12.0000		-			
THALLIUM	MG/L										0.0010		UJ			
VANADIUM	MG/L										0.0120		UJ			
ZINC	MG/L										0.0060		UJ			
RADIONUCLIDES																
URANIUM-238	PCI/L	2.2000	.5	R										1.1000	.6	R
URANIUM, TOTAL	UG/L	8.3000	.6	-	11.0000		NV							7.2000	.5	-
URANIUM-234	PCI/L	0.5000	.5	R										1.2000	1.1	R
THORIUM-230	PCI/L	0.2000	.2	U										0.2000	.2	UJ
RADIUM-226	PCI/L	1.0000	.3	U										1.0000	.3	U
URANIUM-235/236	PCI/L	0.2000	.5	R										0.2000	.1	R
THORIUM-232	PCI/L	0.2000	.2	UJ										0.2000	.2	UJ
THORIUM, TOTAL	UG/L	0.9120	.2	NV												
RADIUM-228	PCI/L	3.0000	1.1	U										3.0000	1.1	U
THORIUM-228	PCI/L	0.2000	.2	U										0.2000	.2	UJ
PLUTONIUM-239/240	PCI/L	0.6000	.4	R												
PLUTONIUM-238	PCI/L	0.7000	1.3	R												
STRONTIUM-90	PCI/L	1.0000	.4	UJ										1.0000	.5	UJ
TECHNETIUM-99	PCI/L	15.0000	7.9	U										15.0000	6.5	U
CESIUM-137	PCI/L													4.0000	.8	U
GROSS ALPHA	PCI/L	5.8000	2.2	NV				200.0000		UNV				3.5000	1.9	NV
GROSS BETA	PCI/L	4.3000	2.5	NV				400.0000		UNV				5.4000	2.6	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										20.0000		U			
1,2-DICHLOROBENZENE	UG/L										20.0000		U			
1,3-DICHLOROBENZENE	UG/L										20.0000		U			
1,4-DICHLOROBENZENE	UG/L										20.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										20.0000		U			
2,4-DICHLOROPHENOL	UG/L										20.0000		U			
2,4-DIMETHYLPHENOL	UG/L										20.0000		U			
2,4-DINITROPHENOL	UG/L										50.0000		UJ			
2,4-DINITROTOLUENE	UG/L										20.0000		U			

001274

8704

SAMPLE NUMBER:	120613F	120615	120617	30914-11216-01	30914F11216-03
LAB:				TCT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,6-DINITROTOLUENE	UG/L										20.0000		U			
2-CHLORONAPHTHALENE	UG/L										20.0000		U			
2-CHLOROPHENOL	UG/L										20.0000		U			
2-METHYLNAPHTHALENE	UG/L										20.0000		U			
2-METHYLPHENOL	UG/L										20.0000		U			
2-NITROANILINE	UG/L										50.0000		U			
2-NITROPHENOL	UG/L										20.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		U			
3-NITROANILINE	UG/L										50.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L										20.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										20.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										20.0000		U			
4-METHYLPHENOL	UG/L										20.0000		U			
4-NITROANILINE	UG/L										50.0000		U			
4-NITROPHENOL	UG/L										50.0000		U			
ACENAPHTHENE	UG/L										20.0000		U			
ACENAPHTHYLENE	UG/L										20.0000		U			
ANTHRACENE	UG/L										20.0000		U			
BENZO(A)ANTHRACENE	UG/L										20.0000		U			
BENZO(A)PYRENE	UG/L										20.0000		U			
BENZO(B)FLUORANTHENE	UG/L										20.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										20.0000		U			
BENZO(K)FLUORANTHENE	UG/L										20.0000		U			
BENZOIC ACID	UG/L										50.0000		U			
BENZYL ALCOHOL	UG/L										20.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										20.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										20.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										20.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										20.0000		U			
BUTYL BENZYL PHTHALATE	UG/L										20.0000		U			
CARBAZOLE	UG/L										20.0000		U			
CHRYSENE	UG/L										20.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										20.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										20.0000		U			
DIBENZO(A,H)ANTHRACENE	UG/L										20.0000		U			
DIBENZOFURAN	UG/L										20.0000		U			
DIETHYL PHTHALATE	UG/L										20.0000		U			
DIMETHYL PHTHALATE	UG/L										20.0000		U			
FLUORANTHENE	UG/L										20.0000		U			
FLUORENE	UG/L										20.0000		U			
HEXACHLOROBENZENE	UG/L										20.0000		U			
HEXACHLOROBUTADIENE	UG/L										20.0000		U			
HEXACHLOROCYCLOPENTADIENE	UG/L										20.0000		U			
HEXACHLOROETHANE	UG/L										20.0000		U			

SAMPLE NUMBER:	120613F	120615	120617	30914-11216-01	30914F11216-03
LAB:				TCT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
INDENO(1,2,3-CD)PYRENE	UG/L										20.0000		U			
ISOPHORONE	UG/L										20.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										20.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										20.0000		U			
NAPHTHALENE	UG/L										20.0000		U			
NITROBENZENE	UG/L										20.0000		U			
P-CHLOROANILINE	UG/L										20.0000		U			
PENTACHLOROPHENOL	UG/L										50.0000		UJ			
PHENANTHRENE	UG/L										20.0000		U			
PHENOL	MG/L										20.0000		U			
PYRENE	UG/L										20.0000		U			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		UJ			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		UNV			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			

SAMPLE NUMBER:	120613F			120615			120617			30914-11216-01			30914F11216-03		
LAB:										TCT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
VINYL ACETATE UG/L										10.0000		U			
VINYL CHLORIDE UG/L										10.0000		U			
XYLENES, TOTAL UG/L										10.0000		U			

001277

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30914U11216-03	30916-11229-01	30916F11229-01	30916F11229-02	30916U11229-01
TASK:	50.03.22	50.03.22	50.03.22	50.03.22	50.03.22
LAB:	CORE	DATACHEM	DATACHEM	CORE	DATACHEM
WELL OR BORING NUMBER:	11216	11229	11229	11229	11229
DEPTH:	-	-	-	-	-
DATE COLLECTED:	14-SEP-93	16-SEP-93	16-SEP-93	16-SEP-93	16-SEP-93
NORTH COORDINATE:	481756.64	482516.93	482516.93	482516.93	482516.93
EAST COORDINATE:	1379409.16	1380834.44	1380834.44	1380834.44	1380834.44
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L				0.1600		-									
CHLORIDE	MG/L				35.0000		-									
FLUORIDE	MG/L				0.6000		-									
NITRATE/NITRITE	MG/L				0.0600		-									
PHENOLS	MG/L				0.0020		-									
PHOSPHORUS	MG/L				7.0000		J									
SULFATE	MG/L				40.0000		-									
TOTAL KJELDAHL NITROGEN	MG/L				0.6000		-									
TOTAL ORGANIC CARBON	MG/L				20.0000		-									
TOTAL ORGANIC HALIDES	MG/L				0.4500		-									
TOTAL ORGANIC NITROGEN	MG/L				0.4400		-									
INORGANICS																
ALUMINUM	MG/L							0.7080		-				470.0000		J
ANTIMONY	MG/L							0.0222		U				0.1110		UJ
ARSENIC	MG/L							0.0035		-				0.0010		UJ
BARIUM	MG/L							0.1270		-				3.3500		J
BERYLLIUM	MG/L							0.0003		U				0.0231		J
CADMIUM	MG/L							0.0012		U				0.0060		UJ
CALCIUM	MG/L							130.0000		-				4580.0000		J
CHROMIUM	MG/L							0.0032		U				0.8200		J
COBALT	MG/L							0.0053		U				0.4890		J
COPPER	MG/L							0.0026		U				1.0300		J
CYANIDE	MG/L				0.0100		U									
IRON	MG/L							1.3700		-				1110.0000		J
LEAD	MG/L							0.0010		U				0.0010		UJ
MAGNESIUM	MG/L							49.3000		-				1530.0000		J
MANGANESE	MG/L							0.6650		-				24.3000		J
MERCURY	MG/L							0.0002		U				0.0004		J

SAMPLE NUMBER:	30914U11216-03			30916-11229-01		30916F11229-01			30916F11229-02			30916U11229-01		
LAB:						DATACHEM						DATACHEM		
SUFFIX/FILTERFLAG:	-			-		NONE-FIL			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
NICKEL MG/L							0.0256		-				1.4700		J
POTASSIUM MG/L							4.2300		-				48.1000		J
SELENIUM MG/L							0.0012		U				0.0100		UJ
SILVER MG/L							0.0032		U				0.0160		UJ
SODIUM MG/L							16.6000		-				24.1000		J
THALLIUM MG/L							0.0010		U				0.0010		UJ
VANADIUM MG/L							0.0029		-				0.6990		J
ZINC MG/L							0.0041		U				2.9100		J
RADIONUCLIDES															
URANIUM-238 PCI/L	1.3000	.4	J												
URANIUM, TOTAL UG/L	4.9000	.3	-							36.7000	2.6	-			
URANIUM-234 PCI/L	1.2000	.3	J												
THORIUM-230 PCI/L	0.2000	.2	UJ							0.2000	.3	UJ			
RADIUM-226 PCI/L	1.0000	.4	U							1.0000	.4	U			
URANIUM-235/236 PCI/L	0.2000	.5	UJ												
THORIUM-232 PCI/L	0.2000	.2	UJ							0.2000	.2	UJ			
THORIUM, TOTAL UG/L	1.8240	.2	NV												
RADIUM-228 PCI/L	3.0000	.9	U							3.0000	1	U			
THORIUM-228 PCI/L	0.2000	.2	UJ							0.2000	.3	UJ			
PLUTONIUM-239/240 PCI/L	0.1000	1.1	R												
PLUTONIUM-238 PCI/L	0.2000	.7	R												
STRONTIUM-90 PCI/L	1.0000	.5	U							1.0000	.4	UJ			
TECHNETIUM-99 PCI/L	15.0000	8.8	U												
CESIUM-137 PCI/L	4.0000	.9	UJ												
GROSS ALPHA PCI/L	5.7000	3.4	UNV							19.6000	3.5	NV			
GROSS BETA PCI/L	11.5000	4	NV							15.3000	3.1	NV			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L				10.0000		U									
1,2-DICHLOROBENZENE UG/L				10.0000		U									
1,3-DICHLOROBENZENE UG/L				10.0000		U									
1,4-DICHLOROBENZENE UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL UG/L				25.0000		U									
2,4,6-TRICHLOROPHENOL UG/L				10.0000		U									
2,4-DICHLOROPHENOL UG/L				10.0000		U									
2,4-DIMETHYLPHENOL UG/L				10.0000		U									
2,4-DINITROPHENOL UG/L				25.0000		U									
2,4-DINITROTOLUENE UG/L				10.0000		U									
2,6-DINITROTOLUENE UG/L				10.0000		U									
2-CHLORONAPHTHALENE UG/L				10.0000		U									
2-CHLOROPHENOL UG/L				10.0000		U									
2-METHYLNAPHTHALENE UG/L				10.0000		U									

SAMPLE NUMBER:	30914U11216-03	30916-11229-01	30916F11229-01	30916F11229-02	30916U11229-01
LAB:		DATACHEM			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				25.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				10.0000		UJ									
3-NITROANILINE	UG/L				25.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				25.0000		UJ									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				25.0000		UJ									
4-NITROPHENOL	UG/L				25.0000		UJ									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UJ									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				25.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									

SAMPLE NUMBER:		30914U11216-03			30916-11229-01		30916F11229-01			30916F11229-02			30916U11229-01		
LAB:					DATACHEM										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
P-CHLOROANILINE	UG/L				10.0000	UJ									
PENTACHLOROPHENOL	UG/L				25.0000	U									
PHENANTHRENE	UG/L				10.0000	U									
PHENOL	MG/L				10.0000	U									
PYRENE	UG/L				10.0000	U									
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L				82.0000	-									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000	U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000	U									
1,1-DICHLOROETHANE	UG/L				520.0000	-									
1,1-DICHLOROETHENE	UG/L				14.0000	-									
1,2-DICHLOROETHANE	UG/L				10.0000	U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				150.0000	-									
1,2-DICHLOROPROPANE	UG/L				10.0000	U									
2-BUTANONE	UG/L				10.0000	U									
2-HEXANONE	UG/L				10.0000	U									
4-METHYL-2-PENTANONE	UG/L				10.0000	U									
ACETONE	UG/L				10.0000	UJ									
BENZENE	UG/L				10.0000	U									
BROMODICHLOROMETHANE	UG/L				10.0000	U									
BROMOFORM	UG/L				10.0000	U									
BROMOMETHANE	UG/L				10.0000	U									
CARBON DISULFIDE	UG/L				10.0000	U									
CARBON TETRACHLORIDE	UG/L				10.0000	U									
CHLOROBENZENE	UG/L				10.0000	U									
CHLOROETHANE	UG/L				24.0000	-									
CHLOROFORM	UG/L				10.0000	U									
CHLOROMETHANE	UG/L				10.0000	U									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000	U									
DIBROMOCHLOROMETHANE	UG/L				10.0000	U									
ETHYLBENZENE	UG/L				10.0000	U									
METHYLENE CHLORIDE	UG/L				3.0000	J									
STYRENE	UG/L				10.0000	U									
TETRACHLOROETHENE	UG/L				10.0000	U									
TOLUENE	UG/L				10.0000	U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000	U									
TRICHLOROETHENE	UG/L				1.0000	J									
VINYL CHLORIDE	UG/L				10.0000	U									
XYLENES, TOTAL	UG/L				10.0000	U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30916U11229-02	30908-11230-03	30908-11230-04	30908U11230-01	30909F11230-01
TASK:	50.03.22	50.03.22	50.03.22	50.03.22	50.03.22
LAB:	CORE	DATACHEM	FERMCO	CORE	CORE
WELL OR BORING NUMBER:	11229	11230	11230	11230	11230
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-SEP-93	08-SEP-93	08-SEP-93	08-SEP-93	09-SEP-93
NORTH COORDINATE:	482516.93	481837.12	481837.12	481837.12	481837.12
EAST COORDINATE:	1380834.44	1381868.48	1381868.48	1381868.48	1381868.48
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				420.0000		-									
AMMONIA	MG/L				0.1000		-									
CHLORIDE	MG/L				20.0000		-									
FLUORIDE	MG/L				0.6000		-									
NITRATE	MG/L				0.0500		-									
PHENOLS	MG/L				0.0020		U									
PHOSPHORUS	MG/L				3.0000		J									
SULFATE	MG/L				120.0000		-									
SULFIDE	MG/L				1.0000		U									
TOTAL KJELDAHL NITROGEN	MG/L				0.3000		-									
TOTAL ORGANIC CARBON	MG/L				3.0000		-									
TOTAL ORGANIC HALIDES	MG/L				0.0200		-									
INORGANICS																
ALUMINUM	MG/L				13.8000		J									
ANTIMONY	MG/L				0.0450		U									
ARSENIC	MG/L				0.0074		U									
BARIUM	MG/L				0.2040		-									
BERYLLIUM	MG/L				0.0010		U									
CADMIUM	MG/L				0.0030		U									
CALCIUM	MG/L				239.0000		J									
CHROMIUM	MG/L				0.0392		-									
COBALT	MG/L				0.0184		U									
COPPER	MG/L				0.0661		-									
CYANIDE	MG/L				0.0100		U									
IRON	MG/L				35.3000		J									
LEAD	MG/L				0.0236		-									
MAGNESIUM	MG/L				67.0000		J									
MANGANESE	MG/L				0.8970		J									

SAMPLE NUMBER:		30916U11229-02			30908-11230-03			30908-11230-04			30908U11230-01			30909F11230-01		
LAB:					DATACHEM											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L				0.0002		U									
NICKEL	MG/L				0.0498		-									
POTASSIUM	MG/L				4.0000		-									
SELENIUM	MG/L				0.0033		J									
SILVER	MG/L				0.0030		U									
SODIUM	MG/L				8.6900		-									
THALLIUM	MG/L				0.0010		U									
VANADIUM	MG/L				0.0318		-									
ZINC	MG/L				0.1290		-									
RADIONUCLIDES																
URANIUM-238	PCI/L	16.5000	2.3	R							296.0000	39.6	R	127.0000	18	R
URANIUM, TOTAL	UG/L	38.1000	2.7	-				850.0000		NV	937.0000	65.6	-	420.0000	29.4	-
URANIUM-234	PCI/L	17.2000	2.4	R							269.0000	36.5	R	117.0000	16.8	R
THORIUM-230	PCI/L	0.7000	.2	J							1.4000	.4	J	0.7000	.4	R
RADIUM-226	PCI/L	1.0000	.3	U							8.3000	1.1	-	1.0000	.3	U
URANIUM-235/236	PCI/L	0.6000	.9	R							12.5000	8.5	R	4.5000	4.2	R
THORIUM-232	PCI/L	0.2000	.2	UJ							0.3000	.2	J	0.1000	.2	R
THORIUM, TOTAL	UG/L	1.8241	.2	NV							2.7361	.2	NV			
RADIUM-228	PCI/L	3.0000	.9	U							3.5000	1.2	-	3.0000	1	U
THORIUM-228	PCI/L	0.2000	.2	UJ							0.3000	.2	J	0.1000	.2	R
PLUTONIUM-239/240	PCI/L	5.5000	19.2	R							0.5000	1.2	R	0.9000	2.1	R
PLUTONIUM-238	PCI/L	0.2000	14.3	R							0.4000	1.1	R	0.8000	1.9	R
STRONTIUM-90	PCI/L	2.9000	1.5	UJ							1.5000	.9	UJ	1.0000	.5	UJ
TECHNETIUM-99	PCI/L										15.0000	7.7	U	15.0000	8.4	U
CESIUM-137	PCI/L	4.9000	1.5	J							4.0000	.8	UJ	1.6000	.9	R
GROSS ALPHA	PCI/L	39.4000	9.4	NV							96.2000	16.6	NV	192.0000	10.2	NV
GROSS BETA	PCI/L	22.5000	13.4	UNV							47.7000	18.8	NV	82.3000	5.8	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				100.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				100.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				25.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				25.0000		U									
2,4-DINITROTOLUENE	UG/L				100.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				100.0000		U									

SAMPLE NUMBER:		30916U11229-02			30908-11230-03			30908-11230-04			30908U11230-01			30909F11230-01		
LAB:					DATACHEM											
SUFFIX/FILTERFLAG:		-			RE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				25.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				10.0000		U									
3-NITROANILINE	UG/L				25.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				25.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				100.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				25.0000		U									
4-NITROPHENOL	UG/L				250.0000		U									
ACENAPHTHENE	UG/L				100.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				100.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		UJ									
NAPHTHALENE	UG/L				10.0000		U									

SAMPLE NUMBER:		30916U11229-02			30908-11230-03		30908-11230-04			30908U11230-01			30909F11230-01		
LAB:					DATACHEM										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
NITROBENZENE	UG/L				10.0000	U									
P-CHLOROANILINE	UG/L				10.0000	U									
PENTACHLOROPHENOL	UG/L				250.0000	U									
PHENANTHRENE	UG/L				10.0000	U									
PHENOL	MG/L				100.0000	U									
PYRENE	UG/L				100.0000	U									
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L				10.0000	U									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000	U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000	U									
1,1-DICHLOROETHANE	UG/L				10.0000	U									
1,1-DICHLOROETHENE	UG/L				10.0000	U									
1,2-DICHLOROETHANE	UG/L				10.0000	U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000	U									
1,2-DICHLOROPROPANE	UG/L				10.0000	U									
2-BUTANONE	UG/L				10.0000	U									
2-HEXANONE	UG/L				10.0000	U									
4-METHYL-2-PENTANONE	UG/L				10.0000	U									
ACETONE	UG/L				10.0000	UJ									
BENZENE	UG/L				10.0000	U									
BROMODICHLOROMETHANE	UG/L				10.0000	U									
BROMOFORM	UG/L				10.0000	U									
BROMOMETHANE	UG/L				10.0000	U									
CARBON DISULFIDE	UG/L				10.0000	U									
CARBON TETRACHLORIDE	UG/L				10.0000	U									
CHLOROBENZENE	UG/L				10.0000	U									
CHLOROETHANE	UG/L				10.0000	U									
CHLOROFORM	UG/L				10.0000	U									
CHLOROMETHANE	UG/L				10.0000	U									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000	U									
DIBROMOCHLOROMETHANE	UG/L				10.0000	U									
ETHYLBENZENE	UG/L				10.0000	U									
METHYLENE CHLORIDE	UG/L				10.0000	U									
STYRENE	UG/L				10.0000	U									
TETRACHLOROETHENE	UG/L				10.0000	U									
TOLUENE	UG/L				10.0000	U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000	U									
TRICHLOROETHENE	UG/L				10.0000	U									
VINYL CHLORIDE	UG/L				10.0000	U									
XYLENES, TOTAL	UG/L				10.0000	U									

SAMPLE NUMBER:	30909F11230-02			30909F11230-03			30928-11234-01			93.50.03.25-0841			93.50.03.25-0842		
LAB:	DATACHEM														
SUFFIX/FILTERFLAG:	NONE-FIL			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
VANADIUM	MG/L	0.0040		U												
ZINC	MG/L	0.0262		U												
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				380.0000		NV				140.0000		NV	250.0000		NV

SAMPLE NUMBER:		003234			003424			003485			003654			003841		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	2.1000	.4	-	2.3000	.4	J	2.8000	.9	-	2.6000	.5	J	2.4000	.6	-
URANIUM, TOTAL	UG/L	6.0000	1	J	7.0000	1	-	8.0000	1	-	8.0000	1	-	8.0000	1	-
URANIUM-234	PCI/L	2.4000	.5	-	2.7000	.5	J	3.1000	.9	-	3.6000	.7	J	2.5000	.6	-
THORIUM-230	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
RADIUM-226	PCI/L	1.0000		U	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U
URANIUM-235/236	PCI/L	1.0000		U	1.0000		UJ	1.0000		U	1.0000		U	1.0000		U
THORIUM-232	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
THORIUM, TOTAL	UG/L				3.0000		U	5.0000		U	3.0000		U	4.0000		U
RADIUM-228	PCI/L	3.0000		U	3.0000	1.1	U	3.1000		UJ	3.0000		U	3.0000		U
THORIUM-228	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
NEPTUNIUM-237	PCI/L	1.0000		U	1.0000		U	1.0000		UJ	1.0000		U	1.0000		UJ
PLUTONIUM-239/240	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
PLUTONIUM-238	PCI/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
STRONTIUM-90	PCI/L	5.0000		U	5.0000		U	5.0000		U	5.0000		U	5.0000		U
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U	30.0000		U	30.0000		U	30.0000		U
RUTHENIUM-106	PCI/L	150.0000		R	150.0000		R	150.0000		R	150.0000		R	150.0000		R
CESIUM-137	PCI/L	20.0000		R	20.0000		R	20.0000		R	20.0000		R	20.0000		R

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066835	066892	EMGW_SYSGEN_296	EMGW_SYSGEN_297	045140
TASK:	9.27	9.27	GWMON	GWMON	3.7
LAB:	IT	IT	NET	NET	WMCO
WELL OR BORING NUMBER:	1124	1124	1124	1124	1130
DEPTH:	-	-	-	-	-
DATE COLLECTED:	08-JAN-90	08-JAN-90	21-MAY-90	25-OCT-90	05-MAY-89
NORTH COORDINATE:	483033.12	483033.12	483033.12	483033.12	480718.93
EAST COORDINATE:	1382783.19	1382783.19	1382783.19	1382783.19	1380753.33
QA TYPE:	NORMAL	DUPLICATE	NORMAL	NORMAL	NORMAL
QC OF:		066835			
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		066835			066892			EMGW_SYSGEN_296			EMGW_SYSGEN_297			045140		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										317.0000		NV			
AMMONIA	MG/L										0.0200		UNV			
CHLORIDE	MG/L							27.0000		NV	10.0000		NV			
FLUORIDE	MG/L										0.3400		NV			
NITRATE, AS NITROGEN	MG/L							3.0800		NV						
NITRATE/NITRITE	MG/L										4.3000		NV			
PH	STD										7.1700		NV			
PHENOLS	MG/L										0.0050		UNV			
PHOSPHORUS	MG/L										0.1600		NV			
SPECIFIC CONDUCTIVITY	UMHOS/CM										719.0000		NV			
SULFATE	MG/L							156.0000		NV	79.0000		NV			
TOTAL DISSOLVED SOLIDS	MG/L										536.0000		NV			
TOTAL ORGANIC CARBON	MG/L							17.0000		NV	6.0000		NV			
TOTAL ORGANIC HALOGENS	MG/L							0.0100		UNV	0.0100		UNV			
INORGANICS																
CYANIDE	MG/L										0.0050		UNV			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	3.1700	.58	-	3.1200	.53	-	2.9700		NV	1.9800		NV	60.0000		NV
URANIUM, TOTAL	UG/L	13.9000	1.5	J	12.8000	1.4	J	9.0000		NV	4.6700		NV	120.0000		NV
URANIUM-234	PCI/L	3.5200	.62	R	3.5200	.6	R	4.4400		NV	3.2800		NV	56.0000		NV
THORIUM-230	PCI/L	1.0000		U	1.0000		U	0.3200		UNV	0.6170		NV			
RADIUM-226	PCI/L							1.0000		UNV	1.0000		UNV			

SAMPLE NUMBER:		066835			066892			EMGW_SYSGEN_296			EMGW_SYSGEN_297			045140		
LAB:								IT			IT					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L	1.0000		U	1.0000		U	0.2920		NV	0.5480		NV			
THORIUM-232	PCI/L							0.3200		UNV	0.2800		UNV			
THORIUM, TOTAL	UG/L							2.9000		UNV	2.5000		UNV			
RADIUM-228	PCI/L							3.0000		UNV	3.0000		UNV			
THORIUM-228	PCI/L	1.0000		U	1.0000		U	0.3200		UNV	0.9460		NV			
TECHNETIUM-99	PCI/L	30.0000		U	30.0000		U									
GROSS ALPHA	PCI/L							59.2000		NV	6.8000		UNV			
GROSS BETA	PCI/L							24.0000		UNV	6.1700		NV			
URANIUM-235	PCI/L													2.8000		NV
URANIUM-236	PCI/L													0.8000		NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
1,2-DICHLOROETHANE	UG/L							1.0000		UNV	1.0000		UNV			
1,2-DICHLOROETHENE (TOTAL)	UG/L							1.0000		UNV	1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	1.0000		UNV			
2-BUTANONE	UG/L							2.0000		UNV	2.0000		UNV			
2-HEXANONE	UG/L							2.0000		UNV	2.0000		UNV			
4-METHYL-2-PENTANONE	UG/L							2.0000		UNV	2.0000		UNV			
ACETONE	UG/L							2.0000		UNV	2.0000		UNV			
BENZENE	UG/L							1.0000		UNV	1.0000		UNV			
BROMODICHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
BROMOFORM	UG/L							1.0000		UNV	1.0000		UNV			
BROMOMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
CARBON DISULFIDE	UG/L							1.0000		UNV	1.0000		UNV			
CARBON TETRACHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROETHANE	UG/L										1.0000		UNV			
CHLOROFORM	UG/L							1.0000		UNV	1.0000		UNV			
CHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV			
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV	1.0000		UNV			
ETHYLBENZENE	UG/L							1.0000		UNV	1.0000		UNV			
METHYLENE CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
STYRENE	UG/L							1.0000		UNV	1.0000		UNV			
TETRACHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			

SAMPLE NUMBER:	066835	066892	EMGW_SYSGEN_296	EMGW_SYSGEN_297	045140
LAB:			NET	NET	
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TOLUENE	UG/L							1.0000		UNV	1.0000		UNV			
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	1.0000		UNV			
TRICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV			
VINYL ACETATE	UG/L							2.0000		UNV	2.0000		UNV			
VINYL CHLORIDE	UG/L							1.0000		UNV	1.0000		UNV			
XYLENES, TOTAL	UG/L							1.0000		UNV	1.0000		UNV			

001290

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045294	045627	045628	045171	045172
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	1130	1130	1130	1131	1131
DEPTH:	-	-	-	-	-
DATE COLLECTED:	03-AUG-89	29-JUN-90	29-JUN-90	16-JAN-90	29-JUN-90
NORTH COORDINATE:	480718.93	480718.93	480718.93	480724.38	480724.38
EAST COORDINATE:	1380753.33	1380753.33	1380753.33	1381019.82	1381019.82
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							4.2300		-	0.1000		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	64.5000		NV	37.7000	5.6	-				2180.0000	350	-	1280.0000	176	-

001291

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045631	118480	EMGW_SYSGEN_298	045126	045130
TASK:	3.7	50.03.23	GWMON	3.7	3.7
LAB:	IT	FERMCO	NET	WMCO	IT
WELL OR BORING NUMBER:	1131	1131	1131	1133	1133
DEPTH:	-	-	-	-	-
DATE COLLECTED:	29-JUN-90	27-MAY-93	26-OCT-90	14-APR-89	14-APR-89
NORTH COORDINATE:	480724.38	480724.38	480724.38	480689.65	480689.65
EAST COORDINATE:	1381019.82	1381019.82	1381019.82	1381883.56	1381883.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U												
OIL AND GREASE	%													6.4000		J
INORGANICS																
LEAD	MG/L							0.0550		NV						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				640.0000		NV				32.0000		NV			
VOLATILES																
BENZENE	UG/L							0.5000		UNV						
ETHYLBENZENE	UG/L							0.5000		UNV						
TOLUENE	UG/L							0.5000		UNV						
XYLENES, TOTAL	UG/L							1.0000		UNV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045142	045128	045426	045427	045428
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	WMCO	IT	IT	IT
WELL OR BORING NUMBER:	1133	1134	1134	1134	1134
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-MAY-89	10-MAY-89	18-OCT-89	18-OCT-89	31-JAN-90
NORTH COORDINATE:	480689.65	480745.16	480745.16	480745.16	480745.16
EAST COORDINATE:	1381883.56	1379849.31	1379849.31	1379849.31	1379849.31
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				1180.0000		NV				0.1000		U	0.1000		U
NITRITE, AS NITROGEN	MG/L				122.0000		NV									
RADIONUCLIDES																
URANIUM-238	PCI/L	9.3000		NV												
URANIUM, TOTAL	UG/L	18.0000		NV	36.0000		NV	21.0000	3	-						
URANIUM-234	PCI/L	7.0000		NV												
URANIUM-235	PCI/L	0.3700		NV												
URANIUM-236	PCI/L	0.0890		NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045322			045323			045641			045642			062950	
TASK:		3.7			3.7			3.7			3.7			04.23	
LAB:		IT			IT			IT			IT			IT	
WELL OR BORING NUMBER:		1135			1135			1135			1135			1135	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		08-OCT-89			08-OCT-89			31-JUL-90			31-JUL-90			30-JUN-92	
NORTH COORDINATE:		480557.3			480557.3			480557.3			480557.3			480557.3	
EAST COORDINATE:		1380909.27			1380909.27			1380909.27			1380909.27			1380909.27	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		U				0.3200		-			
INORGANICS																
CYANIDE	MG/L													0.0027		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	548.00008		-				326.0000	50	-						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		U
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U

SAMPLE NUMBER:	045322	045323	045641	045642	062950
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CARBAZOLE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		UJ
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													50.0000		U

SAMPLE NUMBER:		045322			045323			045641			045642			062950		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
TRIBUTYL PHOSPHATE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													1.0000		J
1,1,2,2-TETRACHLOROETHANE	UG/L													5.0000		U
1,1,2-TRICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHANE	UG/L													2.0000		J
1,1-DICHLOROETHENE	UG/L													5.0000		U
1,2-DICHLOROETHANE	UG/L													5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													5.0000		U
1,2-DICHLOROPROPANE	UG/L													5.0000		U
2-BUTANONE	UG/L													10.0000		UJ
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L													5.0000		U
BROMODICHLOROMETHANE	UG/L													5.0000		U
BROMOFORM	UG/L													5.0000		U
BROMOMETHANE	UG/L													10.0000		UJ
CARBON DISULFIDE	UG/L													5.0000		U
CARBON TETRACHLORIDE	UG/L													5.0000		U
CHLOROBENZENE	UG/L													5.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													5.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		U
METHYLENE CHLORIDE	UG/L													5.0000		U
STYRENE	UG/L													5.0000		U
TETRACHLOROETHENE	UG/L													5.0000		U
TOLUENE	UG/L													5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
TRICHLOROETHENE	UG/L													5.0000		U
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062951	062966	045314	045315	045644
TASK:	04.23	04.23	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	1135	1135	1136	1136	1136
DEPTH:	-	-	-	-	-
DATE COLLECTED:	15-JUL-92	02-JUL-92	08-OCT-89	08-OCT-89	28-AUG-90
NORTH COORDINATE:	480557.3	480557.3	480479.1	480479.1	480479.1
EAST COORDINATE:	1380909.27	1380909.27	1380906.25	1380906.25	1380906.25
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.1000		U			
INORGANICS																
ALUMINUM	MG/L				0.1240		-									
ANTIMONY	MG/L				0.0300		UJ									
ARSENIC	MG/L				0.0324		J									
BARIUM	MG/L				0.1090		-									
BERYLLIUM	MG/L				0.0020		U									
CADMIUM	MG/L				0.0050		UJ									
CALCIUM	MG/L				8.1300		-									
CHROMIUM	MG/L				0.0100		UJ									
COBALT	MG/L				0.0100		U									
COPPER	MG/L				0.0320		-									
IRON	MG/L				0.1200		-									
LEAD	MG/L				0.0027		J									
MAGNESIUM	MG/L				38.1000		-									
MANGANESE	MG/L				0.0968		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				1.4200		-									
NICKEL	MG/L				0.0936		-									
POTASSIUM	MG/L				12400.0000		-									
SELENIUM	MG/L				0.0020		UJ									
SILICON	MG/L				6.3000		-									
SILVER	MG/L				0.0100		UJ									
SODIUM	MG/L				61.9000		-									
THALLIUM	MG/L				0.0020		UJ									
VANADIUM	MG/L				0.0100		U									
ZINC	MG/L				0.0759		-									

001297

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

PESTICIDES															
4,4'-DDD	UG/L				0.1000		U								
06/20/94															
SAMPLE NUMBER:		062951			062966			045314			045315			045644	
LAB:					IT										
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	UG/L				0.1000		U								
4,4'-DDT	UG/L				0.1000		U								
ALDRIN	UG/L				0.0500		U								
ALPHA-BHC	UG/L				0.0500		U								
ALPHA-CHLORDANE	UG/L				0.5000		U								
AROCLOR-1016	UG/L				0.5000		U								
AROCLOR-1221	UG/L				0.5000		U								
AROCLOR-1232	UG/L				0.5000		U								
AROCLOR-1242	UG/L				0.5000		U								
AROCLOR-1248	UG/L				0.5000		U								
AROCLOR-1254	UG/L				1.0000		U								
AROCLOR-1260	UG/L				1.0000		U								
BETA-BHC	UG/L				0.0500		U								
DELTA-BHC	UG/L				0.0500		U								
DIELDRIN	UG/L				0.1000		U								
ENDOSULFAN II	UG/L				0.1000		U								
ENDOSULFAN SULFATE	UG/L				0.1000		U								
ENDOSULFAN-I	UG/L				0.0500		U								
ENDRIN	UG/L				0.1000		U								
ENDRIN KETONE	UG/L				0.1000		U								
GAMMA-BHC (LINDANE)	UG/L				0.0500		U								
GAMMA-CHLORDANE	UG/L				0.5000		U								
HEPTACHLOR	UG/L				0.0500		U								
HEPTACHLOR EPOXIDE	UG/L				0.0500		U								
METHOXYCHLOR	UG/L				0.5000		U								
TOXAPHENE	UG/L				1.0000		U								
RADIONUCLIDES															
URANIUM, TOTAL	UG/L	630.0000		NV				102.0000	14	-				167.0000	24	-

001298

8704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045645	062952	062953	045125	045135
TASK:	3.7	04.23	04.23	3.7	3.7
LAB:	IT	IT	WEMCO	WMCO	IT
WELL OR BORING NUMBER:	1136	1136	1136	1137	1137
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-AUG-90	26-JUN-92	26-JUN-92	14-APR-89	14-APR-89
NORTH COORDINATE:	480479.1	480479.1	480479.1	480498.14	480498.14
EAST COORDINATE:	1380906.25	1380906.25	1380906.25	1381038.54	1381038.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U												
OIL AND GREASE	%													3.7000		J
INORGANICS																
ALUMINUM	MG/L				0.0300		U									
ANTIMONY	MG/L				0.0300		UJ									
ARSENIC	MG/L				0.0273		J									
BARIUM	MG/L				0.1720		-									
BERYLLIUM	MG/L				0.0020		U									
CADMIUM	MG/L				0.0050		U									
CALCIUM	MG/L				208.0000		-									
CHROMIUM	MG/L				0.0100		UJ									
COBALT	MG/L				0.0100		U									
COPPER	MG/L				0.0100		U									
CYANIDE	MG/L				0.0020		U									
IRON	MG/L				0.0200		U									
LEAD	MG/L				0.0049		J									
MAGNESIUM	MG/L				80.6000		-									
MANGANESE	MG/L				0.4130		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.0200		U									
NICKEL	MG/L				0.0957		-									
POTASSIUM	MG/L				1.6000		-									
SELENIUM	MG/L				0.0020		UJ									
SILICON	MG/L				12.1000		-									
SILVER	MG/L				0.0100		UJ									
SODIUM	MG/L				46.7000		-									
THALLIUM	MG/L				0.0020		U									
VANADIUM	MG/L				0.0100		UJ									

SAMPLE NUMBER:	045645	062952	062953	045125	045135
LAB:		IT			
SUFFIX/FILTERFLAG:	-	F-FIL	-	-	-

		045645 RESULT	SIGMA	VAL QUAL(1)	062952 RESULT	SIGMA	VAL QUAL(1)	062953 RESULT	SIGMA	VAL QUAL(1)	045125 RESULT	SIGMA	VAL QUAL(1)	045135 RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ZINC	MG/L				0.0214		-									
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.5000		U									
AROCLOR-1016	UG/L				0.5000		U									
AROCLOR-1221	UG/L				0.5000		U									
AROCLOR-1232	UG/L				0.5000		U									
AROCLOR-1242	UG/L				0.5000		U									
AROCLOR-1248	UG/L				0.5000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.5000		U									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				1.0000		U									
RADIONUCLIDES																
URANIUM, TOTAL	UG/L							405.0000		NV	20.0000		NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									

SAMPLE NUMBER:	045645	062952	062953	045125	045135
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				50.0000		U									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		U									
3-NITROANILINE	UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				50.0000		U									
4-NITROPHENOL	UG/L				50.0000		UJ									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		U									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									

SAMPLE NUMBER:	045645			062952		062953			045125			045135		
LAB:				IT										
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
HEXACHLOROBUTADIENE UG/L				10.0000	U									
HEXACHLOROCYCLOPENTADIENE UG/L				10.0000	UJ									
HEXACHLOROETHANE UG/L				10.0000	U									
INDENO(1,2,3-CD)PYRENE UG/L				10.0000	U									
ISOPHORONE UG/L				10.0000	U									
N-NITROSO-DI-N-PROPYLAMINE UG/L				10.0000	U									
N-NITROSODIPHENYLAMINE UG/L				10.0000	U									
NAPHTHALENE UG/L				10.0000	U									
NITROBENZENE UG/L				10.0000	U									
P-CHLOROANILINE UG/L				10.0000	U									
PENTACHLOROPHENOL UG/L				50.0000	U									
PHENANTHRENE UG/L				10.0000	U									
PHENOL MG/L				10.0000	U									
PYRENE UG/L				10.0000	U									
TRIBUTYL PHOSPHATE UG/L				10.0000	U									
VOLATILES														
1,1,1-TRICHLOROETHANE UG/L				5.0000	U									
1,1,2,2-TETRACHLOROETHANE UG/L				5.0000	U									
1,1,2-TRICHLOROETHANE UG/L				5.0000	U									
1,1-DICHLOROETHANE UG/L				2.0000	J									
1,1-DICHLOROETHENE UG/L				5.0000	U									
1,2-DICHLOROETHANE UG/L				5.0000	U									
1,2-DICHLOROETHENE (TOTAL) UG/L				5.0000	U									
1,2-DICHLOROPROPANE UG/L				5.0000	U									
2-BUTANONE UG/L				10.0000	U									
2-HEXANONE UG/L				10.0000	U									
4-METHYL-2-PENTANONE UG/L				10.0000	U									
ACETONE UG/L				10.0000	U									
BENZENE UG/L				5.0000	U									
BROMODICHLOROMETHANE UG/L				5.0000	U									
BROMOFORM UG/L				5.0000	U									
BROMOMETHANE UG/L				10.0000	UJ									
CARBON DISULFIDE UG/L				5.0000	U									
CARBON TETRACHLORIDE UG/L				5.0000	U									
CHLOROBENZENE UG/L				5.0000	U									
CHLOROETHANE UG/L				10.0000	U									
CHLOROFORM UG/L				5.0000	U									
CHLOROMETHANE UG/L				10.0000	U									
CIS-1,3-DICHLOROPROPENE UG/L				5.0000	U									
DIBROMOCHLOROMETHANE UG/L				5.0000	U									
ETHYLBENZENE UG/L				5.0000	U									
METHYLENE CHLORIDE UG/L				5.0000	U									
STYRENE UG/L				5.0000	U									

SAMPLE NUMBER:	045645	062952	062953	045125	045135
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TETRACHLOROETHENE	UG/L				5.0000		U									
TOLUENE	UG/L				5.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
TRICHLOROETHENE	UG/L				5.0000		U									
VINYL ACETATE	UG/L				10.0000		UJ									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				5.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045141			045648			045649			045328			045329		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	WMCO			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1137			1137			1137			1145			1145		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	05-MAY-89			16-FEB-90			29-JUN-90			03-OCT-89			03-OCT-89		
NORTH COORDINATE:	480498.14			480498.14			480498.14			480450.66			480450.66		
EAST COORDINATE:	1381038.54			1381038.54			1381038.54			1381683.44			1381683.44		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
NITRATE	MG/L				0.1900		-	0.1000		U				61.5000		-
RADIONUCLIDES															
URANIUM-238	PCI/L	5.3000		NV											
URANIUM, TOTAL	UG/L	11.0000		NV							96200.0000	12000	-		
URANIUM-234	PCI/L	6.0000		NV											
URANIUM-235	PCI/L	0.2400		NV											
URANIUM-236	PCI/L	0.0610		NV											

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045652	045653	066899	120231	120231F
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	1145	1145	1145	1145	1145
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-JAN-90	24-JAN-90	23-JUL-90	17-JUN-93	17-JUN-93
NORTH COORDINATE:	480450.66	480450.66	480450.66	480450.66	480450.66
EAST COORDINATE:	1381683.44	1381683.44	1381683.44	1381683.44	1381683.44
QA TYPE:	NORMAL	DUPLICATE	NORMAL	NORMAL	NORMAL
QC OF:		045652			
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	DL-UNF	DL-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	52.0200		-	51.7600		-									
INORGANICS																
ALUMINUM	MG/L							2.0300		-				0.9220		-
ANTIMONY	MG/L							0.0963		-				0.0157		U
ARSENIC	MG/L							0.0020		UJ				0.0020		U
BARIUM	MG/L							0.1400		-				0.0876		-
BERYLLIUM	MG/L							0.0158		-				0.0041		U
CADMIUM	MG/L							0.0211		-				0.0012		U
CALCIUM	MG/L							249.0000		-				136.0000		-
CHROMIUM	MG/L							0.5130		J				0.0736		-
COBALT	MG/L							0.0603		-				0.0034		U
COPPER	MG/L							0.0909		-				0.0268		-
CYANIDE	MG/L							0.0216		J				0.0100		U
IRON	MG/L							0.1890		-				0.0067		U
LEAD	MG/L							0.0070		J				0.0010		U
MAGNESIUM	MG/L							83.3000		-				36.3000		-
MANGANESE	MG/L							0.7260		-				0.3940		-
MERCURY	MG/L							0.0002		UJ				0.0002		U
NICKEL	MG/L							0.0946		-				0.0070		U
POTASSIUM	MG/L							5.8600		-				2.6000		-
SELENIUM	MG/L							0.0020		UJ				0.0010		UJ
SILVER	MG/L							0.2020		-				0.0518		J
SODIUM	MG/L							78.2000		-				91.2000		-
THALLIUM	MG/L							0.0020		UJ				0.0010		UJ
VANADIUM	MG/L							0.1640		-				0.0032		-
ZINC	MG/L							0.0096		U				0.0207		U

001305

PESTICIDES														
4,4'-DDD	UG/L						0.1000		U					
06/20/94														

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 651

SAMPLE NUMBER:	045652			045653			066899			120231			120231F		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		U						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		U						
ALPHA-CHLORDANE	UG/L							0.5000		U						
AROCLOR-1016	UG/L							0.5000		U						
AROCLOR-1221	UG/L							0.5000		U						
AROCLOR-1232	UG/L							0.5000		U						
AROCLOR-1242	UG/L							0.5000		U						
AROCLOR-1248	UG/L							0.5000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		U						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		U						
GAMMA-CHLORDANE	UG/L							0.5000		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							1.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L							26400.0000		NV						
URANIUM, TOTAL	UG/L	169000.00000		-	172000.000	26000	-	56700.0000		NV						
URANIUM-234	PCI/L							27600.0000		NV						
THORIUM-230	PCI/L							3.4500		NV						
RADIUM-226	PCI/L							1.0000		UNV						
URANIUM-235/236	PCI/L							2280.0000		NV						
THORIUM-232	PCI/L							6.6800		NV						
THORIUM, TOTAL	UG/L							60.3000		NV						
RADIUM-228	PCI/L							3.0000		UNV						
THORIUM-228	PCI/L							3.3400		NV						
NEPTUNIUM-237	PCI/L							1.0000		UNV						
PLUTONIUM-239/240	PCI/L							1.0000		UNV						

001306

5704

SAMPLE NUMBER:	045652	045653	066899	120231	120231F
LAB:			IT		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
PLUTONIUM-238	PCI/L							1.0000		UNV						
STRONTIUM-90	PCI/L							5.0000		UNV						
TECHNETIUM-99	PCI/L							1650.0000		NV						
RUTHENIUM-106	PCI/L							160.0000		UNV						
CESIUM-137	PCI/L							20.0000		UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		UR						
1,2-DICHLOROBENZENE	UG/L							10.0000		UR						
1,3-DICHLOROBENZENE	UG/L							10.0000		UR						
1,4-DICHLOROBENZENE	UG/L							10.0000		UR						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		UR						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		UR						
2,4-DICHLOROPHENOL	UG/L							10.0000		UR						
2,4-DIMETHYLPHENOL	UG/L							10.0000		UR						
2,4-DINITROPHENOL	UG/L							50.0000		UR						
2,4-DINITROTOLUENE	UG/L							10.0000		UR						
2,6-DINITROTOLUENE	UG/L							10.0000		UR						
2-CHLORONAPHTHALENE	UG/L							10.0000		UR						
2-CHLOROPHENOL	UG/L							10.0000		UR						
2-METHYLNAPHTHALENE	UG/L							10.0000		UR						
2-METHYLPHENOL	UG/L							10.0000		UR						
2-NITROANILINE	UG/L							50.0000		UR						
2-NITROPHENOL	UG/L							10.0000		UR						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		UR						
3-NITROANILINE	UG/L							50.0000		UR						
4,6-DINITRO-2-METHYLPHENOL	UG/L							50.0000		UR						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		UR						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		UR						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		UR						
4-METHYLPHENOL	UG/L							10.0000		UR						
4-NITROANILINE	UG/L							50.0000		UR						
4-NITROPHENOL	UG/L							50.0000		UR						
ACENAPHTHENE	UG/L							10.0000		UR						
ACENAPHTHYLENE	UG/L							10.0000		UR						
ANTHRACENE	UG/L							10.0000		UR						
BENZO(A)ANTHRACENE	UG/L							10.0000		UR						
BENZO(A)PYRENE	UG/L							10.0000		UR						
BENZO(B)FLUORANTHENE	UG/L							10.0000		UR						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		UR						
BENZO(K)FLUORANTHENE	UG/L							10.0000		UR						
BENZOIC ACID	UG/L							50.0000		UR						
BENZYL ALCOHOL	UG/L							10.0000		UR						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		UR						

SAMPLE NUMBER:		045652			045653			066899			120231			120231F		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		UR						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		UR						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		UR						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		UR						
CHRYSENE	UG/L							10.0000		UR						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		UR						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		UR						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UR						
DIBENZOFURAN	UG/L							10.0000		UR						
DIETHYL PHTHALATE	UG/L							10.0000		UR						
DIMETHYL PHTHALATE	UG/L							10.0000		UR						
FLUORANTHENE	UG/L							10.0000		UR						
FLUORENE	UG/L							10.0000		UR						
HEXACHLOROBENZENE	UG/L							10.0000		UR						
HEXACHLOROBUTADIENE	UG/L							10.0000		UR						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		UR						
HEXACHLOROETHANE	UG/L							10.0000		UR						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		UR						
ISOPHORONE	UG/L							10.0000		UR						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		UR						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		UR						
NAPHTHALENE	UG/L							10.0000		UR						
NITROBENZENE	UG/L							10.0000		UR						
P-CHLOROANILINE	UG/L							10.0000		UR						
PENTACHLOROPHENOL	UG/L							50.0000		UR						
PHENANTHRENE	UG/L							10.0000		UR						
PHENOL	MG/L							10.0000		UR						
PYRENE	UG/L							10.0000		UR						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							300.0000		-	270.0000		-			
1,1,2,2-TETRACHLOROETHANE	UG/L							5.0000		U	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L							120.0000		UR	10.0000		U			
1,1-DICHLOROETHANE	UG/L							41.0000		-	52.0000		-			
1,1-DICHLOROETHENE	UG/L							150.0000		R	110.0000		-			
1,2-DICHLOROETHANE	UG/L							140.0000		R	61.0000		-			
1,2-DICHLOROETHENE (TOTAL)	UG/L							240.0000		R	310.0000		-			
1,2-DICHLOROPROPANE	UG/L							5.0000		U	10.0000		U			
2-BUTANONE	UG/L							10.0000		U	10.0000		U			
2-HEXANONE	UG/L							10.0000		U	10.0000		U			
4-METHYL-2-PENTANONE	UG/L							250.0000		UR	10.0000		U			
ACETONE	UG/L							42.0000		R	10.0000		U			
BENZENE	UG/L							120.0000		UR	10.0000		U			
BROMODICHLOROMETHANE	UG/L							5.0000		U	10.0000		U			

001308

5704

SAMPLE NUMBER:	045652	045653	066899	120231	120231F
LAB:			IT	DATACHEM	
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOFORM	UG/L							5.0000		U	10.0000		U			
BROMOMETHANE	UG/L							250.0000		UR	10.0000		U			
CARBON DISULFIDE	UG/L							5.0000		U	10.0000		U			
CARBON TETRACHLORIDE	UG/L							5.0000		U	10.0000		U			
CHLOROBENZENE	UG/L							120.0000		UR	10.0000		U			
CHLOROETHANE	UG/L							250.0000		UR	10.0000		U			
CHLOROFORM	UG/L							4.0000		J	2.0000		J			
CHLOROMETHANE	UG/L							10.0000		U	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L							120.0000		UR	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L							5.0000		U	10.0000		U			
ETHYLBENZENE	UG/L							120.0000		UR	10.0000		U			
METHYLENE CHLORIDE	UG/L							5.0000		UJ	10.0000		U			
STYRENE	UG/L							5.0000		UJ	10.0000		U			
TETRACHLOROETHENE	UG/L							210.0000		R	2600.0000		-			
TOLUENE	UG/L							120.0000		UR	10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L							5.0000		U	10.0000		U			
TRICHLOROETHENE	UG/L							1400.0000		R	1600.0000		-			
VINYL ACETATE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U	10.0000		U			
XYLENES, TOTAL	UG/L							120.0000		UR	10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120232			120232F			120233			120234			120235		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		CORE			CORE			FERMCO			FERMCO			DATACHEM		
WELL OR BORING NUMBER:		1145			1145			1145			1145			1145		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		17-JUN-93			17-JUN-93			17-JUN-93			17-JUN-93			23-JUN-93		
NORTH COORDINATE:		480450.66			480450.66			480450.66			480450.66			480450.66		
EAST COORDINATE:		1381683.44			1381683.44			1381683.44			1381683.44			1381683.44		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													560.0000		-
AMMONIA	MG/L													0.2800		-
CHLORIDE	MG/L													39.0000		-
FLUORIDE	MG/L													0.3000		-
PHENOLS	MG/L													0.0070		-
PHOSPHORUS	MG/L													3.6000		-
SULFATE	MG/L													60.0000		-
SULFIDE	MG/L													6.0000		J
TOTAL KJELDAHL NITROGEN	MG/L													0.5000		-
TOTAL ORGANIC NITROGEN	MG/L													0.2200		-
INORGANICS																
ALUMINUM	MG/L													96.3000		J
ANTIMONY	MG/L													0.0157		U
ARSENIC	MG/L													0.0105		-
BARIUM	MG/L													0.5880		-
BERYLLIUM	MG/L													0.0094		U
CADMIUM	MG/L													0.0012		U
CALCIUM	MG/L													980.0000		-
CHROMIUM	MG/L													0.0897		-
COBALT	MG/L													0.0993		-
COPPER	MG/L													0.2040		-
CYANIDE	MG/L													0.0100		UJ
IRON	MG/L													217.0000		-
LEAD	MG/L													0.0662		-
MAGNESIUM	MG/L													328.0000		-
MANGANESE	MG/L													4.3300		-
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.2060		-

SAMPLE NUMBER:		120232			120232F			120233			120234			120235		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L													15.6000		-
SELENIUM	MG/L													0.0016		R
SILVER	MG/L													0.0531		UJ
SODIUM	MG/L													98.9000		-
THALLIUM	MG/L													0.0012		J
VANADIUM	MG/L													0.0152		U
ZINC	MG/L													0.5310		J
RADIONUCLIDES																
URANIUM-238	PCI/L	8380.000080		J	8380.0000	1280	J									
URANIUM, TOTAL	UG/L	25400.00080		J	25400.0000	1780	J				31000.0000		NV			
URANIUM-234	PCI/L	8070.000040		J	8070.0000	1240	J									
THORIUM-230	PCI/L	0.2000	.2	UJ	0.2000	.2	UJ									
RADIUM-226	PCI/L	2.4000	.6	-	2.4000	.6	-									
URANIUM-235/236	PCI/L	347.000019		J	347.0000	119	J									
THORIUM-232	PCI/L	0.2000	.3	UJ	0.2000	.3	UJ									
THORIUM, TOTAL	UG/L	1.8240	.3	NV	1.8240	.3	NV									
RADIUM-228	PCI/L	4.0000	1.1	-	4.0000	1.1	-									
THORIUM-228	PCI/L	0.2000	.7	UJ	0.2000	.7	UJ									
TECHNETIUM-99	PCI/L	2130.00008		-	2130.0000	118	-									
GROSS ALPHA	PCI/L	28400.0000		NV	28400.0000	109	NV	39000.0000		NV						
GROSS BETA	PCI/L	20100.0000		NV	20100.0000	52.5	NV	11000.0000		NV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_299			045309			045311			045367			062408		
TASK:		GWMON			3.7			3.7			3.7			04.30		
LAB:		NET			WMCO			IT			IT			IT/MWL		
WELL OR BORING NUMBER:		1145			1148			1148			1148			1148		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		29-OCT-90			10-AUG-89			08-OCT-89			08-OCT-89			03-FEB-93		
NORTH COORDINATE:		480450.66			480424.65			480424.65			480424.65			480424.65		
EAST COORDINATE:		1381683.44			1381655.96			1381655.96			1381655.96			1381655.96		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										677.0000		-			
INORGANICS																
CYANIDE	MG/L													0.0020		UJ
LEAD	MG/L	0.0420		NV												
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				13900.0000		NV	62300.0000	8200	-						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U

001312

5704

SAMPLE NUMBER:		EMGW_SYSGEN_299			045309			045311			045367			062408		
LAB:														IT/MWL		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													50.0000		U

SAMPLE NUMBER:		EMGW_SYSGEN_299			045309			045311			045367			062408		
LAB:														IT/MWL		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
TRIBUTYL PHOSPHATE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													73.0000		-
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													36.0000		-
1,1-DICHLOROETHENE	UG/L													190.0000		-
1,2-DICHLOROETHANE	UG/L													68.0000		-
1,2-DICHLOROETHENE (TOTAL)	UG/L													110.0000		-
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		UJ
2-HEXANONE	UG/L													10.0000		UJ
4-METHYL-2-PENTANONE	UG/L													10.0000		UJ
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L	0.8300		NV										10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		UJ
CHLOROFORM	UG/L													4.0000		J
CHLOROMETHANE	UG/L													10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L	0.5000		UNV										10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L	0.5000		UNV										10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													910.0000		-
TRICHLOROETHENE	UG/L													10.0000		UJ
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L	1.0000		UNV												

001314

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062412	066896	066896-1	EMGW_SYSGEN_300	045278
TASK:	04.30	3.7	3.7	GWMON	3.7
LAB:	IT/MWL	IT	IT/MWL	NET	WMCO
WELL OR BORING NUMBER:	1148	1148	1148	1148	1149
DEPTH:	-	-	-	-	-
DATE COLLECTED:	04-FEB-93	06-NOV-90	24-JUL-90	31-OCT-90	19-JUL-89
NORTH COORDINATE:	480424.65	480424.65	480424.65	480424.65	480374.92
EAST COORDINATE:	1381655.96	1381655.96	1381655.96	1381655.96	1381683.22
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	2.9000		-												
ANTIMONY	MG/L	0.0050		UJ												
ARSENIC	MG/L	0.0020		UJ												
BARIUM	MG/L	0.1210		-												
BERYLLIUM	MG/L	0.0046		-												
CADMIUM	MG/L	0.0050		U												
CALCIUM	MG/L	522.0000		-												
CHROMIUM	MG/L	0.0100		U												
COBALT	MG/L	0.0100		U												
COPPER	MG/L	0.0100		U												
IRON	MG/L	0.0200		U												
LEAD	MG/L	0.0020		U							0.0050		UNV			
MAGNESIUM	MG/L	177.0000		-												
MANGANESE	MG/L	0.4280		-												
MERCURY	MG/L	0.0002		U												
MOLYBDENUM	MG/L	0.0200		U												
NICKEL	MG/L	0.0580		-												
POTASSIUM	MG/L	6.6000		-												
SELENIUM	MG/L	0.0020		U												
SILICON	MG/L	7.8700		-												
SILVER	MG/L	0.0617		-												
SODIUM	MG/L	118.0000		-												
THALLIUM	MG/L	0.0020		U												
VANADIUM	MG/L	0.0100		U												
ZINC	MG/L	0.0220		-												
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U												
4,4'-DDE	UG/L	0.1000		U												

SAMPLE NUMBER:		062412			066896			066896-1			EMGW_SYSGEN_300			045278		
LAB:		IT/MWL														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDT	UG/L	0.1000		U												
ALDRIN	UG/L	0.0500		U												
ALPHA-BHC	UG/L	0.1500		U												
ALPHA-CHLORDANE	UG/L	0.5000		U												
AROCLOR-1016	UG/L	0.5000		U												
AROCLOR-1221	UG/L	0.5000		U												
AROCLOR-1232	UG/L	0.5000		U												
AROCLOR-1242	UG/L	0.5000		U												
AROCLOR-1248	UG/L	0.5000		U												
AROCLOR-1254	UG/L	1.0000		U												
AROCLOR-1260	UG/L	1.0000		U												
BETA-BHC	UG/L	0.0500		U												
DELTA-BHC	UG/L	0.0500		U												
DIELDRIN	UG/L	0.1000		U												
ENDOSULFAN II	UG/L	0.1000		U												
ENDOSULFAN SULFATE	UG/L	0.1000		U												
ENDOSULFAN-I	UG/L	0.0500		U												
ENDRIN	UG/L	0.1000		U												
ENDRIN KETONE	UG/L	0.1000		U												
GAMMA-BHC (LINDANE)	UG/L	0.0500		U												
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U												
HEPTACHLOR EPOXIDE	UG/L	0.0500		U												
METHOXYCHLOR	UG/L	0.5000		U												
TOXAPHENE	UG/L	1.0000		U												
RADIONUCLIDES																
URANIUM-238	PCI/L	28800.00000		NV				11816.0000	1491	-						
URANIUM, TOTAL	UG/L	64800.08000		NV				35350.0000	4491	J				138000.000		NV
URANIUM-234	PCI/L	25100.00000		NV				11082.0000	1404	-						
THORIUM-230	PCI/L	1.7600	.84	NV				2.5200	1.04	J						
RADIUM-226	PCI/L	1.0000		UNV				1.0000		U						
URANIUM-235/236	PCI/L	1000.0000		NV				506.0000	127	-						
THORIUM-232	PCI/L	10.0000		NV				4.0100	1.29	-						
THORIUM, TOTAL	UG/L	6.4000		NV				36.2000	11.7	-				400.0000		NV
RADIUM-228	PCI/L	4.0600	1.32	NV				219.0000	31	J						
THORIUM-228	PCI/L	10.0000		NV				1.6300	.87	-						
NEPTUNIUM-237	PCI/L	1.0000		NV				1.0000		U						
PLUTONIUM-239/240	PCI/L	1.0000	0	NV				1.0000		U						
PLUTONIUM-238	PCI/L	1.0000	0	NV				1.0000		U						
STRONTIUM-90	PCI/L	5.0000		NV				5.0000		UJ						
TECHNETIUM-99	PCI/L	773.00084		NV				663.0000	76	J						
RUTHENIUM-106	PCI/L	150.0000		UNV				150.0000		R						
CESIUM-137	PCI/L	20.0000		NV				20.0000		R						

SAMPLE NUMBER:		062412			066896		066896-1			EMGW_SYSGEN_300			045278		
LAB:		IT/RSL					IT								
SUFFIX/FILTERFLAG:		NONE-FIL			-		NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
GROSS ALPHA	PCI/L	36900.00000		NV												
GROSS BETA	PCI/L	21400.00000		NV												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U	10.0000		UJ						
1,2-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		UJ						
1,3-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		UR						
1,4-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		UR						
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		UR	50.0000		UJ						
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		UR	10.0000		UR						
2,4-DICHLOROPHENOL	UG/L				10.0000		UR	10.0000		UR						
2,4-DIMETHYLPHENOL	UG/L				10.0000		UR	10.0000		UR						
2,4-DINITROPHENOL	UG/L				50.0000		UR	50.0000		UJ						
2,4-DINITROTOLUENE	UG/L				10.0000		U	10.0000		UR						
2,6-DINITROTOLUENE	UG/L				10.0000		U	10.0000		UR						
2-CHLORONAPHTHALENE	UG/L				10.0000		U	10.0000		UR						
2-CHLOROPHENOL	UG/L				10.0000		UR	10.0000		UJ						
2-METHYLNAPHTHALENE	UG/L				10.0000		U	10.0000		UR						
2-METHYLPHENOL	UG/L				10.0000		UR	10.0000		UR						
2-NITROANILINE	UG/L				50.0000		U	50.0000		UR						
2-NITROPHENOL	UG/L				10.0000		UR	10.0000		UJ						
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UJ	20.0000		UR						
3-NITROANILINE	UG/L				50.0000		U	50.0000		UR						
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UR	50.0000		UJ						
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U	10.0000		UR						
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		UR	10.0000		UR						
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U	10.0000		UR						
4-METHYLPHENOL	UG/L				10.0000		UR	10.0000		UJ						
4-NITROANILINE	UG/L				50.0000		U	50.0000		UR						
4-NITROPHENOL	UG/L				50.0000		UR	50.0000		UR						
ACENAPHTHENE	UG/L				10.0000		U	10.0000		UR						
ACENAPHTHYLENE	UG/L				10.0000		U	10.0000		UJ						
ANTHRACENE	UG/L				10.0000		U	10.0000		UR						
BENZO(A)ANTHRACENE	UG/L				10.0000		U	10.0000		UR						
BENZO(A)PYRENE	UG/L				10.0000		U	10.0000		UR						
BENZO(B)FLUORANTHENE	UG/L				10.0000		U	10.0000		UJ						
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U	10.0000		UR						
BENZO(K)FLUORANTHENE	UG/L				10.0000		U	10.0000		UR						
BENZOIC ACID	UG/L				50.0000		UR	50.0000		UR						
BENZYL ALCOHOL	UG/L				10.0000		U	10.0000		UR						
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U	10.0000		UR						
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U	10.0000		UR						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U	10.0000		UJ						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U	10.0000		UR						

SAMPLE NUMBER:	062412	066896	066896-1	EMGW_SYSGEN_300	045278
LAB:		IT	IT/MWL		
SUFFIX/FILTERFLAG:	-	NONE-UNF	R-UNF	-	-

		062412 RESULT	SIGMA	VAL QUAL(1)	066896 RESULT	SIGMA	VAL QUAL(1)	066896-1 RESULT	SIGMA	VAL QUAL(1)	EMGW_SYSGEN_300 RESULT	SIGMA	VAL QUAL(1)	045278 RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U	10.0000		UR						
CHRYSENE	UG/L				10.0000		U	10.0000		UR						
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U	10.0000		UJ						
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U	10.0000		UR						
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ	10.0000		UR						
DIBENZOFURAN	UG/L				10.0000		U	10.0000		UR						
DIETHYL PHTHALATE	UG/L				10.0000		U	10.0000		UJ						
DIMETHYL PHTHALATE	UG/L				10.0000		U	10.0000		UR						
FLUORANTHENE	UG/L				10.0000		U	10.0000		UR						
FLUORENE	UG/L				10.0000		U	10.0000		UR						
HEXACHLOROBENZENE	UG/L				10.0000		U	10.0000		UJ						
HEXACHLOROBUTADIENE	UG/L				10.0000		U	10.0000		UR						
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UJ	10.0000		UR						
HEXACHLOROETHANE	UG/L				10.0000		U	10.0000		UJ						
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U	10.0000		UR						
ISOPHORONE	UG/L				10.0000		U	10.0000		UR						
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U	10.0000		UR						
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U	10.0000		UR						
NAPHTHALENE	UG/L				10.0000		U	10.0000		UR						
NITROBENZENE	UG/L				10.0000		U	10.0000		UR						
P-CHLOROANILINE	UG/L				10.0000		U	10.0000		UR						
PENTACHLOROPHENOL	UG/L				50.0000		UR	50.0000		UR						
PHENANTHRENE	UG/L				10.0000		U	10.0000		UR						
PHENOL	MG/L				10.0000		UR	10.0000		UJ						
PYRENE	UG/L				10.0000		U	10.0000		UR						
VOLATILES																
BENZENE	UG/L										0.5000		UNV			
ETHYLBENZENE	UG/L										0.5000		UNV			
TOLUENE	UG/L										0.5000		UNV			
XYLENES, TOTAL	UG/L										1.0000		UNV			

001318

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045279	045369	045370	045658	045659
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	1149	1149	1149	1149	1149
DEPTH:	-	-	-	-	-
DATE COLLECTED:	02-AUG-89	08-OCT-89	08-OCT-89	22-FEB-90	28-FEB-90
NORTH COORDINATE:	480374.92	480374.92	480374.92	480374.92	480374.92
EAST COORDINATE:	1381683.22	1381683.22	1381683.22	1381683.22	1381683.22
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L													2.5000		NV
CHLORIDE	MG/L													50.8000		NV
FLUORIDE	MG/L													0.1250		NV
NITRATE	MG/L							839.0000		-	77.4000		J	843.0000		NV
NITRATE, AS NITROGEN	MG/L	3440.0000		NV												
PH	STD	6.7900		NV												
PHENOLS	MG/L													0.0700		NV
PHOSPHORUS	MG/L													39.8000		NV
SULFATE	MG/L													98.2000		NV
TOTAL KJELDAHL NITROGEN	MG/L													7.2700		NV
TOTAL ORGANIC CARBON	MG/L													39.9000		NV
TOTAL ORGANIC HALIDES	MG/L													0.6520		NV
TOTAL ORGANIC NITROGEN	MG/L													4.7700		NV
INORGANICS																
ALUMINUM	MG/L													3.4100		J
ANTIMONY	MG/L													0.0680		-
ARSENIC	MG/L													0.0020		U
BARIUM	MG/L													0.5890		-
BERYLLIUM	MG/L													0.0343		-
CADMIUM	MG/L													0.0400		-
CALCIUM	MG/L													976.0000		-
CHROMIUM	MG/L													0.8180		J
COBALT	MG/L													0.0886		-
COPPER	MG/L													0.0916		-
CYANIDE	MG/L													0.2480		R
IRON	MG/L													0.3580		-
LEAD	MG/L													0.0042		-
MAGNESIUM	MG/L													251.0000		-

SAMPLE NUMBER:	045279			045369			045370			045658			045659		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MANGANESE MG/L													1.5800		J
MERCURY MG/L													0.0002		UJ
MOLYBDENUM MG/L													0.0448		U
NICKEL MG/L													0.2270		-
POTASSIUM MG/L													4.5000		-
SELENIUM MG/L													0.0020		UJ
SILVER MG/L													0.2640		-
SODIUM MG/L													207.0000		-
THALLIUM MG/L													0.0020		U
VANADIUM MG/L													0.2990		-
ZINC MG/L													0.2680		J
PESTICIDES															
4,4'-DDD UG/L													0.2000		U
4,4'-DDE UG/L													0.2000		U
4,4'-DDT UG/L													0.2000		U
ALDRIN UG/L													0.1000		U
ALPHA-BHC UG/L													0.1000		U
ALPHA-CHLORDANE UG/L													1.0000		U
AROCLOR-1016 UG/L													1.0000		U
AROCLOR-1221 UG/L													1.0000		U
AROCLOR-1232 UG/L													1.0000		U
AROCLOR-1242 UG/L													1.0000		U
AROCLOR-1248 UG/L													1.0000		U
AROCLOR-1254 UG/L													2.0000		U
AROCLOR-1260 UG/L													2.0000		U
BETA-BHC UG/L													0.1000		U
DELTA-BHC UG/L													0.1000		U
DIELDRIN UG/L													0.2000		U
ENDOSULFAN II UG/L													0.2000		U
ENDOSULFAN SULFATE UG/L													0.2000		U
ENDOSULFAN-I UG/L													0.1000		U
ENDRIN UG/L													0.2000		U
ENDRIN KETONE UG/L													0.2000		U
GAMMA-BHC (LINDANE) UG/L													0.1000		U
GAMMA-CHLORDANE UG/L													1.0000		U
HEPTACHLOR UG/L													0.1000		U
HEPTACHLOR EPOXIDE UG/L													0.1000		U
METHOXYCHLOR UG/L													1.0000		U
TOXAPHENE UG/L													2.0000		U
RADIONUCLIDES															
URANIUM-238 PCI/L										80968.0000	60329	R			

001320

5704

SAMPLE NUMBER:		045279			045369			045370			045658			045659		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	156000.000		NV	1480.0000	160	-				201000.000	28000	-			
URANIUM-234	PCI/L										37617.0000	28051	R			
THORIUM-230	PCI/L										2.0000		U			
RADIUM-226	PCI/L										2.3100	.5	NV			
URANIUM-235/236	PCI/L										2219.0000	1686	R			
THORIUM-232	PCI/L										2.0000		U			
THORIUM, TOTAL	UG/L	400.0000		NV							18.0000		U			
RADIUM-228	PCI/L										3.0000		R			
THORIUM-228	PCI/L										2.0000		U			
NEPTUNIUM-237	PCI/L										1.0000		U			
PLUTONIUM-239/240	PCI/L										1.0000		U			
PLUTONIUM-238	PCI/L										1.0000		U			
STRONTIUM-90	PCI/L										5.0000		R			
TECHNETIUM-99	PCI/L										2140.0000	230	J			
RUTHENIUM-106	PCI/L										150.0000		U			
CESIUM-137	PCI/L										20.0000		U			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		UR
1,2-DICHLOROBENZENE	UG/L													10.0000		UR
1,3-DICHLOROBENZENE	UG/L													10.0000		UR
1,4-DICHLOROBENZENE	UG/L													10.0000		UR
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		UR
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		UR
2,4-DICHLOROPHENOL	UG/L													10.0000		UR
2,4-DIMETHYLPHENOL	UG/L													10.0000		UR
2,4-DINITROPHENOL	UG/L													50.0000		R
2,4-DINITROTOLUENE	UG/L													10.0000		UR
2,6-DINITROTOLUENE	UG/L													10.0000		UR
2-CHLORONAPHTHALENE	UG/L													10.0000		UR
2-CHLOROPHENOL	UG/L													10.0000		UR
2-METHYLNAPHTHALENE	UG/L													10.0000		UR
2-METHYLPHENOL	UG/L													10.0000		UR
2-NITROANILINE	UG/L													50.0000		UR
2-NITROPHENOL	UG/L													10.0000		UR
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		UR
3-NITROANILINE	UG/L													50.0000		UR
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		UR
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		UR
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		UR
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		UR
4-METHYLPHENOL	UG/L													10.0000		UR
4-NITROANILINE	UG/L													50.0000		UR
4-NITROPHENOL	UG/L													50.0000		UR

SAMPLE NUMBER:	045279			045369			045370			045658			045659		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
ACENAPHTHENE UG/L													10.0000		UR
ACENAPHTHYLENE UG/L													10.0000		UR
ANTHRACENE UG/L													10.0000		UR
BENZO(A)ANTHRACENE UG/L													10.0000		UR
BENZO(A)PYRENE UG/L													10.0000		UR
BENZO(B)FLUORANTHENE UG/L													10.0000		UR
BENZO(G,H,I)PERYLENE UG/L													10.0000		UR
BENZO(K)FLUORANTHENE UG/L													10.0000		UR
BENZOIC ACID UG/L													50.0000		UR
BENZYL ALCOHOL UG/L													10.0000		UR
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		UR
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		UR
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		UR
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		UR
BUTYL BENZYL PHTHALATE UG/L													10.0000		UR
CHRYSENE UG/L													10.0000		UR
DI-N-BUTYL PHTHALATE UG/L													10.0000		UR
DI-N-OCTYL PHTHALATE UG/L													10.0000		UR
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		UR
DIBENZOFURAN UG/L													10.0000		UR
DIETHYL PHTHALATE UG/L													10.0000		UR
DIMETHYL PHTHALATE UG/L													10.0000		UR
FLUORANTHENE UG/L													10.0000		UR
FLUORENE UG/L													10.0000		UR
HEXACHLOROBENZENE UG/L													10.0000		UR
HEXACHLOROBUTADIENE UG/L													10.0000		UR
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		UR
HEXACHLOROETHANE UG/L													10.0000		UR
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		UR
ISOPHORONE UG/L													10.0000		UR
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		UR
N-NITROSODIPHENYLAMINE UG/L													10.0000		UR
NAPHTHALENE UG/L													10.0000		UR
NITROBENZENE UG/L													10.0000		UR
P-CHLOROANILINE UG/L													10.0000		UR
PENTACHLOROPHENOL UG/L													50.0000		UR
PHENANTHRENE UG/L													10.0000		UR
PHENOL MG/L													10.0000		UR
PYRENE UG/L													10.0000		UR
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L													310.0000		R
1,1,2,2-TETRACHLOROETHANE UG/L													5.0000		U
1,1,2-TRICHLOROETHANE UG/L													5.0000		U

SAMPLE NUMBER:	045279	045369	045370	045658	045659
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHANE	UG/L													74.0000		-
1,1-DICHLOROETHENE	UG/L													460.0000		R
1,2-DICHLOROETHANE	UG/L													86.0000		-
1,2-DICHLOROETHENE (TOTAL)	UG/L													430.0000		R
1,2-DICHLOROPROPANE	UG/L													5.0000		U
2-BUTANONE	UG/L													67.0000		-
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													1.0000		J
BROMODICHLOROMETHANE	UG/L													5.0000		U
BROMOFORM	UG/L													5.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													5.0000		U
CARBON TETRACHLORIDE	UG/L													5.0000		-
CHLOROBENZENE	UG/L													5.0000		UJ
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													26.0000		-
CHLOROMETHANE	UG/L													10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		UJ
METHYLENE CHLORIDE	UG/L													28.0000		U
STYRENE	UG/L													5.0000		UJ
TETRACHLOROETHENE	UG/L													14.0000		-
TOLUENE	UG/L													5.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
TRICHLOROETHENE	UG/L													1400.0000		R
VINYL ACETATE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062409			066900			066917			045139			045152		
TASK:	04.30			3.7			3.7			3.7			3.7		
LAB:	IT/MWL			IT			IT/MWL			WMCO			WMCO		
WELL OR BORING NUMBER:	1149			1149			1149			1150			1150		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	03-FEB-93			23-JUL-90			24-JUL-90			05-MAY-89			01-JUN-89		
NORTH COORDINATE:	480374.92			480374.92			480374.92			480419.86			480419.86		
EAST COORDINATE:	1381683.22			1381683.22			1381683.22			1380749.86			1380749.86		
QA TYPE:	NORMAL			NORMAL			DUPLICATE			NORMAL			NORMAL		
QC OF:	062407						066900								
SUFFIX/FILTERFLAG:	DL-UNF			DL-UNF			DL-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	4.6000		-				2.6000		-						
ANTIMONY	MG/L	0.0050		UJ				0.1740		-						
ARSENIC	MG/L	0.0020		UJ				0.0020		UJ						
BARIUM	MG/L	0.5370		-				0.6490		-						
BERYLLIUM	MG/L	0.0100		U				0.0247		-						
CADMIUM	MG/L	0.0250		U				0.0368		-						
CALCIUM	MG/L	841.0000		-				884.0000		-						
CHROMIUM	MG/L	0.0500		U				0.6990		J						
COBALT	MG/L	0.0500		U				0.0788		-						
COPPER	MG/L	0.0500		U				0.1520		-						
CYANIDE	MG/L	0.0605		J				0.0464		J						
IRON	MG/L	0.1000		U				0.1910		-						
LEAD	MG/L	0.0020		U				0.0020		UJ						
MAGNESIUM	MG/L	217.0000		-				228.0000		-						
MANGANESE	MG/L	0.5410		-				1.6300		-						
MERCURY	MG/L	0.0002		U				0.0002		U						
MOLYBDENUM	MG/L	0.1000		U												
NICKEL	MG/L	0.1440		-				0.2320		-						
POTASSIUM	MG/L	6.2700		-				8.0700		-						
SELENIUM	MG/L	0.0020		U				0.0020		UJ						
SILICON	MG/L	6.7400		-												
SILVER	MG/L	0.0839		-				0.2610		-						
SODIUM	MG/L	178.0000		-				192.0000		-						
THALLIUM	MG/L	0.0020		U				0.0020		UJ						
VANADIUM	MG/L	0.0500		U				0.2320		-						
ZINC	MG/L	0.0250		U				0.0476		-						
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U				0.1000		U						

SAMPLE NUMBER:	062409			066900			066917			045139			045152		
LAB:	IT						IT/MWL								
SUFFIX/FILTERFLAG:	NONE-UNF			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDE	UG/L	0.1000		U				0.1000		U						
4,4'-DDT	UG/L	0.1000		U				0.1000		U						
ALDRIN	UG/L	0.0500		U				0.0500		U						
ALPHA-BHC	UG/L	0.0500		U				0.0500		U						
ALPHA-CHLORDANE	UG/L	0.5000		U				0.5000		U						
AROCLOR-1016	UG/L	0.5000		U				0.5000		U						
AROCLOR-1221	UG/L	0.5000		U				0.5000		U						
AROCLOR-1232	UG/L	0.5000		U				0.5000		U						
AROCLOR-1242	UG/L	0.5000		U				0.5000		U						
AROCLOR-1248	UG/L	0.5000		U				0.5000		U						
AROCLOR-1254	UG/L	1.0000		U				1.0000		U						
AROCLOR-1260	UG/L	1.0000		U				1.0000		U						
BETA-BHC	UG/L	0.0500		U				0.0500		U						
DELTA-BHC	UG/L	0.0500		U				0.0500		U						
DIELDRIN	UG/L	0.1000		U				0.1000		U						
ENDOSULFAN II	UG/L	0.1000		U				0.1000		U						
ENDOSULFAN SULFATE	UG/L	0.1000		U				0.1000		U						
ENDOSULFAN-I	UG/L	0.0500		U				0.0500		U						
ENDRIN	UG/L	0.1000		U				0.1000		U						
ENDRIN KETONE	UG/L	0.1000		U				0.1000		U						
GAMMA-BHC (LINDANE)	UG/L	0.0500		U				0.0500		U						
GAMMA-CHLORDANE	UG/L	0.5000		U				0.5000		U						
HEPTACHLOR	UG/L	0.0500		U				0.0500		U						
HEPTACHLOR EPOXIDE	UG/L	0.0500		U				0.0500		U						
METHOXYCHLOR	UG/L	0.5000		U				0.5000		U						
TOXAPHENE	UG/L	1.0000		U				1.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L	35400.0000		J	40811.0000	9163	R	39014.0000	9698	J	200.0000		NV	130.0000		NV
URANIUM, TOTAL	UG/L	93500.000000		J	157000.000	20400	J	142000.000	18300	-	410.0000		NV	390.0000		NV
URANIUM-234	PCI/L	33400.0000		J	35915.0000	8072	R	36035.0000	8968	J	110.0000		NV	120.0000		NV
THORIUM-230	PCI/L	1.9000	.088	J	4.2000	1.21	J	2.7600	1.27	-						
RADIUM-226	PCI/L	1.0000	.2	UJ	1.0000		U	1.0000		U						
URANIUM-235/236	PCI/L	1360.00000		J	2956.0000	725	R	1602.0000	527	J						
THORIUM-232	PCI/L	0.8000		UJ	6.8600	1.61	-	11.3000	2.7	-						
THORIUM, TOTAL	UG/L	7.5000		UJ	61.9000	14.5	-	102.0000	24	-						
RADIUM-228	PCI/L	3.0000		UJ	53.9000	7.9	J	15.0000	2.4	J						
THORIUM-228	PCI/L	1.2000		UJ	2.8400	.99	-	2.4600	1.21	-						
NEPTUNIUM-237	PCI/L	0.5000	.2	UJ	1.0000		U	1.0000		U						
PLUTONIUM-239/240	PCI/L	0.5000		UJ	1.0000		UJ	1.0000		UJ						
PLUTONIUM-238	PCI/L	0.5000		UJ	1.0000		UJ	1.0000		U						
STRONTIUM-90	PCI/L	1.5000		UJ	5.0000		UJ	7.6800	1.62	-						
TECHNETIUM-99	PCI/L	2670.00000		J	1672.0000	176	-	1802.0000	190	J						
RUTHENIUM-106	PCI/L	176.0000		UJ	150.0000		R	150.0000		R						

SAMPLE NUMBER:	062409			066900			066917			045139			045152		
LAB:	IT/RSL			IT			IT								
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
CESIUM-137	PCI/L	15.0000		UJ	20.0000		R	20.0000		R						
GROSS ALPHA	PCI/L	57100.0B800		NV												
GROSS BETA	PCI/L	31900.0B800		NV												
URANIUM-235	PCI/L										9.3000		NV	6.0000		NV
URANIUM-236	PCI/L										3.1000		NV	2.5000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	50.0000		UJ	50.0000		UJ						
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
2,4-DIMETHYLPHENOL	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
2,4-DINITROPHENOL	UG/L	50.0000		UJ	50.0000		UJ	50.0000		UJ						
2,4-DINITROTOLUENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
2-METHYLPHENOL	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
2-NITROANILINE	UG/L	50.0000		U	50.0000		UR	50.0000		UJ						
2-NITROPHENOL	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U	20.0000		UR	20.0000		UJ						
3-NITROANILINE	UG/L	50.0000		U	50.0000		UJ	50.0000		UJ						
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U	50.0000		UJ	50.0000		UJ						
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
4-METHYLPHENOL	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
4-NITROANILINE	UG/L	50.0000		U	50.0000		UJ	50.0000		UJ						
4-NITROPHENOL	UG/L	50.0000		U	50.0000		UR	50.0000		UJ						
ACENAPHTHENE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
ACENAPHTHYLENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
ANTHRACENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
BENZO(A)ANTHRACENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
BENZO(A)PYRENE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
BENZO(B)FLUORANTHENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						
BENZO(K)FLUORANTHENE	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
BENZOIC ACID	UG/L	50.0000		U	2.0000		J	50.0000		UJ						
BENZYL ALCOHOL	UG/L	10.0000		U	10.0000		UR	10.0000		UJ						
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ						

SAMPLE NUMBER:		062409		066900		066917		045139		045152	
LAB:		IT/MWL		IT		IT					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000	U	4.0000	UJ	3.0000	J				
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
CHRYSENE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
DIBENZOFURAN	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
DIETHYL PHTHALATE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
DIMETHYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
FLUORANTHENE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
FLUORENE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
HEXACHLOROBENZENE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
HEXACHLOROBUTADIENE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
HEXACHLOROETHANE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
ISOPHORONE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
NAPHTHALENE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
NITROBENZENE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
P-CHLOROANILINE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
PENTACHLOROPHENOL	UG/L	50.0000	U	50.0000	UJ	50.0000	UJ				
PHENANTHRENE	UG/L	10.0000	U	10.0000	UR	10.0000	UJ				
PHENOL	MG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
PYRENE	UG/L	10.0000	U	10.0000	UJ	10.0000	UJ				
TRIBUTYL PHOSPHATE	UG/L	10.0000	U								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	190.0000	J	330.0000	-	360.0000	J				
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000	U	250.0000	UR	5.0000	UJ				
1,1,2-TRICHLOROETHANE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
1,1-DICHLOROETHANE	UG/L	72.0000	-	94.0000	R	88.0000	J				
1,1-DICHLOROETHENE	UG/L	270.0000	-	490.0000	-	490.0000	J				
1,2-DICHLOROETHANE	UG/L	72.0000	-	99.0000	R	500.0000	UR				
1,2-DICHLOROETHENE (TOTAL)	UG/L	280.0000	-	460.0000	-	430.0000	J				
1,2-DICHLOROPROPANE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
2-BUTANONE	UG/L	10.0000	UJ	490.0000	R	570.0000	R				
2-HEXANONE	UG/L	10.0000	UJ	500.0000	UR	1000.0000	UR				
4-METHYL-2-PENTANONE	UG/L	10.0000	UJ	500.0000	UR	1000.0000	UR				
ACETONE	UG/L	10.0000	UJ	79.0000	R	140.0000	R				
BENZENE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				

SAMPLE NUMBER:		062409		066900		066917		045139		045152	
LAB:		IT/MWL		IT		IT/MWL					
SUFFIX/FILTERFLAG:		NONE-UNF		DL-UNF		DL-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
BROMODICHLOROMETHANE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
BROMOFORM	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
BROMOMETHANE	UG/L	10.0000	U	500.0000	UR	1000.0000	UR				
CARBON DISULFIDE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
CARBON TETRACHLORIDE	UG/L	21.0000	-	250.0000	UR	500.0000	UR				
CHLOROBENZENE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
CHLOROETHANE	UG/L	10.0000	UJ	500.0000	UR	1000.0000	UR				
CHLOROFORM	UG/L	33.0000	-	250.0000	UR	500.0000	UR				
CHLOROMETHANE	UG/L	10.0000	UJ	500.0000	UR	1000.0000	UR				
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000	U	5.0000	U	500.0000	UR				
DIBROMOCHLOROMETHANE	UG/L	100.0000	U	250.0000	UR	500.0000	UR				
ETHYLBENZENE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
METHYLENE CHLORIDE	UG/L	10.0000	U	5.0000	U	490.0000	R				
STYRENE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
TETRACHLOROETHENE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
TOLUENE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000	U	250.0000	UR	500.0000	UR				
TRICHLOROETHENE	UG/L	3700.0000	-	5000.0000	-	6000.0000	-				
VINYL ACETATE	UG/L	10.0000	UJ	500.0000	UR	1000.0000	UR				
VINYL CHLORIDE	UG/L	10.0000	UJ	10.0000	U	1000.0000	UR				
XYLENES, TOTAL	UG/L	10.0000	U	250.0000	UR	500.0000	UR				

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045661	045662	098911	098922	098923
TASK:	3.7	3.7	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	WMCO
WELL OR BORING NUMBER:	1150	1150	1150	1150	1150
DEPTH:	-	-	-	-	-
DATE COLLECTED:	30-JAN-90	01-FEB-90	17-JUN-92	18-JUN-92	18-JUN-92
NORTH COORDINATE:	480419.86	480419.86	480419.86	480419.86	480419.86
EAST COORDINATE:	1380749.86	1380749.86	1380749.86	1380749.86	1380749.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.4500		-	0.4600		-									
SULFIDE	MG/L							0.5000		UNV						
TOTAL ORGANIC CARBON	MG/L							1.0000		UNV						
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV						
INORGANICS																
ALUMINUM	MG/L										0.0300		U			
ANTIMONY	MG/L										0.0300		U			
ARSENIC	MG/L										0.0020		U			
BARIUM	MG/L										0.0396		-			
BERYLLIUM	MG/L										0.0020		U			
CADMIUM	MG/L										0.0050		U			
CALCIUM	MG/L										93.4000		-			
CHROMIUM	MG/L										0.0100		U			
COBALT	MG/L										0.0100		U			
COPPER	MG/L										0.0100		U			
IRON	MG/L										0.0200		U			
LEAD	MG/L										0.0020		U			
MAGNESIUM	MG/L										21.2000		-			
MANGANESE	MG/L										0.0100		U			
MERCURY	MG/L										0.0002		U			
MOLYBDENUM	MG/L										0.0200		U			
NICKEL	MG/L										0.0200		U			
POTASSIUM	MG/L										1.1800		-			
SELENIUM	MG/L										0.0020		U			
SILICON	MG/L										3.4300		-			
SILVER	MG/L										0.0100		U			
SODIUM	MG/L										8.2200		-			
VANADIUM	MG/L										0.0100		U			

SAMPLE NUMBER:	045661			045662			098911			098922			098923		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ZINC MG/L										0.0092		-			
RADIONUCLIDES															
URANIUM, TOTAL UG/L													800.0000		NV
GROSS ALPHA PCI/L										723.0000	82	NV			
GROSS BETA PCI/L										169.0000	18	NV			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L							5.0000		U						
1,1,2,2-TETRACHLOROETHANE UG/L							5.0000		U						
1,1,2-TRICHLOROETHANE UG/L							5.0000		U						
1,1-DICHLOROETHANE UG/L							5.0000		U						
1,1-DICHLOROETHENE UG/L							5.0000		U						
1,2-DICHLOROETHANE UG/L							5.0000		U						
1,2-DICHLOROETHENE (TOTAL) UG/L							5.0000		U						
1,2-DICHLOROPROPANE UG/L							5.0000		U						
2-BUTANONE UG/L							10.0000		U						
2-HEXANONE UG/L							10.0000		U						
4-METHYL-2-PENTANONE UG/L							10.0000		U						
ACETONE UG/L							10.0000		U						
BENZENE UG/L							5.0000		U						
BROMODICHLOROMETHANE UG/L							5.0000		U						
BROMOFORM UG/L							5.0000		U						
BROMOMETHANE UG/L							10.0000		UJ						
CARBON DISULFIDE UG/L							5.0000		U						
CARBON TETRACHLORIDE UG/L							5.0000		UJ						
CHLOROBENZENE UG/L							5.0000		U						
CHLOROETHANE UG/L							10.0000		UJ						
CHLOROFORM UG/L							5.0000		U						
CHLOROMETHANE UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE UG/L							5.0000		U						
DIBROMOCHLOROMETHANE UG/L							5.0000		U						
ETHYLBENZENE UG/L							5.0000		U						
METHYLENE CHLORIDE UG/L							5.0000		U						
STYRENE UG/L							5.0000		U						
TETRACHLOROETHENE UG/L							5.0000		U						
TOLUENE UG/L							5.0000		U						
TRANS-1,3-DICHLOROPROPENE UG/L							5.0000		U						
TRICHLOROETHENE UG/L							5.0000		U						
VINYL ACETATE UG/L							10.0000		U						
VINYL CHLORIDE UG/L							10.0000		U						
XYLENES, TOTAL UG/L							5.0000		U						

001330

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	098924	098994	099013	099018	099024
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	WMCO	IT	IT
WELL OR BORING NUMBER:	1150	1150	1150	1150	1150
DEPTH:	-	-	-	-	-
DATE COLLECTED:	19-JUN-92	28-OCT-92	28-OCT-92	29-OCT-92	03-NOV-92
NORTH COORDINATE:	480419.86	480419.86	480419.86	480419.86	480419.86
EAST COORDINATE:	1380749.86	1380749.86	1380749.86	1380749.86	1380749.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										285.0000		-			
AMMONIA	MG/L	0.2300		-							0.1000		U			
CHLORIDE	MG/L	10.4700		-							16.7000		-			
FLUORIDE	MG/L	0.7800		-							0.4900		-			
NITRATE/NITRITE	MG/L	1.8800		-												
PHENOLS	MG/L	0.0100		U												
PHOSPHORUS	MG/L	0.1200		-							0.5800		-			
SULFATE	MG/L	36.1000		-							131.9000		-			
TOTAL ORGANIC CARBON	MG/L				1.5500		-									
TOTAL ORGANIC HALIDES	MG/L				28.8000		-									
TOTAL ORGANIC NITROGEN	MG/L	0.1000		U							0.3900		-			
INORGANICS																
CYANIDE	MG/L													0.0020		U
RADIONUCLIDES																
URANIUM-238	PCI/L	348.00007		J												
URANIUM, TOTAL	UG/L	1050.00000		-				690.0000		NV						
URANIUM-234	PCI/L	314.00002		J												
THORIUM-230	PCI/L	0.3000	.2	J												
RADIUM-226	PCI/L	1.0000	.13	UJ												
URANIUM-235/236	PCI/L	28.90005	.4	J												
THORIUM-232	PCI/L	0.2000		UJ												
THORIUM, TOTAL	UG/L	1.6000		U												
RADIUM-228	PCI/L	3.0000		UJ												
THORIUM-228	PCI/L	0.4000	.2	J												
NEPTUNIUM-237	PCI/L	1.0000		R												
PLUTONIUM-239/240	PCI/L	0.5000	.2	UJ												

1331

SAMPLE NUMBER:	098924			098994			099013			099018			099024		
LAB:	IT/RSL														
SUFFIX/FILTERFLAG:	NONE-FIL			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
PLUTONIUM-238 PCI/L	0.5000		UJ												
STRONTIUM-90 PCI/L	3.6000	.7	J												
TECHNETIUM-99 PCI/L	30.4000	16.7	-												
RUTHENIUM-106 PCI/L	150.0000		UJ												
CESIUM-137 PCI/L	12.0000		UJ												
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L				5.0000		U									
1,1,2,2-TETRACHLOROETHANE UG/L				5.0000		U									
1,1,2-TRICHLOROETHANE UG/L				5.0000		U									
1,1-DICHLOROETHANE UG/L				5.0000		U									
1,1-DICHLOROETHENE UG/L				5.0000		U									
1,2-DICHLOROETHANE UG/L				5.0000		U									
1,2-DICHLOROETHENE (TOTAL) UG/L				5.0000		U									
1,2-DICHLOROPROPANE UG/L				5.0000		U									
2-BUTANONE UG/L				10.0000		UJ									
2-HEXANONE UG/L				10.0000		UJ									
4-METHYL-2-PENTANONE UG/L				10.0000		UJ									
ACETONE UG/L				10.0000		UJ									
BENZENE UG/L				5.0000		U									
BROMODICHLOROMETHANE UG/L				5.0000		U									
BROMOFORM UG/L				5.0000		U									
BROMOMETHANE UG/L				10.0000		U									
CARBON DISULFIDE UG/L				5.0000		U									
CARBON TETRACHLORIDE UG/L				5.0000		U									
CHLOROBENZENE UG/L				5.0000		U									
CHLOROETHANE UG/L				10.0000		U									
CHLOROFORM UG/L				5.0000		U									
CHLOROMETHANE UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE UG/L				5.0000		U									
DIBROMOCHLOROMETHANE UG/L				5.0000		U									
ETHYLBENZENE UG/L				5.0000		U									
METHYLENE CHLORIDE UG/L				6.0000		UJ									
STYRENE UG/L				5.0000		U									
TETRACHLOROETHENE UG/L				5.0000		U									
TOLUENE UG/L				5.0000		U									
TRANS-1,3-DICHLOROPROPENE UG/L				5.0000		U									
TRICHLOROETHENE UG/L				5.0000		U									
VINYL ACETATE UG/L				10.0000		UJ									
VINYL CHLORIDE UG/L				10.0000		U									
XYLENES, TOTAL UG/L				5.0000		U									

001332

5204

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	099033	099047	099051	099059	099070
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT-KNOX	IT	IT/MWL	IT-KNOX	IT/MWL
WELL OR BORING NUMBER:	1150	1150	1150	1150	1150
DEPTH:	-	-	-	-	-
DATE COLLECTED:	04-NOV-92	05-NOV-92	06-NOV-92	11-NOV-92	18-NOV-92
NORTH COORDINATE:	480419.86	480419.86	480419.86	480419.86	480419.86
EAST COORDINATE:	1380749.86	1380749.86	1380749.86	1380749.86	1380749.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		UJ												
PHENOLS	MG/L				0.0100		U									
SULFIDE	MG/L	0.5000		U												
INORGANICS																
ALUMINUM	MG/L							0.0550		U						
ANTIMONY	MG/L							0.0050		U						
ARSENIC	MG/L							0.0025		U						
BARIUM	MG/L							0.0481		-						
BERYLLIUM	MG/L							0.0020		U						
CADMIUM	MG/L							0.0050		U						
CALCIUM	MG/L							121.0000		-						
CHROMIUM	MG/L							0.0100		U						
COBALT	MG/L							0.0100		U						
COPPER	MG/L							0.0100		U						
IRON	MG/L							0.0200		U						
LEAD	MG/L							0.0025		U						
MAGNESIUM	MG/L							28.2000		-						
MANGANESE	MG/L							0.0139		-						
MERCURY	MG/L							0.0002		U						
MOLYBDENUM	MG/L							0.0200		U						
NICKEL	MG/L							0.0200		U						
POTASSIUM	MG/L							1.8800		-						
SELENIUM	MG/L							0.0020		U						
SILICON	MG/L							5.0100		-						
SILVER	MG/L							0.0100		U						
SODIUM	MG/L							10.3000		-						
THALLIUM	MG/L							0.0020		U						
VANADIUM	MG/L							0.0100		U						

001333

SAMPLE NUMBER:		099033			099047			099051			099059			099070		
LAB:								IT/MWL								
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ZINC	MG/L							0.0050		U						
PESTICIDES																
4,4'-DDD	UG/L													0.1000		U
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.1000		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.1000		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
GROSS ALPHA	PCI/L				484.0000	61	NV									
GROSS BETA	PCI/L				175.0000	19	NV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			

001334

0204

SAMPLE NUMBER:	099033	099047	099051	099059	099070
LAB:				IT-KNOX	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										50.0000		UJ			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		UJ			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										50.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		U			
3-NITROANILINE	UG/L										50.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		UJ			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										50.0000		U			
4-NITROPHENOL	UG/L										50.0000		U			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U			
BENZO(K)FLUORANTHENE	UG/L										10.0000		U			
BENZOIC ACID	UG/L										50.0000		U			
BENZYL ALCOHOL	UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		UJ			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		UJ			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		U			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		U			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		U			

SAMPLE NUMBER:	099033			099047			099051			099059			099070		
LAB:										IT-KNOX					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
HEXACHLOROBUTADIENE UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		U			
HEXACHLOROETHANE UG/L										10.0000		UJ			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE UG/L										10.0000		U			
NAPHTHALENE UG/L										10.0000		UJ			
NITROBENZENE UG/L										10.0000		U			
P-CHLOROANILINE UG/L										10.0000		U			
PENTACHLOROPHENOL UG/L										50.0000		U			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		U			
PYRENE UG/L										10.0000		U			
TRIBUTYL PHOSPHATE UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	099084	046662	046663	046664	120111
TASK:	50.03.07	3.7	3.7	3.7	50.03.23
LAB:	IT/RSL	IT	IT	IT	FERMCO
WELL OR BORING NUMBER:	1150	1151	1151	1151	1151
DEPTH:	-	-	-	-	-
DATE COLLECTED:	20-NOV-92	26-OCT-89	26-OCT-89	16-FEB-90	11-JUN-93
NORTH COORDINATE:	480419.86	480443.07	480443.07	480443.07	480443.07
EAST COORDINATE:	1380749.86	1381171.66	1381171.66	1381171.66	1381171.66
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							0.8700		-	0.1400		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	188.00085		R												
URANIUM, TOTAL	UG/L	555.00082		-	240.0000	42	J				94.9000	10.1	-			
URANIUM-234	PCI/L	185.00084		R												
RADIUM-226	PCI/L	1.0000		UJ												
URANIUM-235/236	PCI/L	8.1200	2.12	R												
RADIUM-228	PCI/L	3.0000		UJ												
NEPTUNIUM-237	PCI/L	0.5000		UJ												
PLUTONIUM-239/240	PCI/L	0.5000		UJ												
PLUTONIUM-238	PCI/L	0.5000		UJ												
STRONTIUM-90	PCI/L	1.6000		UJ												
TECHNETIUM-99	PCI/L	15.0000		UJ												
RUTHENIUM-106	PCI/L	150.0000		UJ												
CESIUM-137	PCI/L	17.0000		UJ												
GROSS ALPHA	PCI/L	319.00004		NV										76.0000		UNV
GROSS BETA	PCI/L	125.00005		NV										320.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120112			120113			120221			120222			120223	
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23	
LAB:		FERMCO			DATACHEM			CORE			FERMCO			DATACHEM	
WELL OR BORING NUMBER:		1151			1151			1151			1151			1151	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		11-JUN-93			11-JUN-93			15-JUN-93			15-JUN-93			15-JUN-93	
NORTH COORDINATE:		480443.07			480443.07			480443.07			480443.07			480443.07	
EAST COORDINATE:		1381171.66			1381171.66			1381171.66			1381171.66			1381171.66	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
ALKALINITY AS CACO3	MG/L				290.0000		-								
AMMONIA	MG/L				0.0500		U								
CHLORIDE	MG/L				43.0000		-								
FLUORIDE	MG/L				0.6000		-								
NITRATE/NITRITE	MG/L				0.0500		U								
PHENOLS	MG/L				0.0020		U								
PHOSPHORUS	MG/L				0.1800		-								
SULFATE	MG/L				400.0000		-								
SULFIDE	MG/L				1.0000		U								
TOTAL ORGANIC CARBON	MG/L				1.0000		U								
TOTAL ORGANIC HALIDES	MG/L				0.0100		U								
INORGANICS															
ALUMINUM	MG/L				17.8000		-							0.0600		U
ANTIMONY	MG/L				0.0157		U							0.0157		U
ARSENIC	MG/L				0.0044		-							0.0020		U
BARIUM	MG/L				0.0990		-							0.0241		-
BERYLLIUM	MG/L				0.0026		U							0.0008		U
CADMIUM	MG/L				0.0014		-							0.0012		U
CALCIUM	MG/L				172.0000		-							135.0000		-
CHROMIUM	MG/L				0.0295		-							0.0031		U
COBALT	MG/L				0.0156		U							0.0034		U
COPPER	MG/L				0.0303		-							0.0034		-
CYANIDE	MG/L				0.0100		U							0.0100		U
IRON	MG/L				28.1000		-							0.0121		U
LEAD	MG/L				0.0147		-							0.0010		U
MAGNESIUM	MG/L				110.0000		-							99.4000		-
MANGANESE	MG/L				0.6730		-							0.0036		-
MERCURY	MG/L				0.0002		U							0.0002		U

SAMPLE NUMBER:		120112			120113			120221			120222			120223		
LAB:					DATACHEM									DATACHEM		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L				0.0344		-							0.0070		U
POTASSIUM	MG/L				7.9700		-							3.2500		-
SELENIUM	MG/L				0.0010		UJ							0.0010		UJ
SILVER	MG/L				0.0029		UJ							0.0029		UJ
SODIUM	MG/L				28.2000		-							29.6000		-
THALLIUM	MG/L				0.0010		U							0.0010		U
VANADIUM	MG/L				0.0297		-							0.0029		U
ZINC	MG/L				0.2410		J							0.0084		-
RADIONUCLIDES																
URANIUM-238	PCI/L							3.8000	.6	J						
URANIUM, TOTAL	UG/L	22.0000		NV				14.8000	1	-	14.0000		NV			
URANIUM-234	PCI/L							4.8000	.7	J						
THORIUM-230	PCI/L							0.4000	.3	J						
RADIUM-226	PCI/L							1.5000	.4	-						
URANIUM-235/236	PCI/L							0.2000	.2	UJ						
THORIUM-232	PCI/L							0.2000	.3	UJ						
RADIUM-228	PCI/L							3.0000	1.4	UJ						
THORIUM-228	PCI/L							0.2000	.8	UJ						
TECHNETIUM-99	PCI/L							15.0000	7.2	U						
GROSS ALPHA	PCI/L							3.7000	2.2	UNV						
GROSS BETA	PCI/L							5.8000	2	NV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHENE	UG/L				10.0000		U									
1,2-DICHLOROETHANE	UG/L				10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U									
1,2-DICHLOROPROPANE	UG/L				10.0000		U									
2-BUTANONE	UG/L				10.0000		U									
2-HEXANONE	UG/L				10.0000		U									
4-METHYL-2-PENTANONE	UG/L				10.0000		U									
ACETONE	UG/L				10.0000		U									
BENZENE	UG/L				10.0000		U									
BROMODICHLOROMETHANE	UG/L				10.0000		U									
BROMOFORM	UG/L				10.0000		U									
BROMOMETHANE	UG/L				10.0000		U									
CARBON DISULFIDE	UG/L				10.0000		U									
CARBON TETRACHLORIDE	UG/L				10.0000		U									
CHLOROBENZENE	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045432			118583			118585			118587			118587F		
TASK:		3.7			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		IT			DATACHEM			CORE			FERMCO			FERMCO		
WELL OR BORING NUMBER:		1152			1152			1152			1152			1152		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		18-JUL-90			11-JUN-93			11-JUN-93			11-JUN-93			11-JUN-93		
NORTH COORDINATE:		480411.02			480411.02			480411.02			480411.02			480411.02		
EAST COORDINATE:		1382105.62			1382105.62			1382105.62			1382105.62			1382105.62		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				380.0000		-									
AMMONIA	MG/L				0.3700		-									
CHLORIDE	MG/L				4.2000		-									
FLUORIDE	MG/L				0.3000		-									
NITRATE	MG/L	0.1000		UJ												
NITRATE/NITRITE	MG/L				0.0500		U									
PHENOLS	MG/L				0.0020		U									
PHOSPHORUS	MG/L				0.1800		-									
SULFATE	MG/L				85.0000		-									
SULFIDE	MG/L				1.0000		U									
TOTAL ORGANIC CARBON	MG/L				2.0000		-									
TOTAL ORGANIC HALIDES	MG/L				0.0100		U									
INORGANICS																
ALUMINUM	MG/L				0.0767		-									
ANTIMONY	MG/L				0.0157		UJ									
ARSENIC	MG/L				0.0086		J									
BARIUM	MG/L				0.9900		J									
BERYLLIUM	MG/L				0.0100		J									
CADMIUM	MG/L				0.0012		UJ									
CALCIUM	MG/L				926.0000		J									
CHROMIUM	MG/L				0.2600		J									
COBALT	MG/L				0.1480		J									
COPPER	MG/L				0.2650		J									
CYANIDE	MG/L				0.0100		U									
IRON	MG/L				306.0000		J									
LEAD	MG/L				0.1030		J									
MAGNESIUM	MG/L				297.0000		J									
MANGANESE	MG/L				5.4000		J									

SAMPLE NUMBER:		045432			118583		118585			118587			118587F		
LAB:					DATACHEM										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L				0.0003		J									
NICKEL	MG/L				0.0100		-									
POTASSIUM	MG/L				28.4000		J									
SELENIUM	MG/L				0.0100		UJ									
SILVER	MG/L				0.0029		UJ									
SODIUM	MG/L				9.6100		-									
THALLIUM	MG/L				0.0010		UJ									
VANADIUM	MG/L				0.3040		J									
ZINC	MG/L				0.0052		-									
RADIONUCLIDES																
URANIUM-238	PCI/L							3.5000	.8	J						
URANIUM, TOTAL	UG/L							2.4000	.2	-	12.0000		NV	13.0000		NV
URANIUM-234	PCI/L							0.8000	.8	R						
THORIUM-230	PCI/L							0.5000	.3	R						
RADIUM-226	PCI/L							1.0000	.3	U						
URANIUM-235/236	PCI/L							0.2000	.5	R						
THORIUM-232	PCI/L							0.2000	.4	R						
THORIUM, TOTAL	UG/L							0.9120	.3	NV						
RADIUM-228	PCI/L							7.2000	1.6	-						
THORIUM-228	PCI/L							0.2000	.9	UJ						
TECHNETIUM-99	PCI/L							48.5000	9	J						
GROSS ALPHA	PCI/L							117.0000	24.3	NV						
GROSS BETA	PCI/L							4.3000	2.6	NV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHENE	UG/L				10.0000		U									
1,2-DICHLOROETHANE	UG/L				10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U									
1,2-DICHLOROPROPANE	UG/L				10.0000		U									
2-BUTANONE	UG/L				10.0000		U									
2-HEXANONE	UG/L				10.0000		U									
4-METHYL-2-PENTANONE	UG/L				10.0000		U									
ACETONE	UG/L				10.0000		U									
BENZENE	UG/L				10.0000		U									
BROMODICHLOROMETHANE	UG/L				10.0000		U									
BROMOFORM	UG/L				10.0000		U									
BROMOMETHANE	UG/L				10.0000		U									
CARBON DISULFIDE	UG/L				10.0000		U									

001341

SAMPLE NUMBER:	045432	118583	118585	118587	118587F
LAB:		DATACHEM			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CARBON TETRACHLORIDE	UG/L				10.0000		UJ									
CHLOROBENZENE	UG/L				10.0000		U									
CHLOROETHANE	UG/L				10.0000		U									
CHLOROFORM	UG/L				10.0000		U									
CHLOROMETHANE	UG/L				10.0000		UJ									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
TRICHLOROETHENE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045305	045306	045666	045667	062954
TASK:	3.7	3.7	3.7	3.7	04.23
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1153	1153	1153	1153	1153
DEPTH:	-	-	-	-	-
DATE COLLECTED:	08-OCT-89	08-OCT-89	10-JAN-90	10-JAN-90	30-JUN-92
NORTH COORDINATE:	480301.97	480301.97	480301.97	480301.97	480301.97
EAST COORDINATE:	1381241.64	1381241.64	1381241.64	1381241.64	1381241.64
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
LBPH AS GASOLINE	DEGREES										0.0500		U			
NITRATE	MG/L				0.2920		-				0.2300		-			
INORGANICS																
CYANIDE	MG/L													0.0020		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	44.70006.4		-				129.0000	18	-						
THORIUM, TOTAL	UG/L							10.6000	5.8	-						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		U
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U

001343

SAMPLE NUMBER:	045305			045306			045666			045667			062954		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
2-NITROPHENOL UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE UG/L													20.0000		U
3-NITROANILINE UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER UG/L													10.0000		U
4-METHYLPHENOL UG/L													10.0000		U
4-NITROANILINE UG/L													50.0000		U
4-NITROPHENOL UG/L													50.0000		U
ACENAPHTHENE UG/L													10.0000		U
ACENAPHTHYLENE UG/L													10.0000		U
ANTHRACENE UG/L													10.0000		U
BENZO(A)ANTHRACENE UG/L													10.0000		U
BENZO(A)PYRENE UG/L													10.0000		U
BENZO(B)FLUORANTHENE UG/L													10.0000		U
BENZO(G,H,I)PERYLENE UG/L													10.0000		U
BENZO(K)FLUORANTHENE UG/L													10.0000		U
BENZOIC ACID UG/L													50.0000		U
BENZYL ALCOHOL UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		U
BUTYL BENZYL PHTHALATE UG/L													10.0000		U
CARBAZOLE UG/L													10.0000		U
CHRYSENE UG/L													10.0000		U
DI-N-BUTYL PHTHALATE UG/L													10.0000		U
DI-N-OCTYL PHTHALATE UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		U
DIBENZOFURAN UG/L													10.0000		U
DIETHYL PHTHALATE UG/L													10.0000		U
DIMETHYL PHTHALATE UG/L													10.0000		U
FLUORANTHENE UG/L													10.0000		U
FLUORENE UG/L													10.0000		U
HEXACHLOROBENZENE UG/L													10.0000		U
HEXACHLOROBUTADIENE UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		UJ
HEXACHLOROETHANE UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		U
ISOPHORONE UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		U
N-NITROSODIPHENYLAMINE UG/L													10.0000		U
NAPHTHALENE UG/L													10.0000		U
NITROBENZENE UG/L													10.0000		U

SAMPLE NUMBER:		045305			045306			045666			045667			062954		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													50.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													70.0000		U
PYRENE	UG/L													10.0000		U
TRIBUTYL PHOSPHATE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													5.0000		U
1,1,2-TRICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHENE	UG/L													5.0000		U
1,2-DICHLOROETHANE	UG/L													5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													5.0000		U
1,2-DICHLOROPROPANE	UG/L													5.0000		U
2-BUTANONE	UG/L													10.0000		UJ
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L													5.0000		U
BROMODICHLOROMETHANE	UG/L													5.0000		U
BROMOFORM	UG/L													5.0000		U
BROMOMETHANE	UG/L													10.0000		UJ
CARBON DISULFIDE	UG/L													5.0000		U
CARBON TETRACHLORIDE	UG/L													5.0000		U
CHLOROBENZENE	UG/L													5.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													5.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		U
METHYLENE CHLORIDE	UG/L													5.0000		U
STYRENE	UG/L													5.0000		U
TETRACHLOROETHENE	UG/L													5.0000		U
TOLUENE	UG/L													5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
TRICHLOROETHENE	UG/L													5.0000		U
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062955	062967	045138	045434	045435
TASK:	04.23	04.23	3.7	3.7	3.7
LAB:	FERMCO	IT	WMCO	IT	IT
WELL OR BORING NUMBER:	1153	1153	1154	1154	1154
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-JUL-92	01-JUL-92	05-MAY-89	18-OCT-89	18-OCT-89
NORTH COORDINATE:	480301.97	480301.97	480206.13	480206.13	480206.13
EAST COORDINATE:	1381241.64	1381241.64	1380744.14	1380744.14	1380744.14
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													0.1000		U
INORGANICS																
ALUMINUM	MG/L				0.0300		U									
ANTIMONY	MG/L				0.0300		UJ									
ARSENIC	MG/L				0.0020		U									
BARIUM	MG/L				0.0645		-									
BERYLLIUM	MG/L				0.0020		U									
CADMIUM	MG/L				0.0050		UJ									
CALCIUM	MG/L				130.0000		-									
CHROMIUM	MG/L				0.0100		UJ									
COBALT	MG/L				0.0100		U									
COPPER	MG/L				0.0100		U									
IRON	MG/L				0.0200		U									
LEAD	MG/L				0.0020		U									
MAGNESIUM	MG/L				39.7000		-									
MANGANESE	MG/L				0.2620		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.0200		U									
NICKEL	MG/L				0.0200		U									
POTASSIUM	MG/L				1.1300		-									
SELENIUM	MG/L				0.0020		U									
SILICON	MG/L				11.0000		-									
SILVER	MG/L				0.0100		UJ									
SODIUM	MG/L				27.1000		-									
THALLIUM	MG/L				0.0020		U									
VANADIUM	MG/L				0.0100		U									
ZINC	MG/L				0.0050		U									

PESTICIDES																	
4,4'-DDD	UG/L				0.1000		U										
06/20/94																	

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 694

SAMPLE NUMBER:		062955			062967			045138			045434			045435			
LAB:					IT												
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																	
4,4'-DDE	UG/L				0.1000		U										
4,4'-DDT	UG/L				0.1000		U										
ALDRIN	UG/L				0.0500		U										
ALPHA-BHC	UG/L				0.0500		U										
ALPHA-CHLORDANE	UG/L				0.5000		U										
AROCLOR-1016	UG/L				0.5000		U										
AROCLOR-1221	UG/L				0.5000		U										
AROCLOR-1232	UG/L				0.5000		U										
AROCLOR-1242	UG/L				0.5000		U										
AROCLOR-1248	UG/L				0.5000		U										
AROCLOR-1254	UG/L				1.0000		U										
AROCLOR-1260	UG/L				1.0000		U										
BETA-BHC	UG/L				0.0500		U										
DELTA-BHC	UG/L				0.0500		U										
DIELDRIN	UG/L				0.1000		U										
ENDOSULFAN II	UG/L				0.1000		U										
ENDOSULFAN SULFATE	UG/L				0.1000		U										
ENDOSULFAN-I	UG/L				0.0500		U										
ENDRIN	UG/L				0.1000		U										
ENDRIN KETONE	UG/L				0.1000		U										
GAMMA-BHC (LINDANE)	UG/L				0.0500		U										
GAMMA-CHLORDANE	UG/L				0.5000		U										
HEPTACHLOR	UG/L				0.0500		U										
HEPTACHLOR EPOXIDE	UG/L				0.0500		U										
METHOXYCHLOR	UG/L				0.5000		U										
TOXAPHENE	UG/L				1.0000		U										
RADIONUCLIDES																	
URANIUM-238	PCI/L							98.0000		NV							
URANIUM, TOTAL	UG/L	5.5000		NV				200.0000		NV	217.0000	34	-				
URANIUM-234	PCI/L							68.0000		NV							
URANIUM-235	PCI/L							4.5000		NV							
URANIUM-236	PCI/L							0.7200		NV							

001347

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045436			098904			098905			098995			098996		
TASK:		3.7			50.03.07			50.03.07			50.03.07			50.03.07		
LAB:		IT			IT			WEMCO			IT			IT		
WELL OR BORING NUMBER:		1154			1154			1154			1154			1154		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		01-FEB-90			12-JUN-92			12-JUN-92			28-OCT-92			28-OCT-92		
NORTH COORDINATE:		480206.13			480206.13			480206.13			480206.13			480206.13		
EAST COORDINATE:		1380744.14			1380744.14			1380744.14			1380744.14			1380744.14		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			DUPLICATE		
QC OF:											098996			098995		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L				46.6000		NV									
FLUORIDE	MG/L				0.2200		NV									
NITRATE	MG/L	0.1000		U	4.6500		NV									
PHENOLS	MG/L				0.0100		UNV									
PHOSPHORUS	MG/L				1.0070		NV									
SULFATE	MG/L				85.1000		NV									
SULFIDE	MG/L				0.5000		UNV									
TOTAL ORGANIC CARBON	MG/L				1.2500		NV				1.5500		NV	2.2400		-
TOTAL ORGANIC HALIDES	MG/L				0.2250		NV				305.4000		-	174.7000		-
TOTAL ORGANIC NITROGEN	MG/L				0.1700		NV									
INORGANICS																
ALUMINUM	MG/L				0.0787		-									
ARSENIC	MG/L				0.0020		U									
BARIUM	MG/L				0.0702		-									
CADMIUM	MG/L				0.0050		U									
CALCIUM	MG/L				121.0000		-									
CHROMIUM	MG/L				0.0100		U									
COPPER	MG/L				0.0100		U									
IRON	MG/L				0.0923		-									
LEAD	MG/L				0.0020		U									
MAGNESIUM	MG/L				32.1000		-									
MANGANESE	MG/L				0.0148		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.0200		U									
NICKEL	MG/L				0.0200		U									
POTASSIUM	MG/L				1.2800		-									
SELENIUM	MG/L				0.0030		UJ									
SILICON	MG/L				6.3900		-									

SAMPLE NUMBER:		045436			098904			098905			098995			098996		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L				0.0100		UJ									
SODIUM	MG/L				28.9000		-									
VANADIUM	MG/L				0.0100		U									
RADIONUCLIDES																
URANIUM-238	PCI/L				105.0000	14	-									
URANIUM, TOTAL	UG/L				365.0000	54	-	200.0000		NV						
URANIUM-234	PCI/L				95.5000	13.1	-									
THORIUM-230	PCI/L				0.4000		UJ									
RADIUM-226	PCI/L				1.0000		UJ									
URANIUM-235/236	PCI/L				9.9700	2.42	-									
THORIUM-232	PCI/L				0.4000		UJ									
THORIUM, TOTAL	UG/L				3.3000		UJ									
RADIUM-228	PCI/L				2.0000		R									
THORIUM-228	PCI/L				1.0000	.5	J									
PLUTONIUM-239/240	PCI/L				0.5000		UJ									
PLUTONIUM-238	PCI/L				0.5000		UJ									
STRONTIUM-90	PCI/L				3.1900	.72	J									
TECHNETIUM-99	PCI/L				12.0000		R									
RUTHENIUM-106	PCI/L				150.0000		UJ									
CESIUM-137	PCI/L				16.0000		UJ									
GROSS ALPHA	PCI/L				247.0000	36	NV									
GROSS BETA	PCI/L				69.7000	10.6	NV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U				5.0000		U	5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		UR				5.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U				5.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L				5.0000		U				5.0000		U	5.0000		U
1,1-DICHLOROETHENE	UG/L				5.0000		U				5.0000		U	5.0000		U
1,2-DICHLOROETHANE	UG/L				10.0000		UR				5.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				320.0000		R				180.0000		-	310.0000		-
1,2-DICHLOROPROPANE	UG/L				5.0000		U				5.0000		U	5.0000		U
2-BUTANONE	UG/L				10.0000		UJ				10.0000		UJ	10.0000		UJ
2-HEXANONE	UG/L				20.0000		UR				10.0000		UJ	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ				10.0000		UJ	10.0000		UJ
ACETONE	UG/L				10.0000		U				10.0000		UJ	15.0000		J
BENZENE	UG/L				5.0000		U				5.0000		U	5.0000		U
BROMODICHLOROMETHANE	UG/L				10.0000		UR				5.0000		U	5.0000		U
BROMOFORM	UG/L				5.0000		U				5.0000		U	5.0000		U
BROMOMETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L				5.0000		U				5.0000		U	5.0000		U
CARBON TETRACHLORIDE	UG/L				10.0000		UR				5.0000		U	5.0000		U

SAMPLE NUMBER:	045436			098904		098905			098995			098996		
LAB:				IT					IT			IT		
SUFFIX/FILTERFLAG:	-			DL-UNF		-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROBENZENE	UG/L				5.0000		U				5.0000		U	5.0000		U
CHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
CHLOROFORM	UG/L				5.0000		U				5.0000		U	5.0000		U
CHLOROMETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				5.0000		U	5.0000		U
DIBROMOCHLOROMETHANE	UG/L				5.0000		U				5.0000		U	5.0000		U
ETHYLBENZENE	UG/L				5.0000		U				5.0000		U	5.0000		U
METHYLENE CHLORIDE	UG/L				11.0000		R				5.0000		UJ	6.0000		UJ
STYRENE	UG/L				10.0000		UR				5.0000		U	5.0000		U
TETRACHLOROETHENE	UG/L				5.0000		U				5.0000		U	5.0000		U
TOLUENE	UG/L				5.0000		U				5.0000		U	5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L				120.0000		R				170.0000		-	160.0000		-
VINYL ACETATE	UG/L				10.0000		U				10.0000		UJ	10.0000		UJ
VINYL CHLORIDE	UG/L				20.0000		UR				10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L				10.0000		UR				5.0000		U	5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		099031			099032			099045			099046			099049			
TASK:		50.03.07			50.03.07			50.03.07			50.03.07			50.03.07			
LAB:		IT-KNOX			IT			IT			IT			IT/MWL			
WELL OR BORING NUMBER:		1154			1154			1154			1154			1154			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		04-NOV-92			04-NOV-92			05-NOV-92			05-NOV-92			06-NOV-92			
NORTH COORDINATE:		480206.13			480206.13			480206.13			480206.13			480206.13			
EAST COORDINATE:		1380744.14			1380744.14			1380744.14			1380744.14			1380744.14			
QA TYPE:		NORMAL			DUPLICATE			NORMAL			DUPLICATE			NORMAL			
QC OF:		099032			099031			099046			099045			099050			
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-FIL			NONE-FIL			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
NITRATE	MG/L	0.1000		UJ	0.1000		UJ										
PHENOLS	MG/L							0.0100		U	0.0100		U				
SULFIDE	MG/L	0.5000		U	0.6200		-										
INORGANICS																	
ALUMINUM	MG/L													0.0596		U	
ANTIMONY	MG/L													0.0050		U	
ARSENIC	MG/L													0.0025		U	
BARIUM	MG/L													0.0558		-	
BERYLLIUM	MG/L													0.0020		U	
CADMIUM	MG/L													0.0050		U	
CALCIUM	MG/L													104.0000		-	
CHROMIUM	MG/L													0.0100		U	
COBALT	MG/L													0.0100		U	
COPPER	MG/L													0.0100		U	
IRON	MG/L													0.0200		U	
LEAD	MG/L													0.0025		U	
MAGNESIUM	MG/L													24.4000		-	
MANGANESE	MG/L													0.0611		-	
MERCURY	MG/L													0.0002		U	
MOLYBDENUM	MG/L													0.0200		U	
NICKEL	MG/L													0.0200		U	
POTASSIUM	MG/L													1.7400		-	
SELENIUM	MG/L													0.0020		U	
SILICON	MG/L													6.2500		-	
SILVER	MG/L													0.0100		U	
SODIUM	MG/L													28.0000		-	
THALLIUM	MG/L													0.0020		U	
VANADIUM	MG/L													0.0100		U	

001351

SAMPLE NUMBER:		099031			099032			099045			099046			099049		
LAB:														IT/MWL		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ZINC	MG/L													0.0094		-
RADIONUCLIDES																
GROSS ALPHA	PCI/L							261.0000	39	NV	192.0000	31	NV			
GROSS BETA	PCI/L							60.3000	8.3	NV	64.4000	8.5	NV			

SAMPLE NUMBER:		099050			099057			099058			099068			099069		
LAB:											IT/MWL			IT/MWL		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES					-											
4,4'-DDT	UG/L										0.1000		U	0.1000		U
ALDRIN	UG/L										0.0500		U	0.0500		U
ALPHA-BHC	UG/L										0.0500		U	0.0500		U
ALPHA-CHLORDANE	UG/L										0.5000		U	0.5000		U
AROCLOR-1016	UG/L										0.5000		U	0.5000		U
AROCLOR-1221	UG/L										0.5000		U	0.5000		U
AROCLOR-1232	UG/L										0.5000		U	0.5000		U
AROCLOR-1242	UG/L										0.5000		U	0.5000		U
AROCLOR-1248	UG/L										0.5000		U	0.5000		U
AROCLOR-1254	UG/L										1.0000		U	1.0000		U
AROCLOR-1260	UG/L										1.0000		U	1.0000		U
BETA-BHC	UG/L										0.0500		U	0.0500		U
DELTA-BHC	UG/L										0.0500		U	0.0500		U
DIELDRIN	UG/L										0.1000		U	0.1000		U
ENDOSULFAN II	UG/L										0.1000		U	0.1000		U
ENDOSULFAN SULFATE	UG/L										0.1000		U	0.1000		U
ENDOSULFAN-I	UG/L										0.0500		U	0.0500		U
ENDRIN	UG/L										0.1000		U	0.1000		U
ENDRIN KETONE	UG/L										0.1000		U	0.1000		U
GAMMA-BHC (LINDANE)	UG/L										0.0500		U	0.0500		U
GAMMA-CHLORDANE	UG/L										0.5000		U	0.5000		U
HEPTACHLOR	UG/L										0.0500		U	0.0500		U
HEPTACHLOR EPOXIDE	UG/L										0.0500		U	0.0500		U
METHOXYCHLOR	UG/L										0.5000		U	0.5000		U
TOXAPHENE	UG/L										1.0000		U	1.0000		U
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
1,2-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
1,3-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
1,4-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U	50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U	10.0000		U						
2,4-DICHLOROPHENOL	UG/L				10.0000		U	10.0000		U						
2,4-DIMETHYLPHENOL	UG/L				10.0000		U	10.0000		U						
2,4-DINITROPHENOL	UG/L				50.0000		UJ	50.0000		UJ						
2,4-DINITROTOLUENE	UG/L				10.0000		U	10.0000		U						
2,6-DINITROTOLUENE	UG/L				10.0000		U	10.0000		U						
2-CHLORONAPHTHALENE	UG/L				10.0000		U	10.0000		U						
2-CHLOROPHENOL	UG/L				10.0000		UJ	10.0000		UJ						
2-METHYLNAPHTHALENE	UG/L				10.0000		U	10.0000		U						
2-METHYLPHENOL	UG/L				10.0000		U	10.0000		U						
2-NITROANILINE	UG/L				50.0000		U	50.0000		U						
2-NITROPHENOL	UG/L				10.0000		U	10.0000		U						

SAMPLE NUMBER:	120217F			120218			120218F			120219			120219F		
LAB:				DATACHEM			DATACHEM								
SUFFIX/FILTERFLAG:	-			NONE-UNF			NONE-FIL			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
NICKEL MG/L				0.0427		U	0.0085		U						
POTASSIUM MG/L				5.1100		-	1.2500		-						
SELENIUM MG/L				0.0020		UJ	0.0020		UJ						
SILVER MG/L				0.0029		UJ	0.0029		UJ						
SODIUM MG/L				8.0900		-	7.4400		-						
THALLIUM MG/L				0.0010		U	0.0010		U						
VANADIUM MG/L				0.0332		-	0.0029		U						
ZINC MG/L				0.0822		-	0.0040		U						
RADIONUCLIDES															
URANIUM-238 PCI/L										14.6000	1.9	J	11.5000	2	J
URANIUM, TOTAL UG/L	36.0000		NV							35.0000	2.4	-	30.1000	2.1	-
URANIUM-234 PCI/L										12.1000	1.6	J	11.8000	1.6	J
THORIUM-230 PCI/L										0.8000	.3	J	0.3000	.2	UJ
RADIUM-226 PCI/L										1.3000	.5	-	1.0000	.2	U
URANIUM-235/236 PCI/L										1.3000	.5	J	0.5000	.4	J
THORIUM-232 PCI/L										0.8000	.4	J	0.2000	.3	UJ
THORIUM, TOTAL UG/L										7.2961	.4	NV			
RADIUM-228 PCI/L										3.0000	1.4	U	3.0000	1.3	U
THORIUM-228 PCI/L										0.8000	.4	J	0.2000	.4	UJ
TECHNETIUM-99 PCI/L										52.0000	9.5	J	15.1000	9	UJ
GROSS ALPHA PCI/L										53.3000	8.6	NV	14.2000	4.1	NV
GROSS BETA PCI/L										84.7000	7.8	NV	9.7000	3.1	NV
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L				10.0000		U									
1,1,2,2-TETRACHLOROETHANE UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE UG/L				10.0000		U									
1,1-DICHLOROETHANE UG/L				10.0000		U									
1,1-DICHLOROETHENE UG/L				10.0000		U									
1,2-DICHLOROETHANE UG/L				10.0000		U									
1,2-DICHLOROETHENE (TOTAL) UG/L				10.0000		U									
1,2-DICHLOROPROPANE UG/L				10.0000		U									
2-BUTANONE UG/L				10.0000		U									
2-HEXANONE UG/L				10.0000		U									
4-METHYL-2-PENTANONE UG/L				10.0000		U									
ACETONE UG/L				10.0000		U									
BENZENE UG/L				10.0000		U									
BROMODICHLOROMETHANE UG/L				10.0000		U									
BROMOFORM UG/L				10.0000		U									
BROMOMETHANE UG/L				10.0000		U									
CARBON DISULFIDE UG/L				10.0000		U									
CARBON TETRACHLORIDE UG/L				10.0000		UJ									

SAMPLE NUMBER:		120217F			120218			120218F			120219			120219F		
LAB:					DATACHEM											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROBENZENE	UG/L				10.0000		U									
CHLOROETHANE	UG/L				10.0000		U									
CHLOROFORM	UG/L				10.0000		U									
CHLOROMETHANE	UG/L				10.0000		UJ									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
TRICHLOROETHENE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062956				062957				045132				045149				045681		
TASK:	04.23				04.23				3.7				3.7				3.7		
LAB:	IT				WEMCO				IT				WMCO				IT		
WELL OR BORING NUMBER:	1158				1158				1160				1160				1160		
DEPTH:	-				-				-				-				-		
DATE COLLECTED:	30-JUN-92				30-JUN-92				14-APR-89				05-MAY-89				05-NOV-89		
NORTH COORDINATE:	480210.55				480210.55				480183.25				480183.25				480183.25		
EAST COORDINATE:	1381229.23				1381229.23				1382104.51				1382104.51				1382104.51		
QA TYPE:	NORMAL				NORMAL				NORMAL				NORMAL				NORMAL		
QC OF:																			
SUFFIX/FILTERFLAG:	NONE-UNF				NONE-FIL				NONE-UNF				NONE-UNF				NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)			
GENERAL CHEMISTRY																			
OIL AND GREASE	%							1.6200		J									
INORGANICS																			
ALUMINUM	MG/L	0.0300		U															
ANTIMONY	MG/L	0.0300		UJ															
ARSENIC	MG/L	0.0020		U															
BARIUM	MG/L	0.0739		-															
BERYLLIUM	MG/L	0.0020		U															
CADMIUM	MG/L	0.0050		UJ															
CALCIUM	MG/L	106.0000		-															
CHROMIUM	MG/L	0.0100		UJ															
COBALT	MG/L	0.0100		U															
COPPER	MG/L	0.0100		U															
CYANIDE	MG/L	0.0020		U															
IRON	MG/L	0.0200		U															
LEAD	MG/L	0.0020		UJ															
MAGNESIUM	MG/L	34.9000		-															
MANGANESE	MG/L	0.1370		-															
MERCURY	MG/L	0.0002		U															
MOLYBDENUM	MG/L	0.0200		U															
NICKEL	MG/L	0.0200		U															
POTASSIUM	MG/L	0.5730		-															
SELENIUM	MG/L	0.0020		UJ															
SILICON	MG/L	8.7600		-															
SILVER	MG/L	0.0100		UJ															
SODIUM	MG/L	16.4000		-															
THALLIUM	MG/L	0.0020		U															
VANADIUM	MG/L	0.0100		U															
ZINC	MG/L	0.0052		-															

SAMPLE NUMBER:		062956		062957		045132		045149		045681	
LAB:		IT									
SUFFIX/FILTERFLAG:		F-FIL		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
PESTICIDES											
4,4'-DDD	UG/L	0.1000	U								
4,4'-DDE	UG/L	0.1000	U								
4,4'-DDT	UG/L	0.1000	U								
ALDRIN	UG/L	0.0500	U								
ALPHA-BHC	UG/L	0.0500	U								
ALPHA-CHLORDANE	UG/L	0.5000	U								
AROCLOR-1016	UG/L	0.5000	U								
AROCLOR-1221	UG/L	0.5000	U								
AROCLOR-1232	UG/L	0.5000	U								
AROCLOR-1242	UG/L	0.5000	U								
AROCLOR-1248	UG/L	0.5000	U								
AROCLOR-1254	UG/L	1.0000	U								
AROCLOR-1260	UG/L	1.0000	U								
BETA-BHC	UG/L	0.0500	U								
DELTA-BHC	UG/L	0.0500	U								
DIELDRIN	UG/L	0.1000	U								
ENDOSULFAN II	UG/L	0.1000	U								
ENDOSULFAN SULFATE	UG/L	0.1000	U								
ENDOSULFAN-I	UG/L	0.0500	U								
ENDRIN	UG/L	0.1000	U								
ENDRIN KETONE	UG/L	0.1000	U								
GAMMA-BHC (LINDANE)	UG/L	0.0500	U								
GAMMA-CHLORDANE	UG/L	0.5000	U								
HEPTACHLOR	UG/L	0.0500	U								
HEPTACHLOR EPOXIDE	UG/L	0.0500	U								
METHOXYCHLOR	UG/L	0.5000	U								
TOXAPHENE	UG/L	1.0000	U								
RADIONUCLIDES											
URANIUM-238	PCI/L							2.8000	NV		
URANIUM, TOTAL	UG/L			4.3000	NV			8.3000	NV	17.0000 3	-
URANIUM-234	PCI/L							2.5000	NV		
URANIUM-235	PCI/L							0.1300	NV		
URANIUM-236	PCI/L							0.0050	NV		
SEMIVOLATILES											
1,2,4-TRICHLOROBENZENE	UG/L	10.0000	U								
1,2-DICHLOROBENZENE	UG/L	10.0000	U								
1,3-DICHLOROBENZENE	UG/L	10.0000	U								
1,4-DICHLOROBENZENE	UG/L	10.0000	U								
2,4,5-TRICHLOROPHENOL	UG/L	50.0000	U								
2,4,6-TRICHLOROPHENOL	UG/L	10.0000	U								
2,4-DICHLOROPHENOL	UG/L	10.0000	U								

SAMPLE NUMBER:		062956		062957		045132		045149		045681	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
HEXACHLOROBUTADIENE	UG/L	10.0000	U								
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	UJ								
HEXACHLOROETHANE	UG/L	10.0000	U								
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U								
ISOPHORONE	UG/L	10.0000	U								
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U								
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U								
NAPHTHALENE	UG/L	10.0000	U								
NITROBENZENE	UG/L	10.0000	U								
P-CHLOROANILINE	UG/L	10.0000	U								
PENTACHLOROPHENOL	UG/L	50.0000	U								
PHENANTHRENE	UG/L	10.0000	U								
PHENOL	MG/L	10.0000	U								
PYRENE	UG/L	10.0000	U								
TRIBUTYL PHOSPHATE	UG/L	10.0000	U								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	67.0000	-								
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U								
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U								
1,1-DICHLOROETHANE	UG/L	8.0000	-								
1,1-DICHLOROETHENE	UG/L	5.0000	-								
1,2-DICHLOROETHANE	UG/L	5.0000	U								
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000	U								
1,2-DICHLOROPROPANE	UG/L	5.0000	U								
2-BUTANONE	UG/L	10.0000	UJ								
2-HEXANONE	UG/L	10.0000	U								
4-METHYL-2-PENTANONE	UG/L	10.0000	U								
ACETONE	UG/L	10.0000	UJ								
BENZENE	UG/L	5.0000	U								
BROMODICHLOROMETHANE	UG/L	5.0000	U								
BROMOFORM	UG/L	5.0000	U								
BROMOMETHANE	UG/L	10.0000	UJ								
CARBON DISULFIDE	UG/L	5.0000	U								
CARBON TETRACHLORIDE	UG/L	5.0000	U								
CHLOROBENZENE	UG/L	5.0000	U								
CHLOROETHANE	UG/L	10.0000	U								
CHLOROFORM	UG/L	5.0000	U								
CHLOROMETHANE	UG/L	10.0000	U								
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U								
DIBROMOCHLOROMETHANE	UG/L	5.0000	U								
ETHYLBENZENE	UG/L	5.0000	U								
METHYLENE CHLORIDE	UG/L	5.0000	U								
STYRENE	UG/L	5.0000	U								

001358

5704

SAMPLE NUMBER:	045682			045683			045684			GW930104-8			GW930416-8		
LAB:										NET			DATACHEM		
SUFFIX/FILTERFLAG:	-			-			-			NONE-FIL			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
CALCIUM MG/L										155.0000		NV	387.0000		-
CHROMIUM MG/L										0.0020		UNV	0.0040		U
COBALT MG/L										0.0730		NV	0.0060		U
COPPER MG/L										0.0200		UNV	0.0040		U
CYANIDE MG/L										0.0050		UNV	0.0100		U
IRON MG/L										143.0000		NV	0.0150		U
LEAD MG/L										0.0030		UNV	0.0010		UJ
MAGNESIUM MG/L										54.6000		NV	50.1000		-
MANGANESE MG/L										1.9100		NV	0.0047		U
MERCURY MG/L										0.0002		UNV	0.0002		U
MOLYBDENUM MG/L										0.0100		UNV			
NICKEL MG/L										0.0100		UNV	0.0396		-
POTASSIUM MG/L										7.9000		NV	0.8820		U
SELENIUM MG/L										0.0050		UNV	0.0020		UJ
SILVER MG/L										0.0010		UNV	0.0030		UJ
SODIUM MG/L										9.3000		NV	8.4300		-
THALLIUM MG/L										0.0100		UNV	0.0010		U
VANADIUM MG/L										0.0500		UNV	0.0482		-
ZINC MG/L										0.0200		UNV	0.0060		U
MISC															
1,2,3-TRICHLOROPROPANE UG/L										5.0000		UNV			
1,2-DIBROMO-3-CHLOROPROPANE UG/L										2.0000		UNV			
1,2-DIBROMOETHANE UG/L										2.0000		UNV			
2-CHLORO-1,3-BUTADIENE UG/L										5.0000		UNV			
ACROLEIN UG/L										50.0000		UNV			
ACROLEIN UG/L										50.0000		UNV			
ACRYLONITRILE UG/L										50.0000		UNV			
DICHLORODIFLUOROMETHANE UG/L										10.0000		UNV			
ETHYL CYANIDE UG/L										20.0000		UNV			
ETHYL METHACRYLATE UG/L										5.0000		UNV			
IODOMETHANE UG/L										5.0000		UNV			
METHACRYLONITRILE UG/L										5.0000		UNV			
METHYL METHACRYLATE UG/L										5.0000		UNV			
PENTACHLOROETHANE UG/L										5.0000		UNV			
TRANS-1,2-DICHLOROETHENE UG/L										1.0000		UNV			
TRANS-1,4-DICHLORO-2-BUTENE UG/L										20.0000		UNV			
RADIONUCLIDES															
URANIUM-238 PCI/L													0.8000	.2	J
URANIUM, TOTAL UG/L										10.0000		NV	10.0000		NV
URANIUM-234 PCI/L													0.7000	.2	J
THORIUM-230 PCI/L										0.4000	.1	NV	0.2000	.2	UJ

001179

SAMPLE NUMBER:	045682			045683			045684			GW930104-8			GW930416-8		
LAB:										CORE			CORE		
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RADIUM-226 PCI/L										1.3000	.4	NV	1.7000	.5	-
URANIUM-235/236 PCI/L													0.2000	.3	UJ
THORIUM-232 PCI/L										0.2000	.1	UNV	0.4000	.1	UJ
THORIUM, TOTAL UG/L										1.3000		NV			
RADIUM-228 PCI/L										3.0000	1	UNV	3.0000	1	U
THORIUM-228 PCI/L										0.2000	.1	UNV	0.2000	.1	UJ
TECHNETIUM-99 PCI/L													15.0000	6.9	UJ
GROSS ALPHA PCI/L										9.8000	10	NV	5.0000	2.7	UNV
GROSS BETA PCI/L										2.5000	8.9	NV	41.5000	13.7	NV
SEMIVOLATILES															
2-CHLOROETHYLVINYL ETHER UG/L										10.0000		UNV			
CUMENE UG/L										1.0000		UNV			
VOLATILES															
1,1,1,2-TETRACHLOROETHANE UG/L										1.0000		UNV			
1,1,1-TRICHLOROETHANE UG/L										1.0000		UNV	10.0000		U
1,1,2,2-TETRACHLOROETHANE UG/L										1.0000		UNV	10.0000		U
1,1,2-TRICHLOROETHANE UG/L										1.0000		UNV	10.0000		U
1,1-DICHLOROETHANE UG/L										1.0000		UNV	10.0000		U
1,1-DICHLOROETHENE UG/L										1.0000		UNV	10.0000		U
1,2-DICHLOROETHANE UG/L										1.0000		UNV	10.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L													10.0000		U
1,2-DICHLOROPROPANE UG/L										1.0000		UNV	10.0000		U
2-BUTANONE UG/L										10.0000		UNV	10.0000		U
2-HEXANONE UG/L										10.0000		UNV	10.0000		U
4-METHYL-2-PENTANONE UG/L										10.0000		UNV	10.0000		U
ACETONE UG/L										10.0000		UNV	10.0000		U
BENZENE UG/L										1.0000		UNV	10.0000		UJ
BROMODICHLOROMETHANE UG/L										1.0000		UNV	10.0000		U
BROMOFORM UG/L										1.0000		UNV	10.0000		U
BROMOMETHANE UG/L										5.0000		UNV	10.0000		U
CARBON DISULFIDE UG/L										1.0000		UNV	10.0000		U
CARBON TETRACHLORIDE UG/L										1.0000		UNV	10.0000		U
CHLOROBENZENE UG/L										1.0000		UNV	10.0000		UJ
CHLOROETHANE UG/L										10.0000		UNV	10.0000		U
CHLOROFORM UG/L										1.0000		UNV	10.0000		U
CHLOROMETHANE UG/L										10.0000		UNV	10.0000		UJ
CIS-1,3-DICHLOROPROPENE UG/L										1.0000		UNV	10.0000		U
DIBROMOCHLOROMETHANE UG/L										1.0000		UNV	10.0000		U
ETHYLBENZENE UG/L										1.0000		UNV	10.0000		UJ
METHYLENE CHLORIDE UG/L										10.0000		UNV	10.0000		U
STYRENE UG/L										1.0000		UNV	10.0000		UJ

SAMPLE NUMBER:		045682			045683			045684			GW930104-8			GW930416-8		
LAB:											NET			DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TETRACHLOROETHENE	UG/L										1.0000		UNV	10.0000		U
TOLUENE	UG/L										1.0000		UNV	10.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV	10.0000		U
TRICHLOROETHENE	UG/L										1.0000		UNV	10.0000		U
TRICHLOROFLUOROMETHANE	UG/L										1.0000		UNV			
VINYL ACETATE	UG/L										10.0000		UNV			
VINYL CHLORIDE	UG/L										5.0000		UNV	10.0000		UJ
XYLENES, TOTAL	UG/L										1.0000		UNV	10.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045245	045246	045372	045373	062414
TASK:	3.7	3.7	3.7	3.7	04.30
LAB:		WMCO	IT	IT	IT/MWL
WELL OR BORING NUMBER:	1161	1161	1161	1161	1161
DEPTH:	-	-	-	-	-
DATE COLLECTED:	19-JUL-89	02-AUG-89	08-OCT-89	08-OCT-89	04-FEB-93
NORTH COORDINATE:	480118.86	480118.86	480118.86	480118.86	480118.86
EAST COORDINATE:	1381704.87	1381704.87	1381704.87	1381704.87	1381704.87
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										15.8000		-			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				5080.0000		NV	216.0000	33	-						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		U
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U

SAMPLE NUMBER:		045245			045246			045372			045373			062414		
LAB:														IT/MWL		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													50.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
TRIBUTYL PHOSPHATE	UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062415			062417			062419			062420			066897		
TASK:	04.30			04.30			04.30			04.30			3.7		
LAB:	IT/MWL			IT/MWL			IT/MWL			IT/RSL			IT/MWL		
WELL OR BORING NUMBER:	1161			1161			1161			1161			1161		
DEPTH:	-			-			-			-			-11		
DATE COLLECTED:	05-FEB-93			11-FEB-93			12-FEB-93			23-FEB-93			24-JUL-90		
NORTH COORDINATE:	480118.86			480118.86			480118.86			480118.86			480118.86		
EAST COORDINATE:	1381704.87			1381704.87			1381704.87			1381704.87			1381704.87		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L							4.7000		-				1.6400		-
ANTIMONY	MG/L							0.0050		UJ				0.0873		-
ARSENIC	MG/L							0.0020		UJ				0.0020		UJ
BARIUM	MG/L							0.0056		-				0.0529		-
BERYLLIUM	MG/L							0.0050		-				0.0134		-
CADMIUM	MG/L							0.0050		U				0.0230		-
CALCIUM	MG/L							333.0000		-				301.0000		-
CHROMIUM	MG/L							0.0100		U				0.3990		-
COBALT	MG/L							0.0100		U				0.0422		-
COPPER	MG/L							0.0100		U				0.1160		-
CYANIDE	MG/L	0.0030		-										0.0020		UJ
IRON	MG/L							0.0200		U				0.1200		-
LEAD	MG/L							0.0020		U				0.0107		J
MAGNESIUM	MG/L							179.0000		-				155.0000		-
MANGANESE	MG/L							0.1620		-				0.1670		-
MERCURY	MG/L							0.0002		U				0.0002		U
MOLYBDENUM	MG/L							0.0200		U						
NICKEL	MG/L							0.0200		U				0.0832		-
POTASSIUM	MG/L							5.1400		-				7.6300		-
SELENIUM	MG/L							0.0020		UJ				0.0020		UJ
SILICON	MG/L							6.5100		-						
SILVER	MG/L							0.0818		-				0.1660		-
SODIUM	MG/L							46.5000		-				33.9000		-
THALLIUM	MG/L							0.0020		U				0.0020		UJ
VANADIUM	MG/L							0.0100		U				0.1310		-
ZINC	MG/L							0.1330		-				0.7580		-
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U				0.1000		U

001364

8704

SAMPLE NUMBER:		062415			062417		062419			062420			066897		
LAB:							IT/MWL						IT		
SUFFIX/FILTERFLAG:		-			-		NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	UG/L						0.1000		U				0.1000		U
4,4'-DDT	UG/L						0.1000		U				0.1000		U
ALDRIN	UG/L						0.0520		U				0.0500		U
ALPHA-BHC	UG/L						0.0520		U				0.0500		U
ALPHA-CHLORDANE	UG/L						0.5200		U				0.5000		U
AROCLOR-1016	UG/L						0.5200		U				0.5000		U
AROCLOR-1221	UG/L						0.5200		U				0.5000		U
AROCLOR-1232	UG/L						0.5200		U				0.5000		U
AROCLOR-1242	UG/L						0.5200		U				0.5000		U
AROCLOR-1248	UG/L						0.5200		U				0.5000		U
AROCLOR-1254	UG/L						1.0000		U				1.0000		U
AROCLOR-1260	UG/L						1.0000		U				1.0000		U
BETA-BHC	UG/L						0.0520		U				0.0500		U
DELTA-BHC	UG/L						0.0520		U				0.0500		U
DIELDRIN	UG/L						0.1000		U				0.1000		U
ENDOSULFAN II	UG/L						0.1000		U				0.1000		U
ENDOSULFAN SULFATE	UG/L						0.1000		U				0.1000		U
ENDOSULFAN-I	UG/L						0.0520		U				0.0500		U
ENDRIN	UG/L						0.1000		U				0.1000		U
ENDRIN KETONE	UG/L						0.1000		U				0.1000		U
GAMMA-BHC (LINDANE)	UG/L						0.0520		U				0.0500		U
GAMMA-CHLORDANE	UG/L						0.5200		U				0.5000		U
HEPTACHLOR	UG/L						0.0520		U				0.0500		U
HEPTACHLOR EPOXIDE	UG/L						0.0520		U				0.0500		U
METHOXYCHLOR	UG/L						0.5200		U				0.5000		U
TOXAPHENE	UG/L						1.0000		U				1.0000		U
RADIONUCLIDES															
URANIUM-238	PCI/L									44100.0000	9400	-	25572.0000	5202	J
URANIUM, TOTAL	UG/L									101000.000	14000	-	98500.0000	13000	J
URANIUM-234	PCI/L									42800.0000	9100	-	24988.0000	5085	J
THORIUM-230	PCI/L									24.3000	14.3	J	4.7000		UJ
RADIUM-226	PCI/L									1.0000		UJ	1.0000		R
URANIUM-235/236	PCI/L									2170.0000	570	-	2488.0000	549	J
THORIUM-232	PCI/L									8.5000		UJ	4.7000		UJ
THORIUM, TOTAL	UG/L									6.5000	29.1	J	43.0000		UJ
RADIUM-228	PCI/L									16.0000	3.5	-	19.2000	3.1	R
THORIUM-228	PCI/L									4.2800	6.1	J	5.2900	3.59	J
NEPTUNIUM-237	PCI/L												1.0000		UJ
PLUTONIUM-239/240	PCI/L												1.0000		R
PLUTONIUM-238	PCI/L												1.0000		R
STRONTIUM-90	PCI/L									1.0000		UJ	5.0000		U
TECHNETIUM-99	PCI/L									15.0000		UJ	15.0000	8.3	UJ
RUTHENIUM-106	PCI/L									150.0000		UJ	150.0000		R

SAMPLE NUMBER:		062415			062417			062419			062420			066897		
LAB:											IT/RSL			IT		
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
CESIUM-137	PCI/L										20.0000		UJ	20.0000		R
GROSS ALPHA	PCI/L				49500.0000	5000	NV				56700.0000	5900	NV			
GROSS BETA	PCI/L				28100.0000	2800	NV				44400.0000	4500	NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		UJ
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		UJ
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		UJ

SAMPLE NUMBER:		062415			062417			062419			062420			066897		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		UJ
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		UJ
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													50.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U							5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U							5.0000		UJ
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U							5.0000		U
1,1-DICHLOROETHANE	UG/L				10.0000		U							5.0000		U
1,1-DICHLOROETHENE	UG/L				10.0000		U							5.0000		U
1,2-DICHLOROETHANE	UG/L				10.0000		U							5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U							5.0000		U
1,2-DICHLOROPROPANE	UG/L				10.0000		U							5.0000		U
2-BUTANONE	UG/L				10.0000		UJ							10.0000		UJ
2-HEXANONE	UG/L				10.0000		UJ							10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ							10.0000		U
ACETONE	UG/L				10.0000		UJ							10.0000		UJ
BENZENE	UG/L				10.0000		U							5.0000		UJ
BROMODICHLOROMETHANE	UG/L				10.0000		U							5.0000		U
BROMOFORM	UG/L				10.0000		U							5.0000		U
BROMOMETHANE	UG/L				10.0000		UJ							10.0000		U

001367

SAMPLE NUMBER:	062415			062417		062419			062420			066897		
LAB:				IT/MWL								IT/MWL		
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CARBON DISULFIDE UG/L				10.0000		U							5.0000		U
CARBON TETRACHLORIDE UG/L				10.0000		U							5.0000		U
CHLOROBENZENE UG/L				10.0000		U							5.0000		UJ
CHLOROETHANE UG/L				10.0000		U							10.0000		U
CHLOROFORM UG/L				10.0000		U							5.0000		U
CHLOROMETHANE UG/L				10.0000		UJ							10.0000		UJ
CIS-1,3-DICHLOROPROPENE UG/L				10.0000		U							5.0000		U
DIBROMOCHLOROMETHANE UG/L				10.0000		U							5.0000		U
ETHYLBENZENE UG/L				10.0000		U							5.0000		UJ
METHYLENE CHLORIDE UG/L				10.0000		U							5.0000		U
STYRENE UG/L				10.0000		U							5.0000		UJ
TETRACHLOROETHENE UG/L				10.0000		U							3.0000		J
TOLUENE UG/L				10.0000		U							5.0000		UJ
TRANS-1,3-DICHLOROPROPENE UG/L				10.0000		U							5.0000		U
TRICHLOROETHENE UG/L				10.0000		U							5.0000		U
VINYL ACETATE UG/L				10.0000		UJ							10.0000		U
VINYL CHLORIDE UG/L				10.0000		U							10.0000		U
XYLENES, TOTAL UG/L				10.0000		U							5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045137	045555	045556	045557	045692
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	1167	1167	1167	1167	1167
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-MAY-89	18-OCT-89	18-OCT-89	05-FEB-90	05-FEB-90
NORTH COORDINATE:	480022.72	480022.72	480022.72	480022.72	480022.72
EAST COORDINATE:	1380741.19	1380741.19	1380741.19	1380741.19	1380741.19
QA TYPE:	NORMAL	NORMAL	NORMAL	DUPLICATE	NORMAL
QC OF:				045692	
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							0.1000		U	0.1500		-	0.1000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	5.3000		NV												
URANIUM, TOTAL	UG/L	16.0000		NV	373.0000	52	-									
URANIUM-234	PCI/L	5.0000		NV												
URANIUM-235	PCI/L	0.2600		NV												
URANIUM-236	PCI/L	0.0510		NV												

001369

SAMPLE NUMBER:	098902			098903			098997			099008			045131		
LAB:	IT						IT								
SUFFIX/FILTERFLAG:	F-FIL			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	0.0474		-				0.0854		-						
MERCURY	MG/L	0.0002		U				0.0002		U						
MOLYBDENUM	MG/L	0.0200		U				0.0200		U						
NICKEL	MG/L	0.0200		U				0.0200		U						
POTASSIUM	MG/L	4.9900		-				4.4800		-						
SELENIUM	MG/L	0.0030		U				0.0020		U						
SILICON	MG/L	3.5800		-				5.6500		-						
SILVER	MG/L	0.0100		UJ				0.0100		U						
SODIUM	MG/L	112.0000		-				91.1000		-						
THALLIUM	MG/L							0.0020		U						
VANADIUM	MG/L	0.0100		U				0.0100		U						
ZINC	MG/L							0.0224		-						
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U						
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		U						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		U						
ALPHA-CHLORDANE	UG/L							0.5000		U						
AROCLOR-1016	UG/L							0.5000		U						
AROCLOR-1221	UG/L							0.5000		U						
AROCLOR-1232	UG/L							0.5000		U						
AROCLOR-1242	UG/L							0.5000		U						
AROCLOR-1248	UG/L							0.5000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		U						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		U						
GAMMA-CHLORDANE	UG/L							0.5000		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							1.0000		U						
RADIONUCLIDES																

0 2 0 4

URANIUM-238	PCI/L	228.000B1	J				83.2000	12.7	J							
SAMPLE NUMBER:		098902			098903			098997			099008			045131		
LAB:		IT						IT/RSL								
SUFFIX/FILTERFLAG:		NONE-FIL			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	754.000007		-	460.0000		NV	258.0000	35	J	250.0000		NV			
URANIUM-234	PCI/L	240.000B2		J				86.2000	13.2	J						
THORIUM-230	PCI/L	1.0900	.51	J				1.1200	.32	J						
RADIUM-226	PCI/L	1.0000		UJ												
URANIUM-235/236	PCI/L	21.40004.4		J				3.3500	.88	J						
THORIUM-232	PCI/L	0.4000		UJ				0.2000		UJ						
THORIUM, TOTAL	UG/L	1.3400	2.01	-				1.1000		UJ						
RADIUM-228	PCI/L	3.0000		UJ												
THORIUM-228	PCI/L	0.7000		UJ				0.3000		UJ						
NEPTUNIUM-237	PCI/L	1.9700	.675	J				0.5000		UJ						
PLUTONIUM-239/240	PCI/L	0.5060	.368	J				0.5000		UJ						
PLUTONIUM-238	PCI/L	0.5000		UJ				0.5000		UJ						
STRONTIUM-90	PCI/L	1.0000		UJ				1.0000		UJ						
TECHNETIUM-99	PCI/L	13.0000		R				15.0000		UJ						
RUTHENIUM-106	PCI/L	150.0000		UJ				150.0000		UJ						
CESIUM-137	PCI/L	16.0000		UJ				15.0000		UJ						
GROSS ALPHA	PCI/L	590.00087		NV				144.0000	20	NV						
GROSS BETA	PCI/L	93.200010.9		NV				43.1000	5.5	NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							50.0000		U						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							50.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		U						
3-NITROANILINE	UG/L							50.0000		UJ						
4,6-DINITRO-2-METHYLPHENOL	UG/L							50.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						

SAMPLE NUMBER:		098902			098903			098997			099008			045131		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							50.0000		UJ						
4-NITROPHENOL	UG/L							50.0000		U						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BENZOIC ACID	UG/L							50.0000		UJ						
BENZYL ALCOHOL	UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							11.0000		U						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CARBAZOLE	UG/L							10.0000		UJ						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		UJ						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		UJ						
PENTACHLOROPHENOL	UG/L							50.0000		U						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							10.0000		U						
PYRENE	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

VOLATILES																	
1,1,1-TRICHLOROETHANE	UG/L	5.0000	U				5.0000		U								
06/20/94																	
SAMPLE NUMBER:		098902			098903			098997			099008			045131			
LAB:		IT						IT									
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-UNF			-			-			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																	
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U				5.0000		U							
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U				5.0000		U							
1,1-DICHLOROETHANE	UG/L	5.0000		U				5.0000		U							
1,1-DICHLOROETHENE	UG/L	5.0000		U				5.0000		U							
1,2-DICHLOROETHANE	UG/L	5.0000		U				5.0000		U							
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U				5.0000		U							
1,2-DICHLOROPROPANE	UG/L	5.0000		U				5.0000		U							
2-BUTANONE	UG/L	10.0000		UJ				10.0000		UJ							
2-HEXANONE	UG/L	10.0000		UJ				10.0000		UJ							
4-METHYL-2-PENTANONE	UG/L	10.0000		UJ				10.0000		UJ							
ACETONE	UG/L	10.0000		U				10.0000		U							
BENZENE	UG/L	5.0000		U				5.0000		U							
BROMODICHLOROMETHANE	UG/L	5.0000		U				5.0000		U							
BROMOFORM	UG/L	5.0000		U				5.0000		U							
BROMOMETHANE	UG/L	10.0000		U				10.0000		UJ							
CARBON DISULFIDE	UG/L	5.0000		U				5.0000		U							
CARBON TETRACHLORIDE	UG/L	5.0000		UJ				5.0000		U							
CHLOROBENZENE	UG/L	5.0000		U				5.0000		U							
CHLOROETHANE	UG/L	10.0000		U				10.0000		U							
CHLOROFORM	UG/L	5.0000		U				5.0000		U							
CHLOROMETHANE	UG/L	10.0000		U				10.0000		U							
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U				5.0000		U							
DIBROMOCHLOROMETHANE	UG/L	5.0000		U				5.0000		U							
ETHYLBENZENE	UG/L	5.0000		U				5.0000		U							
METHYLENE CHLORIDE	UG/L	5.0000		U				6.0000		UJ							
STYRENE	UG/L	5.0000		U				5.0000		U							
TETRACHLOROETHENE	UG/L	5.0000		U				5.0000		U							
TOLUENE	UG/L	5.0000		U				5.0000		U							
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U				5.0000		U							
TRICHLOROETHENE	UG/L	5.0000		U				5.0000		U							
VINYL ACETATE	UG/L	10.0000		U				10.0000		UJ							
VINYL CHLORIDE	UG/L	10.0000		U				10.0000		U							
XYLENES, TOTAL	UG/L	5.0000		U				5.0000		U							

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045150	045694	045696	118588	118591
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	WMCO	IT	IT	DATACHEM	FERMCO
WELL OR BORING NUMBER:	1171	1171	1171	1171	1171
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-MAY-89	08-FEB-90	14-JUL-90	11-JUN-93	11-JUN-93
NORTH COORDINATE:	479941.71	479941.71	479941.71	479941.71	479941.71
EAST COORDINATE:	1382070.58	1382070.58	1382070.58	1382070.58	1382070.58
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		045150 RESULT	SIGMA	VAL QUAL(1)	045694 RESULT	SIGMA	VAL QUAL(1)	045696 RESULT	SIGMA	VAL QUAL(1)	118588 RESULT	SIGMA	VAL QUAL(1)	118591 RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										370.0000		-			
AMMONIA	MG/L										0.0500		U			
CHLORIDE	MG/L										29.0000		-			
FLUORIDE	MG/L										0.4000		-			
NITRATE	MG/L				0.4970		J	0.1500		J						
NITRATE/NITRITE	MG/L										0.0500		U			
PHENOLS	MG/L										0.0020		U			
PHOSPHORUS	MG/L										0.1000		-			
SULFATE	MG/L										37.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										2.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0200		-			
INORGANICS																
ALUMINUM	MG/L										30.5000		-			
ANTIMONY	MG/L										0.0157		U			
ARSENIC	MG/L										0.0020		U			
BARIUM	MG/L										0.0509		-			
BERYLLIUM	MG/L										0.0023		U			
CADMIUM	MG/L										0.0012		U			
CALCIUM	MG/L										124.0000		-			
CHROMIUM	MG/L										0.0057		U			
COBALT	MG/L										0.0034		U			
COPPER	MG/L										0.0024		U			
CYANIDE	MG/L										0.0100		U			
IRON	MG/L										0.0251		U			
LEAD	MG/L										0.0014		-			
MAGNESIUM	MG/L										32.7000		-			
MANGANESE	MG/L										0.0646		-			

001374

5704

SAMPLE NUMBER:		045150			045694			045696			118588			118591		
LAB:											DATACHEM					
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L										0.0002		U			
NICKEL	MG/L										0.0084		-			
POTASSIUM	MG/L										0.6070		-			
SELENIUM	MG/L										0.0010		UJ			
SILVER	MG/L										0.0029		UJ			
SODIUM	MG/L										14.3000		-			
THALLIUM	MG/L										0.0010		U			
VANADIUM	MG/L										0.0038		U			
ZINC	MG/L										0.1590		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	4.7000		NV												
URANIUM, TOTAL	UG/L	14.0000		NV	25.0000	4.4	J							10.0000		NV
URANIUM-234	PCI/L	5.3000		NV												
URANIUM-235	PCI/L	0.2100		NV												
URANIUM-236	PCI/L	0.0300		NV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		UJ			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			

SAMPLE NUMBER:		045150			045694			045696			118588			118591		
LAB:											DATACHEM					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118591F			118592			118592F			045120			045121		
TASK:		50.03.23			50.03.23			50.03.23			3.7			3.7		
LAB:		FERMCO			CORE			CORE			IT			IT		
WELL OR BORING NUMBER:		1171			1171			1171			1172			1172		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		11-JUN-93			14-JUN-93			15-JUN-93			04-APR-89			04-APR-89		
NORTH COORDINATE:		479941.71			479941.71			479941.71			479911.95			479911.95		
EAST COORDINATE:		1382070.58			1382070.58			1382070.58			1381513.34			1381513.34		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L				3.3000	.9	J	2.3000	.4	J						
URANIUM, TOTAL	UG/L	9.2000		NV	8.9000	.6	-	8.3000	.6	-						
URANIUM-234	PCI/L				3.2000	.8	J	2.5000	.5	J						
THORIUM-230	PCI/L				0.2000	.2	UJ	0.3000	.2	J						
RADIUM-226	PCI/L				1.0000	.4	U	1.7000	.5	-						
URANIUM-235/236	PCI/L				0.2000	.5	UJ	0.2000	.2	UJ						
THORIUM-232	PCI/L				0.2000	.3	UJ	0.2000	.3	UJ						
THORIUM, TOTAL	UG/L				0.9120	.3	NV	1.8240	.3	NV						
RADIUM-228	PCI/L				3.0000	1.2	U	4.2000	2	-						
THORIUM-228	PCI/L				0.2000	.3	UJ	0.2000	.9	UJ						
TECHNETIUM-99	PCI/L				32.9000	7.4	J	15.0000	8.3	U						
GROSS ALPHA	PCI/L				20.9000	4.4	NV	2.9000	1.7	UNV						
GROSS BETA	PCI/L				31.9000	4.7	NV	7.7000	1.9	NV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										5.0000		U	5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L										5.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L										4.0000		J	5.0000		-
1,1-DICHLOROETHENE	UG/L										5.0000		U	5.0000		U
1,2-DICHLOROETHANE	UG/L										5.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U	1.0000		J
1,2-DICHLOROPROPANE	UG/L										5.0000		U	5.0000		U
2-BUTANONE	UG/L										10.0000		U	10.0000		U
2-HEXANONE	UG/L										10.0000		U	10.0000		U
4-METHYL-2-PENTANONE	UG/L										10.0000		U	10.0000		U
ACETONE	UG/L										15.0000		U	10.0000		U
BENZENE	UG/L										4.0000		J	14.0000		-
BROMODICHLOROMETHANE	UG/L										5.0000		U	5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045122			045123			045274			045275			045700
TASK:		3.7			3.7			3.7			3.7			3.7
LAB:		WMCO			WMCO			WMCO			IT			IT
WELL OR BORING NUMBER:		1172			1172			1172			1172			1172
DEPTH:		-			-			-			-			-
DATE COLLECTED:		04-APR-89			04-APR-89			17-JUL-89			30-JAN-90			30-JUN-90
NORTH COORDINATE:		479911.95			479911.95			479911.95			479911.95			479911.95
EAST COORDINATE:		1381513.34			1381513.34			1381513.34			1381513.34			1381513.34
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.3300		-	0.1000		UJ
INORGANICS																
LEAD	MG/L	0.0010		UNV	0.0350		NV									
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	21000.0000		NV	26.0000		NV	22.0000		NV	148.0000	24	J			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_301	EMGW_SYSGEN_302	EMGW_SYSGEN_303	045124	045129
TASK:	GWMON	GWMON	GWMON	3.7	3.7
LAB:	NET	IT	NET	WMCO	IT
WELL OR BORING NUMBER:	1172	1172	1172	1173	1173
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-MAR-90	25-JUN-90	26-JUN-90	13-APR-89	14-APR-89
NORTH COORDINATE:	479911.95	479911.95	479911.95	479751.25	479751.25
EAST COORDINATE:	1381513.34	1381513.34	1381513.34	1381394.46	1381394.46
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L							218.0000		NV						
NITRATE, AS NITROGEN	MG/L							0.0200		NV						
OIL AND GREASE	%													2.8000		J
SULFATE	MG/L							49.0000		NV						
TOTAL ORGANIC CARBON	MG/L							8.0000		NV						
TOTAL ORGANIC HALOGENS	MG/L							0.0470		NV						
INORGANICS																
LEAD	MG/L	0.0520		NV				0.0490		NV						
RADIONUCLIDES																
URANIUM-238	PCI/L				41.7000		NV									
URANIUM, TOTAL	UG/L				125.0000		NV				388.0000		NV			
URANIUM-234	PCI/L				27.5000		NV									
THORIUM-230	PCI/L				2.1000		NV									
RADIUM-226	PCI/L				2.2000		NV									
URANIUM-235/236	PCI/L				2.1100		NV									
THORIUM-232	PCI/L				1.1400		NV									
THORIUM, TOTAL	UG/L				10.3000		NV									
RADIUM-228	PCI/L				3.0000		UNV									
THORIUM-228	PCI/L				1.1800		NV									
GROSS ALPHA	PCI/L				120.0000		NV									
GROSS BETA	PCI/L				142.0000		NV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV						
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						

SAMPLE NUMBER:		EMGW_SYSGEN_301			EMGW_SYSGEN_302			EMGW_SYSGEN_303			045124			045129		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV						
1,1-DICHLOROETHANE	UG/L							6.6000		NV						
1,1-DICHLOROETHENE	UG/L							1.0000		UNV						
1,2-DICHLOROETHANE	UG/L							1.0000		UNV						
1,2-DICHLOROETHENE (TOTAL)	UG/L							1.0000		UNV						
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV						
2-BUTANONE	UG/L							2.0000		UNV						
2-HEXANONE	UG/L							2.0000		UNV						
4-METHYL-2-PENTANONE	UG/L							2.0000		UNV						
ACETONE	UG/L							2.0000		UNV						
BENZENE	UG/L	1.0000		UNV				1.0000		UNV						
BROMODICHLOROMETHANE	UG/L							1.0000		UNV						
BROMOFORM	UG/L							1.0000		UNV						
BROMOMETHANE	UG/L							1.0000		UNV						
CARBON DISULFIDE	UG/L							1.0000		UNV						
CARBON TETRACHLORIDE	UG/L							1.0000		UNV						
CHLOROBENZENE	UG/L							1.0000		UNV						
CHLOROFORM	UG/L							1.0000		UNV						
CHLOROMETHANE	UG/L							1.0000		UNV						
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV						
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV						
ETHYLBENZENE	UG/L							1.0000		UNV						
METHYLENE CHLORIDE	UG/L							1.0000		UNV						
STYRENE	UG/L							1.0000		UNV						
TETRACHLOROETHENE	UG/L							1.0000		UNV						
TOLUENE	UG/L	1.0000		UNV				1.0000		UNV						
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV						
TRICHLOROETHENE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L							2.0000		UNV						
VINYL CHLORIDE	UG/L							1.0000		UNV						
XYLENES, TOTAL	UG/L	1.0000		UNV				1.0000		UNV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045143	045704	045705	098801	098803
TASK:	3.7	3.7	3.7	50.03.07	50.03.07
LAB:	WMCO	IT	IT	IT/MWL	FERMCO
WELL OR BORING NUMBER:	1173	1173	1173	1173	1173
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-MAY-89	30-JAN-90	30-JUN-90	24-FEB-93	24-FEB-93
NORTH COORDINATE:	479751.25	479751.25	479751.25	479751.25	479751.25
EAST COORDINATE:	1381394.46	1381394.46	1381394.46	1381394.46	1381394.46
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1100		-	0.1000		UJ						
INORGANICS																
ALUMINUM	MG/L										0.2840		U			
ANTIMONY	MG/L										0.0050		UJ			
ARSENIC	MG/L										0.0020		UJ			
BARIUM	MG/L										0.0656		-			
BERYLLIUM	MG/L										0.0020		U			
CADMIUM	MG/L										0.0050		U			
CALCIUM	MG/L										143.0000		-			
CHROMIUM	MG/L										0.0100		U			
COBALT	MG/L										0.0100		U			
COPPER	MG/L										0.0100		U			
IRON	MG/L										0.0240		-			
LEAD	MG/L										0.0020		U			
MAGNESIUM	MG/L										50.4000		-			
MANGANESE	MG/L										0.3620		-			
MERCURY	MG/L										0.0002		U			
MOLYBDENUM	MG/L										0.0200		U			
NICKEL	MG/L										0.0200		U			
POTASSIUM	MG/L										0.7850		-			
SELENIUM	MG/L										0.0020		UJ			
SILICON	MG/L										6.9600		U			
SILVER	MG/L										0.0100		U			
SODIUM	MG/L										90.3000		-			
THALLIUM	MG/L										0.0020		U			
VANADIUM	MG/L										0.0100		U			
ZINC	MG/L										0.0050		U			

001381

RADIONUCLIDES

URANIUM-238 PCI/L 130.0000 NV
06/20/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 743

SAMPLE NUMBER:	045143	045704	045705	098801	098803
LAB:	WMCO				
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	395.0000		NV	1210.0000	211	J							760.0000		NV
URANIUM-234	PCI/L	49.0000		NV												
URANIUM-235	PCI/L	3.3000		NV												
URANIUM-236	PCI/L	1.0000		NV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

001382

5704

SAMPLE NUMBER:		EMGW_SYSGEN_304			EMGW_SYSGEN_305			EMGW_SYSGEN_306			EMGW_SYSGEN_307			EMGW_SYSGEN_308		
LAB:											NET					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L										0.7090		NV			
MERCURY	MG/L										0.0002		UNV			
MOLYBDENUM	MG/L										0.0250		UNV			
NICKEL	MG/L										0.0060		NV			
POTASSIUM	MG/L										1.1900		NV			
SELENIUM	MG/L										0.0025		UNV			
SILVER	MG/L										0.0010		UNV			
SODIUM	MG/L										101.0000		NV			
THALLIUM	MG/L										0.0100		UNV			
VANADIUM	MG/L										0.0500		UNV			
ZINC	MG/L										0.0470		NV			
MISC																
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L				322.0000		NV									
URANIUM, TOTAL	UG/L				963.0000		NV							232.0000		NV
URANIUM-234	PCI/L				142.0000		NV									
THORIUM-230	PCI/L				3.0800		NV							2.1000		NV
RADIUM-226	PCI/L				1.6600		NV							1.0000		UNV
URANIUM-235/236	PCI/L				10.7000		NV									
THORIUM-232	PCI/L				4.0600		NV							1.5100		NV
THORIUM, TOTAL	UG/L				36.7000		NV							13.6000		NV
RADIUM-228	PCI/L				3.0000		UNV							3.0000		UNV
THORIUM-228	PCI/L				0.8300		UNV							4.0900		NV
NEPTUNIUM-237	PCI/L													0.5000		UNV
PLUTONIUM-239/240	PCI/L													0.5000		UNV
PLUTONIUM-238	PCI/L													0.5000		UNV
STRONTIUM-90	PCI/L													1.0000		UNV
TECHNETIUM-99	PCI/L													21.5000		NV
RUTHENIUM-106	PCI/L													150.0000		UNV
CESIUM-137	PCI/L													6.7000		UNV
GROSS ALPHA	PCI/L				386.0000		NV							539.0000		NV
GROSS BETA	PCI/L				267.0000		NV							1000.0000		NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV			

SAMPLE NUMBER:		EMGW_SYSGEN_304			EMGW_SYSGEN_305			EMGW_SYSGEN_306			EMGW_SYSGEN_307			EMGW_SYSGEN_308		
LAB:					NET						NET					
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV			
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV			
1,1-DICHLOROETHANE	UG/L				1.8000		NV				1.0000		UNV			
1,1-DICHLOROETHENE	UG/L				1.0000		UNV				1.0000		UNV			
1,2-DICHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV			
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV				1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV				1.0000		UNV			
2-BUTANONE	UG/L				2.0000		UNV				2.0000		UNV			
2-HEXANONE	UG/L				2.0000		UNV				2.0000		UNV			
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV				2.0000		UNV			
ACETONE	UG/L				2.0000		UNV				2.0000		UNV			
BENZENE	UG/L	1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV			
BROMODICHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV			
BROMOFORM	UG/L				1.0000		UNV				1.0000		UNV			
BROMOMETHANE	UG/L				1.0000		UNV				1.0000		UNV			
CARBON DISULFIDE	UG/L				1.0000		UNV				1.0000		UNV			
CARBON TETRACHLORIDE	UG/L				1.0000		UNV				1.0000		UNV			
CHLOROBENZENE	UG/L				1.0000		UNV				1.0000		UNV			
CHLOROETHANE	UG/L										1.0000		UNV			
CHLOROFORM	UG/L				1.0000		UNV				1.0000		UNV			
CHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV			
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				1.0000		UNV			
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV			
ETHYLBENZENE	UG/L				1.0000		UNV	0.5000		UNV	1.0000		UNV			
METHYLENE CHLORIDE	UG/L				1.0000		UNV				1.0000		UNV			
STYRENE	UG/L				1.0000		UNV				1.0000		UNV			
TETRACHLOROETHENE	UG/L				1.0000		UNV				1.0000		UNV			
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	0.5000		UNV	1.0000		UNV			
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV				1.0000		UNV			
TRICHLOROETHENE	UG/L				1.0000		UNV				1.0000		UNV			
VINYL ACETATE	UG/L				2.0000		UNV				2.0000		UNV			
VINYL CHLORIDE	UG/L				1.0000		UNV				1.0000		UNV			
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	1.0000		UNV			

SAMPLE NUMBER:		045320			045321			045713			118337			118338		
LAB:											DATACHEM			DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L										0.0043		J	0.0030		UJ
SODIUM	MG/L										17.2000		-	18.4000		-
THALLIUM	MG/L										0.0010		U	0.0010		U
VANADIUM	MG/L										0.0397		-	0.0059		U
ZINC	MG/L										0.1160		-	0.0060		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	205.00084		-				177.0000	28	-						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118340	118341	118342	118343	045378
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	3.7
LAB:	FERMCO	FERMCO	CORE	CORE	IT
WELL OR BORING NUMBER:	1177	1177	1177	1177	1178
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-MAY-93	21-MAY-93	21-MAY-93	21-MAY-93	18-OCT-89
NORTH COORDINATE:	480728.72	480728.72	480728.72	480728.72	480719.82
EAST COORDINATE:	1380078.62	1380078.62	1380078.62	1380078.62	1380195.61
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L							17.5000	1.8	-	15.3000	2.2	J			
URANIUM, TOTAL	UG/L	56.0000		NV	52.0000		NV	46.7000	3.3	-	77.0000	5.4	J	999.0000	146	-
URANIUM-234	PCI/L							16.6000	3.4	-	16.9000	2	J			
THORIUM-230	PCI/L							0.7000	.4	-	0.4000	.3	R			
RADIUM-226	PCI/L							2.4000	.4	J	1.8000	.4	J			
URANIUM-235/236	PCI/L							1.3000	.3	-	0.7000	.4	J			
THORIUM-232	PCI/L							0.3000	.3	U	0.2000	.3	R			
RADIUM-228	PCI/L							3.0000	1.5	U	3.0000	1.1	U			
THORIUM-228	PCI/L							0.4000	.3	-	0.1000	.4	R			
TECHNETIUM-99	PCI/L							15.0000	7.1	U	15.4000	9.1	UJ			
GROSS ALPHA	PCI/L										68.5000	13.8	NV			
GROSS BETA	PCI/L										52.2000	14.6	NV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045379	045380	045381	045717	045718
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1178	1178	1178	1178	1178
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-OCT-89	18-OCT-89	18-OCT-89	01-JUN-90	27-JUL-90
NORTH COORDINATE:	480719.82	480719.82	480719.82	480719.82	480719.82
EAST COORDINATE:	1380195.61	1380195.61	1380195.61	1380195.61	1380195.61
QA TYPE:	NORMAL	DUPLICATE	DUPLICATE	NORMAL	NORMAL
QC OF:		045378	045379		
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.4500		-				0.4600		-						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				1175.0000	172	-							142.0000	20	-
SEMIVOLATILES																
TRIBUTYL PHOSPHATE	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045719	045374	045375	045376	045377
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1178	1179	1179	1179	1179
DEPTH:	-	-	-	-	-
DATE COLLECTED:	27-JUL-90	18-OCT-89	18-OCT-89	24-JAN-90	01-JUN-90
NORTH COORDINATE:	480719.82	480729.83	480729.83	480729.83	480729.83
EAST COORDINATE:	1380195.61	1380238.5	1380238.5	1380238.5	1380238.5
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.3900		-				0.1000		U	0.1000		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				568.0000	89	-				307.0000	55	J			
SEMIVOLATILES																
TRIBUTYL PHOSPHATE	UG/L													15.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120352			120352F			120354			120356			120356F			
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23			
LAB:		DATACHEM			DATACHEM			CORE			FERMCO			FERMCO			
WELL OR BORING NUMBER:		1179			1179			1179			1179			1179			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		16-JUN-93			16-JUN-93			16-JUN-93			16-JUN-93			16-JUN-93			
NORTH COORDINATE:		480729.83			480729.83			480729.83			480729.83			480729.83			
EAST COORDINATE:		1380238.5			1380238.5			1380238.5			1380238.5			1380238.5			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
ALKALINITY AS CACO3	MG/L	420.0000		-													
AMMONIA	MG/L	0.1000		-													
CHLORIDE	MG/L	55.0000		-													
FLUORIDE	MG/L	0.5000		-													
PHENOLS	MG/L	0.0020		U													
PHOSPHORUS	MG/L	3.9000		-													
SULFATE	MG/L	41.0000		-													
SULFIDE	MG/L	1.0000		U													
TOTAL KJELDAHL NITROGEN	MG/L	1.8000		-													
TOTAL ORGANIC CARBON	MG/L	4.0000		-													
TOTAL ORGANIC HALIDES	MG/L	0.0300		-													
TOTAL ORGANIC NITROGEN	MG/L	1.7000		-													
INORGANICS																	
ALUMINUM	MG/L	45.8000		-	0.0600		U										
ANTIMONY	MG/L	0.0157		U	0.0157		U										
ARSENIC	MG/L	0.0092		-	0.0020		U										
BARIUM	MG/L	0.2790		-	0.0933		-										
BERYLLIUM	MG/L	0.0031		U	0.0007		U										
CADMIUM	MG/L	0.0012		U	0.0012		U										
CALCIUM	MG/L	550.0000		-	164.0000		-										
CHROMIUM	MG/L	0.1260		-	0.0031		U										
COBALT	MG/L	0.0486		-	0.0034		U										
COPPER	MG/L	0.0878		-	0.0024		U										
CYANIDE	MG/L	0.0100		U	0.0100		U										
IRON	MG/L	95.3000		-	0.0267		U										
LEAD	MG/L	0.0484		J	0.0010		U										
MAGNESIUM	MG/L	196.0000		-	53.2000		-										
MANGANESE	MG/L	2.0500		-	0.3970		-										

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L				16.0000		-					7.0000		-	
06/21/94															
SAMPLE NUMBER:		046825			066911			098925			098931			045223	
LAB:					IT						IT				
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			-	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U				5.0000		U		
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U				5.0000		U		
1,1-DICHLOROETHANE	UG/L				9.0000		-				6.0000		-		
1,1-DICHLOROETHENE	UG/L				1.0000		J				5.0000		U		
1,2-DICHLOROETHANE	UG/L				5.0000		U				5.0000		U		
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U				5.0000		U		
1,2-DICHLOROPROPANE	UG/L				5.0000		U				5.0000		U		
2-BUTANONE	UG/L				10.0000		U				10.0000		U		
2-HEXANONE	UG/L				10.0000		U				10.0000		U		
4-METHYL-2-PENTANONE	UG/L				10.0000		U				10.0000		U		
ACETONE	UG/L				10.0000		U				10.0000		U		
BENZENE	UG/L				5.0000		UJ				5.0000		U		
BROMODICHLOROMETHANE	UG/L				5.0000		U				5.0000		U		
BROMOFORM	UG/L				5.0000		U				5.0000		U		
BROMOMETHANE	UG/L				10.0000		U				10.0000		U		
CARBON DISULFIDE	UG/L				5.0000		U				5.0000		U		
CARBON TETRACHLORIDE	UG/L				5.0000		U				5.0000		U		
CHLOROBENZENE	UG/L				5.0000		UJ				5.0000		U		
CHLOROETHANE	UG/L				10.0000		U				10.0000		U		
CHLOROFORM	UG/L				5.0000		U				5.0000		U		
CHLOROMETHANE	UG/L				10.0000		U				10.0000		U		
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				5.0000		U		
DIBROMOCHLOROMETHANE	UG/L				5.0000		U				5.0000		U		
ETHYLBENZENE	UG/L				5.0000		UJ				5.0000		U		
METHYLENE CHLORIDE	UG/L				5.0000		U				5.0000		U		
STYRENE	UG/L				5.0000		UJ				5.0000		U		
TETRACHLOROETHENE	UG/L				5.0000		U				5.0000		U		
TOLUENE	UG/L				5.0000		UJ				5.0000		U		
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				5.0000		U		
TRICHLOROETHENE	UG/L				5.0000		U				5.0000		U		
VINYL ACETATE	UG/L				10.0000		U				10.0000		U		
VINYL CHLORIDE	UG/L				10.0000		U				10.0000		U		
XYLENES, TOTAL	UG/L				5.0000		UJ				5.0000		U		

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045224	045747	045748	066912	099028
TASK:	3.7	3.7	3.7	3.7	50.03.07
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1213	1213	1213	1213	1213
DEPTH:	-	-	-	-9.65	-
DATE COLLECTED:	22-OCT-89	22-OCT-89	18-FEB-90	16-JUL-90	03-NOV-92
NORTH COORDINATE:	480519.86	480519.86	480519.86	480519.86	480519.86
EAST COORDINATE:	1380217.86	1380217.86	1380217.86	1380217.86	1380217.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					099030
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													290.0000		-
AMMONIA	MG/L													0.3000		-
CHLORIDE	MG/L													8.1500		-
FLUORIDE	MG/L													1.5000		-
NITRATE	MG/L	0.1000		U				0.1000		U				0.1000		UJ
PHENOLS	MG/L													0.0100		U
PHOSPHORUS	MG/L													1.7200		-
SULFATE	MG/L													60.7000		-
SULFIDE	MG/L													5.4500		-
TOTAL ORGANIC CARBON	MG/L													2.9000		-
TOTAL ORGANIC HALIDES	MG/L													20.1000		-
TOTAL ORGANIC NITROGEN	MG/L													0.8600		-
INORGANICS																
ALUMINUM	MG/L										0.3450		-	0.1650		U
ANTIMONY	MG/L										0.0396		-	0.0050		U
ARSENIC	MG/L										0.0020		UJ	0.0034		J
BARIUM	MG/L										0.1630		-	0.0877		-
BERYLLIUM	MG/L										0.0037		-	0.0020		-
CADMIUM	MG/L										0.0075		U	0.0050		-
CALCIUM	MG/L										115.0000		J	84.0000		-
CHROMIUM	MG/L										0.1030		-	0.0100		-
COBALT	MG/L										0.0173		U	0.0100		-
COPPER	MG/L										0.0221		-	0.0100		-
CYANIDE	MG/L										0.0020		UJ	0.0020		U
IRON	MG/L										0.1210		-	0.1250		-
LEAD	MG/L										0.0020		U	0.0025		-
MAGNESIUM	MG/L										40.9000		J	29.9000		-
MANGANESE	MG/L										1.9300		J	1.3000		-

SAMPLE NUMBER:		045224			045747			045748			066912			099028		
LAB:											IT			IT		
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L										0.0002		UR	0.0002		-
MOLYBDENUM	MG/L													0.0200		-
NICKEL	MG/L										0.0282		-	0.0200		-
POTASSIUM	MG/L										2.5900		-	2.1800		-
SELENIUM	MG/L										0.0020		UJ	0.0020		UJ
SILICON	MG/L													5.6600		-
SILVER	MG/L										0.0428		-	0.0100		-
SODIUM	MG/L										21.2000		J	11.0000		-
THALLIUM	MG/L										0.0020		UJ	0.0100		-
VANADIUM	MG/L										0.0380		-	0.0100		-
ZINC	MG/L										0.0162		-	0.0050		-
PESTICIDES																
4,4'-DDD	UG/L										0.5000		UR	0.1000		U
4,4'-DDE	UG/L										0.1000		U	0.1000		U
4,4'-DDT	UG/L										0.5000		UR	0.1000		U
ALDRIN	UG/L										0.2500		UR	0.0500		U
ALPHA-BHC	UG/L										0.0500		U	0.0500		U
ALPHA-CHLORDANE	UG/L										2.5000		UR	0.5000		U
AROCLOR-1016	UG/L										2.5000		UR	0.5000		U
AROCLOR-1221	UG/L										0.5000		U	0.5000		U
AROCLOR-1232	UG/L										2.5000		UR	0.5000		U
AROCLOR-1242	UG/L										0.5000		U	0.5000		U
AROCLOR-1248	UG/L										2.5000		UR	0.5000		U
AROCLOR-1254	UG/L										1.0000		U	1.0000		U
AROCLOR-1260	UG/L										5.0000		UR	1.0000		U
BETA-BHC	UG/L										0.0500		U	0.0500		U
DELTA-BHC	UG/L										0.0500		U	0.0500		U
DIELDRIN	UG/L										0.1000		U	0.1000		U
ENDOSULFAN II	UG/L										0.5000		UR	0.1000		U
ENDOSULFAN SULFATE	UG/L										0.1000		U	0.1000		U
ENDOSULFAN-I	UG/L										0.2500		UR	0.0500		U
ENDRIN	UG/L										0.1000		U	0.1000		U
ENDRIN KETONE	UG/L										0.5000		UR	0.1000		U
GAMMA-BHC (LINDANE)	UG/L										0.2500		UR	0.0500		U
GAMMA-CHLORDANE	UG/L										0.5000		U	0.5000		U
HEPTACHLOR	UG/L										0.2500		UR	0.0500		U
HEPTACHLOR EPOXIDE	UG/L										0.0500		U	0.0500		U
METHOXYCHLOR	UG/L										0.5000		U	0.5000		U
TOXAPHENE	UG/L										5.0000		UR	1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L										4240.0000	580	J			

SAMPLE NUMBER:		045224			045747			045748			066912			099028		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				17300.0000	2400	-				4550.0000	660	-	9540.0000	1300	-
URANIUM-234	PCI/L										5060.0000	680	J			
THORIUM-230	PCI/L										2.6800	1.63	-			
RADIUM-226	PCI/L										2.2200	.48	N	1.0000	.2	UJ
URANIUM-235/236	PCI/L										301.0000	680	J			
THORIUM-232	PCI/L										2.2400	1.53	-			
THORIUM, TOTAL	UG/L										20.2000	13.8	-			
RADIUM-228	PCI/L										4.2800	1.07	-	3.0000	1.1	UJ
THORIUM-228	PCI/L										2.0000		U			
NEPTUNIUM-237	PCI/L										8.6000		U			
PLUTONIUM-239/240	PCI/L										1.0000		UJ			
PLUTONIUM-238	PCI/L										1.0000		UJ			
STRONTIUM-90	PCI/L										5.0000		U	1.0000		UJ
TECHNETIUM-99	PCI/L										30.0000		UJ	15.0000		UJ
RUTHENIUM-106	PCI/L										150.0000		R	150.0000		UJ
CESIUM-137	PCI/L										20.0000		R	14.0000		UJ
GROSS ALPHA	PCI/L													6600.0000	670	NV
GROSS BETA	PCI/L													3450.0000	350	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U	10.0000		U
1,2-DICHLOROBENZENE	UG/L										10.0000		U	10.0000		U
1,3-DICHLOROBENZENE	UG/L										10.0000		U	10.0000		U
1,4-DICHLOROBENZENE	UG/L										10.0000		U	10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		U	50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U	10.0000		U
2,4-DICHLOROPHENOL	UG/L										10.0000		U	10.0000		U
2,4-DIMETHYLPHENOL	UG/L										10.0000		U	10.0000		U
2,4-DINITROPHENOL	UG/L										50.0000		UJ	50.0000		UJ
2,4-DINITROTOLUENE	UG/L										10.0000		U	10.0000		U
2,6-DINITROTOLUENE	UG/L										10.0000		U	10.0000		U
2-CHLORONAPHTHALENE	UG/L										10.0000		U	10.0000		U
2-CHLOROPHENOL	UG/L										10.0000		U	10.0000		U
2-METHYLNAPHTHALENE	UG/L										10.0000		U	10.0000		U
2-METHYLPHENOL	UG/L										10.0000		U	10.0000		U
2-NITROANILINE	UG/L										50.0000		U	50.0000		U
2-NITROPHENOL	UG/L										10.0000		U	10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		U	20.0000		U
3-NITROANILINE	UG/L										50.0000		U	50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		UJ	50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U	10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U	10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U	10.0000		U
4-METHYLPHENOL	UG/L										10.0000		U	10.0000		U

SAMPLE NUMBER:	045224			045747			045748			066912			099028		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4-NITROANILINE UG/L										50.0000		U	50.0000		U
4-NITROPHENOL UG/L										50.0000		U	50.0000		U
ACENAPHTHENE UG/L										10.0000		U	10.0000		U
ACENAPHTHYLENE UG/L										10.0000		U	10.0000		U
ANTHRACENE UG/L										10.0000		U	10.0000		U
BENZO(A)ANTHRACENE UG/L										10.0000		U	10.0000		U
BENZO(A)PYRENE UG/L										10.0000		U	10.0000		U
BENZO(B)FLUORANTHENE UG/L										10.0000		U	10.0000		U
BENZO(G,H,I)PERYLENE UG/L										10.0000		UJ	10.0000		U
BENZO(K)FLUORANTHENE UG/L										10.0000		U	10.0000		U
BENZOIC ACID UG/L										50.0000		UJ	50.0000		U
BENZYL ALCOHOL UG/L										10.0000		U	10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		UJ	10.0000		U
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		UJ	10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		U	10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										10.0000		U	10.0000		U
BUTYL BENZYL PHTHALATE UG/L										10.0000		U	10.0000		U
CHRYSENE UG/L										10.0000		U	10.0000		U
DI-N-BUTYL PHTHALATE UG/L										10.0000		U	10.0000		U
DI-N-OCTYL PHTHALATE UG/L										10.0000		U	10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		UJ	10.0000		U
DIBENZOFURAN UG/L										10.0000		U	10.0000		U
DIETHYL PHTHALATE UG/L										10.0000		U	10.0000		U
DIMETHYL PHTHALATE UG/L										10.0000		U	10.0000		U
FLUORANTHENE UG/L										10.0000		U	10.0000		U
FLUORENE UG/L										10.0000		U	10.0000		U
HEXACHLOROBENZENE UG/L										10.0000		U	10.0000		U
HEXACHLOROBUTADIENE UG/L										10.0000		U	10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		U	10.0000		U
HEXACHLOROETHANE UG/L										10.0000		U	10.0000		U
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		UJ	10.0000		U
ISOPHORONE UG/L										10.0000		UJ	10.0000		U
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U	10.0000		U
N-NITROSODIPHENYLAMINE UG/L										10.0000		U	10.0000		U
NAPHTHALENE UG/L										10.0000		U	10.0000		U
NITROBENZENE UG/L										10.0000		UJ	10.0000		U
P-CHLOROANILINE UG/L										10.0000		U	10.0000		U
PENTACHLOROPHENOL UG/L										50.0000		U	50.0000		U
PHENANTHRENE UG/L										10.0000		U	10.0000		U
PHENOL MG/L										10.0000		U	10.0000		U
PYRENE UG/L										10.0000		U	10.0000		U
TRIBUTYL PHOSPHATE UG/L													110.0000		-
VOLATILES															

1,1,1-TRICHLOROETHANE	UG/L											5.0000		U	5.0000		U
SAMPLE NUMBER:		045224			045747			045748			066912			099028			
LAB:											IT			IT			
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																	
1,1,2,2-TETRACHLOROETHANE	UG/L										5.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L										4.0000		J	5.0000		U
1,1-DICHLOROETHENE	UG/L										5.0000		U	5.0000		U
1,2-DICHLOROETHANE	UG/L										5.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U	5.0000		U
1,2-DICHLOROPROPANE	UG/L										5.0000		U	5.0000		U
2-BUTANONE	UG/L										10.0000		U	10.0000		UJ
2-HEXANONE	UG/L										10.0000		U	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L										10.0000		U	10.0000		UJ
ACETONE	UG/L										10.0000		U	4.0000		J
BENZENE	UG/L										5.0000		UJ	5.0000		U
BROMODICHLOROMETHANE	UG/L										5.0000		U	5.0000		U
BROMOFORM	UG/L										5.0000		U	5.0000		U
BROMOMETHANE	UG/L										10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L										5.0000		U	5.0000		U
CARBON TETRACHLORIDE	UG/L										5.0000		U	5.0000		U
CHLOROBENZENE	UG/L										5.0000		UJ	5.0000		U
CHLOROETHANE	UG/L										10.0000		U	10.0000		U
CHLOROFORM	UG/L										5.0000		U	5.0000		U
CHLOROMETHANE	UG/L										10.0000		U	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U	5.0000		U
DIBROMOCHLOROMETHANE	UG/L										5.0000		U	5.0000		U
ETHYLBENZENE	UG/L										5.0000		UJ	5.0000		U
METHYLENE CHLORIDE	UG/L										5.0000		U	6.0000		UJ
STYRENE	UG/L										5.0000		UJ	5.0000		U
TETRACHLOROETHENE	UG/L										5.0000		U	5.0000		U
TOLUENE	UG/L										5.0000		UJ	5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L										5.0000		U	5.0000		U
VINYL ACETATE	UG/L										10.0000		U	10.0000		UJ
VINYL CHLORIDE	UG/L										10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L										5.0000		UJ	5.0000		U

SAMPLE NUMBER:		099029			108858			046788			046789			120256		
LAB:														TCT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L													96.6000		-
MANGANESE	MG/L													0.3460		-
MERCURY	MG/L													0.0001		U
MOLYBDENUM	MG/L													0.0170		U
NICKEL	MG/L													0.0180		U
POTASSIUM	MG/L													2.3800		-
SELENIUM	MG/L													0.0050		UR
SILICON	MG/L													6.3800		J
SILVER	MG/L													0.0010		U
SODIUM	MG/L													29.0000		-
THALLIUM	MG/L													0.0010		U
VANADIUM	MG/L													0.2660		-
ZINC	MG/L													0.0344		U
RADIONUCLIDES																
URANIUM-238	PCI/L				4180.0000	956	J									
URANIUM, TOTAL	UG/L				11200.0000	1500	-	2156.0000	247	-						
URANIUM-234	PCI/L				4920.0000	111	J									
THORIUM-230	PCI/L				0.2000	.1	UJ									
RADIUM-226	PCI/L				1.0000	.09	UJ									
URANIUM-235/236	PCI/L				247.0000	115	J									
THORIUM-232	PCI/L				0.2000		UJ									
THORIUM, TOTAL	UG/L				0.5100		UJ									
RADIUM-228	PCI/L				3.0000		UJ									
THORIUM-228	PCI/L				0.2000		UJ									
PLUTONIUM-239/240	PCI/L				0.5000	.1115	UJ									
PLUTONIUM-238	PCI/L				0.9130	.291	J									
STRONTIUM-90	PCI/L				1.4000		UJ									
TECHNETIUM-99	PCI/L				15.0000		UJ									
RUTHENIUM-106	PCI/L				150.0000		UJ									
CESIUM-137	PCI/L				12.0000		UJ									
GROSS ALPHA	PCI/L				9500.0000	960	NV									
GROSS BETA	PCI/L				4010.0000	400	NV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													7.0000		J
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													3.0000		J
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		U
1,2-DICHLOROPROPANE	UG/L													10.0000		U

SAMPLE NUMBER:		099029			108858			046788			046789			120256		
LAB:														TCT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-BUTANONE	UG/L													10.0000		UJ
2-HEXANONE	UG/L													10.0000		UJ
4-METHYL-2-PENTANONE	UG/L													10.0000		UJ
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													3.0000		J
TOLUENE	UG/L													10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL ACETATE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120257			120257F			120259			120259F			046638		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			3.7		
LAB:		CORE			CORE			FERMCO			FERMCO			IT		
WELL OR BORING NUMBER:		1214			1214			1214			1214			1215		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		29-JUN-93			29-JUN-93			29-JUN-93			29-JUN-93			01-NOV-89		
NORTH COORDINATE:		480469.95			480469.95			480469.95			480469.95			480505.99		
EAST COORDINATE:		1380286.69			1380286.69			1380286.69			1380286.69			1380534.02		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	18300.0000		-	108.0000	134	J									
URANIUM, TOTAL	UG/L	75400.0000		-	77600.0000	5430	-	57000.0000		NV	46000.0000		NV	1170.0000	170	-
URANIUM-234	PCI/L	23100.0000		J	114.0000	132	J									
THORIUM-230	PCI/L	0.4000	.4	J	0.3000	.2	UJ									
RADIUM-226	PCI/L	5.1000	.8	J	1.0000	.3	UJ									
URANIUM-235/236	PCI/L	1850.0000	1	-	35.9000	82.4	J									
THORIUM-232	PCI/L	0.2000	1	U	0.2000	.1	UJ									
THORIUM, TOTAL	UG/L	1.8241	1	NV												
RADIUM-228	PCI/L	3.0000	1.4	U	3.0000	.8	UJ									
THORIUM-228	PCI/L	0.5000	1.4	-	0.8000	.3	J									
TECHNETIUM-99	PCI/L	1400.0000	8.9	-	1030.0000	57.4	J									
GROSS ALPHA	PCI/L	36500.0000		NV												
GROSS BETA	PCI/L	16000.0000		NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046639	046640	046641	098938	098939
TASK:	3.7	3.7	3.7	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	WMCO
WELL OR BORING NUMBER:	1215	1215	1215	1215	1215
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-NOV-89	29-JUL-90	29-JUL-90	25-JUN-92	25-JUN-92
NORTH COORDINATE:	480505.99	480505.99	480505.99	480505.99	480505.99
EAST COORDINATE:	1380534.02	1380534.02	1380534.02	1380534.02	1380534.02
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										2.3200		-			
CHLORIDE	MG/L										10.1000		-			
FLUORIDE	MG/L										0.6600		-			
NITRATE	MG/L	3.4600		-				1.5900		-						
NITRATE/NITRITE	MG/L										1.0800		-			
PHENOLS	MG/L										0.0100		U			
PHOSPHORUS	MG/L										1.2300		-			
SULFATE	MG/L										19.9000		-			
SULFIDE	MG/L										0.5000		U			
TOTAL ORGANIC CARBON	MG/L										1.2140		-			
TOTAL ORGANIC HALIDES	MG/L										0.0222		-			
TOTAL ORGANIC NITROGEN	MG/L										0.1000		-			
INORGANICS																
ALUMINUM	MG/L										0.0300		U			
ARSENIC	MG/L										0.0020		U			
BARIUM	MG/L										0.0460		-			
CADMIUM	MG/L										0.0050		U			
CALCIUM	MG/L										73.5000		-			
CHROMIUM	MG/L										0.0100		U			
COPPER	MG/L										0.0100		U			
IRON	MG/L										0.0200		U			
LEAD	MG/L										0.0020		U			
MAGNESIUM	MG/L										14.8000		-			
MANGANESE	MG/L										0.0609		-			
MERCURY	MG/L										0.0002		U			
MOLYBDENUM	MG/L										0.0407		-			
NICKEL	MG/L										0.0200		U			
POTASSIUM	MG/L										5.5800		-			

SAMPLE NUMBER:	046639	046640	046641	098938	098939
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-FIL	-

		046639 RESULT	SIGMA	VAL QUAL(1)	046640 RESULT	SIGMA	VAL QUAL(1)	046641 RESULT	SIGMA	VAL QUAL(1)	098938 RESULT	SIGMA	VAL QUAL(1)	098939 RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SELENIUM	MG/L										0.0020		UJ			
SILICON	MG/L										4.2100		-			
SILVER	MG/L										0.0100		UJ			
SODIUM	MG/L										22.9000		-			
VANADIUM	MG/L										0.0100		U			
RADIONUCLIDES																
URANIUM-238	PCI/L										544.0000	108	J			
URANIUM, TOTAL	UG/L				2090.0000	271	-				1390.0000	200	-	1300.0000		NV
URANIUM-234	PCI/L										651.0000	123	J			
THORIUM-230	PCI/L										1.0000		U			
RADIUM-226	PCI/L										1.0000		UJ			
URANIUM-235/236	PCI/L										46.9000	24.2	J			
THORIUM-232	PCI/L										1.0000		U			
THORIUM, TOTAL	UG/L										1.0000		U			
RADIUM-228	PCI/L										3.0000		UJ			
THORIUM-228	PCI/L										1.0000		U			
PLUTONIUM-239/240	PCI/L										1.0000		U			
PLUTONIUM-238	PCI/L										1.0000		U			
STRONTIUM-90	PCI/L										5.0000		UJ			
TECHNETIUM-99	PCI/L										98.9000	19.1	J			
RUTHENIUM-106	PCI/L										150.0000		UJ			
CESIUM-137	PCI/L										20.0000		UJ			
GROSS ALPHA	PCI/L										1000.0000	110	NV			
GROSS BETA	PCI/L										327.0000	35	NV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										5.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHENE	UG/L										5.0000		U			
1,2-DICHLOROETHANE	UG/L										5.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U			
1,2-DICHLOROPROPANE	UG/L										5.0000		U			
2-BUTANONE	UG/L										1.0000		J			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										5.0000		U			
BROMODICHLOROMETHANE	UG/L										5.0000		U			
BROMOFORM	UG/L										5.0000		U			
BROMOMETHANE	UG/L										10.0000		U			

SAMPLE NUMBER:	046639	046640	046641	098938	098939
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CARBON DISULFIDE	UG/L										5.0000		U			
CARBON TETRACHLORIDE	UG/L										5.0000		U			
CHLOROBENZENE	UG/L										5.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										5.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
DIBROMOCHLOROMETHANE	UG/L										5.0000		U			
ETHYLBENZENE	UG/L										5.0000		U			
METHYLENE CHLORIDE	UG/L										5.0000		U			
STYRENE	UG/L										5.0000		U			
TETRACHLOROETHENE	UG/L										5.0000		U			
TOLUENE	UG/L										5.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
TRICHLOROETHENE	UG/L										2.0000		J			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		099004			099007			046632			046633			046634		
TASK:		50.03.07			50.03.07			3.7			3.7			3.7		
LAB:		IT			WMCO			IT			IT			IT		
WELL OR BORING NUMBER:		1215			1215			1216			1216			1216		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		15-OCT-92			15-OCT-92			01-NOV-89			01-NOV-89			01-NOV-89		
NORTH COORDINATE:		480505.99			480505.99			480465.42			480465.42			480465.42		
EAST COORDINATE:		1380534.02			1380534.02			1380461.5			1380461.5			1380461.5		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			DUPLICATE		
QC OF:														046632		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	258.0000		-												
AMMONIA	MG/L	2.4800		-												
CHLORIDE	MG/L	9.5000		-												
FLUORIDE	MG/L	0.7000		-												
NITRATE	MG/L	0.2830		-							89.6000		-			
PHENOLS	MG/L	0.0100		U												
PHOSPHORUS	MG/L	0.7000		-												
SULFATE	MG/L	59.7000		J												
SULFIDE	MG/L	0.5000		U												
TOTAL ORGANIC CARBON	MG/L	1.4200		-												
TOTAL ORGANIC HALIDES	MG/L	0.0359		-												
TOTAL ORGANIC NITROGEN	MG/L	0.6000		-												
INORGANICS																
ALUMINUM	MG/L	0.0300		U												
ANTIMONY	MG/L	0.0050		U												
ARSENIC	MG/L	0.0025		U												
BARIUM	MG/L	0.0486		-												
BERYLLIUM	MG/L	0.0020		U												
CADMIUM	MG/L	0.0050		U												
CALCIUM	MG/L	77.0000		-												
CHROMIUM	MG/L	0.0100		U												
COBALT	MG/L	0.0100		U												
COPPER	MG/L	0.0100		U												
CYANIDE	MG/L	0.0020		U												
IRON	MG/L	0.0200		U												
LEAD	MG/L	0.0025		U												
MAGNESIUM	MG/L	15.0000		-												
MANGANESE	MG/L	0.0697		-												

SAMPLE NUMBER:		099004		099007			046632			046633			046634		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U												
MOLYBDENUM	MG/L	0.0315		-												
NICKEL	MG/L	0.0200		U												
POTASSIUM	MG/L	6.6000		-												
SELENIUM	MG/L	0.0020		U												
SILICON	MG/L	4.4500		-												
SILVER	MG/L	0.0100		U												
SODIUM	MG/L	22.5000		-												
THALLIUM	MG/L	0.0020		U												
VANADIUM	MG/L	0.0100		U												
ZINC	MG/L	0.0050		U												
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U												
4,4'-DDE	UG/L	0.1000		U												
4,4'-DDT	UG/L	0.1000		U												
ALDRIN	UG/L	0.0500		U												
ALPHA-BHC	UG/L	0.0500		U												
ALPHA-CHLORDANE	UG/L	0.5000		U												
AROCLOR-1016	UG/L	0.5000		U												
AROCLOR-1221	UG/L	0.5000		U												
AROCLOR-1232	UG/L	0.5000		U												
AROCLOR-1242	UG/L	0.5000		U												
AROCLOR-1248	UG/L	0.5000		U												
AROCLOR-1254	UG/L	1.0000		U												
AROCLOR-1260	UG/L	1.0000		U												
BETA-BHC	UG/L	0.0500		U												
DELTA-BHC	UG/L	0.0500		U												
DIELDRIN	UG/L	0.1000		U												
ENDOSULFAN II	UG/L	0.1000		U												
ENDOSULFAN SULFATE	UG/L	0.1000		U												
ENDOSULFAN-I	UG/L	0.0500		U												
ENDRIN	UG/L	0.1000		U												
ENDRIN KETONE	UG/L	0.1000		U												
GAMMA-BHC (LINDANE)	UG/L	0.0500		U												
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U												
HEPTACHLOR EPOXIDE	UG/L	0.0500		U												
METHOXYCHLOR	UG/L	0.5000		U												
TOXAPHENE	UG/L	1.0000		U												
RADIONUCLIDES																
URANIUM-238	PCI/L	468.00087		R												

SAMPLE NUMBER:	099004			099007		046632			046633			046634		
LAB:	IT													
SUFFIX/FILTERFLAG:	NONE-FIL			-		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	1300.00	09	-	1100.0000		NV	215.0000	35	-				243.0000	41	J
URANIUM-234	PCI/L	547.00	07	R												
RADIUM-226	PCI/L	1.0000		UJ												
URANIUM-235/236	PCI/L	25.50	008.8	R												
RADIUM-228	PCI/L	3.0000		UJ												
NEPTUNIUM-237	PCI/L	0.5000	.192	UJ												
PLUTONIUM-239/240	PCI/L	1.0000		R												
PLUTONIUM-238	PCI/L	1.0000		R												
STRONTIUM-90	PCI/L	2.0900	.483	J												
TECHNETIUM-99	PCI/L	76.10	0018	J												
RUTHENIUM-106	PCI/L	150.0000		UJ												
CESIUM-137	PCI/L	17.6000		UJ												
GROSS ALPHA	PCI/L	1820.00	090	NV												
GROSS BETA	PCI/L	336.00	85	NV												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		U												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ												
3-NITROANILINE	UG/L	50.0000		UJ												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		UJ												
4-NITROPHENOL	UG/L	50.0000		U												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												

SAMPLE NUMBER:		099004		099007			046632			046633			046634		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		U												
BENZYL ALCOHOL	UG/L	10.0000		U												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U												
CARBAZOLE	UG/L	10.0000		U												
CHRYSENE	UG/L	10.0000		U												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												
DIMETHYL PHTHALATE	UG/L	10.0000		U												
FLUORANTHENE	UG/L	10.0000		U												
FLUORENE	UG/L	10.0000		U												
HEXACHLOROBENZENE	UG/L	10.0000		U												
HEXACHLOROBUTADIENE	UG/L	10.0000		U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U												
HEXACHLOROETHANE	UG/L	10.0000		U												
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U												
ISOPHORONE	UG/L	10.0000		U												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U												
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U												
NAPHTHALENE	UG/L	10.0000		U												
NITROBENZENE	UG/L	10.0000		U												
P-CHLOROANILINE	UG/L	10.0000		U												
PENTACHLOROPHENOL	UG/L	50.0000		U												
PHENANTHRENE	UG/L	10.0000		U												
PHENOL	MG/L	10.0000		U												
PYRENE	UG/L	10.0000		U												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U												
1,1-DICHLOROETHANE	UG/L	5.0000		UJ												

SAMPLE NUMBER:	099004			099007			046632			046633			046634		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHENE	UG/L	5.0000		U												
1,2-DICHLOROETHANE	UG/L	5.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U												
1,2-DICHLOROPROPANE	UG/L	5.0000		U												
2-BUTANONE	UG/L	10.0000		UJ												
2-HEXANONE	UG/L	10.0000		UJ												
4-METHYL-2-PENTANONE	UG/L	10.0000		UJ												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	5.0000		U												
BROMODICHLOROMETHANE	UG/L	5.0000		U												
BROMOFORM	UG/L	5.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	5.0000		U												
CARBON TETRACHLORIDE	UG/L	5.0000		U												
CHLOROBENZENE	UG/L	5.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	5.0000		U												
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
DIBROMOCHLOROMETHANE	UG/L	5.0000		U												
ETHYLBENZENE	UG/L	5.0000		U												
METHYLENE CHLORIDE	UG/L	5.0000		U												
STYRENE	UG/L	5.0000		U												
TETRACHLOROETHENE	UG/L	5.0000		U												
TOLUENE	UG/L	5.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
TRICHLOROETHENE	UG/L	3.0000		J												
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	5.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046635	046636	046637	120201	120201F
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	1216	1216	1216	1216	1216
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-NOV-89	12-AUG-90	12-AUG-90	09-JUN-93	09-JUN-93
NORTH COORDINATE:	480465.42	480465.42	480465.42	480465.42	480465.42
EAST COORDINATE:	1380461.5	1380461.5	1380461.5	1380461.5	1380461.5
QA TYPE:	DUPLICATE	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:	046633				
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										220.0000		-			
AMMONIA	MG/L										0.0800		-			
CHLORIDE	MG/L										16.0000		-			
FLUORIDE	MG/L										0.7000		-			
NITRATE	MG/L	88.7000		-				52.0000		-						
NITRATE/NITRITE	MG/L										12.0000		-			
PHENOLS	MG/L										0.0020		U			
PHOSPHORUS	MG/L										3.0000		-			
SULFATE	MG/L										120.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										2.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0300		-			
INORGANICS																
ALUMINUM	MG/L										33.0000		-	0.0600		U
ANTIMONY	MG/L										0.0157		U	0.0157		U
ARSENIC	MG/L										0.0048		-	0.0010		U
BARIUM	MG/L										0.2020		-	0.0254		-
BERYLLIUM	MG/L										0.0026		U	0.0006		U
CADMIUM	MG/L										0.0012		U	0.0012		U
CALCIUM	MG/L										321.0000		-	125.0000		-
CHROMIUM	MG/L										0.0548		-	0.0067		U
COBALT	MG/L										0.0273		U	0.0034		U
COPPER	MG/L										0.0635		-	0.0024		U
CYANIDE	MG/L										0.0100		U	0.0100		U
IRON	MG/L										73.2000		-	0.0307		U
LEAD	MG/L										0.0156		-	0.0010		U
MAGNESIUM	MG/L										103.0000		-	30.6000		-
MANGANESE	MG/L										1.2300		-	0.1840		-

001407

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 888

SAMPLE NUMBER:		046635			046636			046637			120201 DATACHEM NONE-UNF			120201F DATACHEM NONE-FIL		
LAB:																
SUFFIX/FILTERFLAG:		-			-			-								
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L										0.0002		U	0.0002		U
NICKEL	MG/L										0.0624		-	0.0123		U
POTASSIUM	MG/L										10.7000		-	2.7100		-
SELENIUM	MG/L										0.0020		UJ	0.0020		U
SILVER	MG/L										0.0029		UJ	0.0029		UJ
SODIUM	MG/L										17.5000		-	16.5000		-
THALLIUM	MG/L										0.0010		U	0.0010		U
VANADIUM	MG/L										0.0695		-	0.0029		U
ZINC	MG/L										0.3700		-	0.0126		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				244.0000	37	-									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										3.0000		J			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		UJ			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			

C01408

5704

SAMPLE NUMBER:	046635			046636			046637			120201			120201F		
LAB:										DATACHEM					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRANS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
TRICHLOROETHENE UG/L										4.0000		J			
VINYL CHLORIDE UG/L										10.0000		U			
XYLENES, TOTAL UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120203	120203F	120204	120204F	046734
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	3.7
LAB:	FERMCO	FERMCO	CORE	CORE	IT
WELL OR BORING NUMBER:	1216	1216	1216	1216	1217
DEPTH:	-	-	-	-	-
DATE COLLECTED:	09-JUN-93	09-JUN-93	09-JUN-93	09-JUN-93	18-JAN-90
NORTH COORDINATE:	480465.42	480465.42	480465.42	480465.42	480504.69
EAST COORDINATE:	1380461.5	1380461.5	1380461.5	1380461.5	1380625.12
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													29.9000		-
RADIONUCLIDES																
URANIUM-238	PCI/L							162.0000	17.9	J	146.0000	24.7	J			
URANIUM, TOTAL	UG/L	390.0000		NV	420.0000		NV	508.0000	35.6	-	408.0000	28.5	-	3606.0000	.596	-
URANIUM-234	PCI/L							202.0000	22.8	J	179.0000	29.7	J			
THORIUM-230	PCI/L							0.8000	.4	J	0.3000	.2	R			
RADIUM-226	PCI/L							2.8000	.7	-	1.0000	.3	UJ			
URANIUM-235/236	PCI/L							7.7000	2.2	J	8.3000	2.9	J			
THORIUM-232	PCI/L							0.3000	.3	J	0.1000	.3	R			
THORIUM, TOTAL	UG/L							2.7361	.3	NV						
RADIUM-228	PCI/L							3.0000	1.3	U	3.0000	1	U			
THORIUM-228	PCI/L							0.6000	.4	J	0.1000	.4	R			
TECHNETIUM-99	PCI/L							290.0000	22	J	239.0000	20.3	J			
GROSS ALPHA	PCI/L							331.0000	30.4	NV	173.0000	9.9	NV			
GROSS BETA	PCI/L							358.0000	20.4	NV	233.0000	6.8	NV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046735	046736	046737	045144	045751
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	WMCO	IT
WELL OR BORING NUMBER:	1217	1217	1217	1218	1218
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-JAN-90	22-AUG-90	22-AUG-90	05-MAY-89	22-OCT-89
NORTH COORDINATE:	480504.69	480504.69	480504.69	480411.88	480411.88
EAST COORDINATE:	1380625.12	1380625.12	1380625.12	1379952.56	1379952.56
QA TYPE:	DUPLICATE	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:	046734				
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	27.4000		-				22.8000		-				0.1000		U
RADIONUCLIDES																
URANIUM-238	PCI/L										21.0000		NV			
URANIUM, TOTAL	UG/L	5391.00001		-	3430.0000	530	-				43.0000		NV			
URANIUM-234	PCI/L										15.0000		NV			
URANIUM-235	PCI/L										1.0000		NV			
URANIUM-236	PCI/L										0.2800		NV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045752	045753	118304	118305	118308
TASK:	3.7	3.7	50.03.23	50.03.23	50.03.23
LAB:	IT	IT	LOCKHEED	LOCKHEED	FERMCO
WELL OR BORING NUMBER:	1218	1218	1218	1218	1218
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-OCT-89	06-MAY-90	17-MAY-93	17-MAY-93	17-MAY-93
NORTH COORDINATE:	480411.88	480411.88	480411.88	480411.88	480411.88
EAST COORDINATE:	1379952.56	1379952.56	1379952.56	1379952.56	1379952.56
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L							0.0500		U						
NITRATE	MG/L				7.7000		-									
NITRATE/NITRITE	MG/L							0.5100		-						
PHENOLS	MG/L							0.0200		U						
PHOSPHORUS	MG/L							1.3000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL ORGANIC CARBON	MG/L							2.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0100		U						
INORGANICS																
ALUMINUM	MG/L							14.7000		-	0.0140		U			
ANTIMONY	MG/L							0.0450		U	0.0450		U			
ARSENIC	MG/L							0.0036		UJ	0.0010		UJ			
BARIUM	MG/L							0.1240		-	0.0307		-			
BERYLLIUM	MG/L							0.0019		U	0.0010		U			
CADMIUM	MG/L							0.0051		J	0.0030		U			
CALCIUM	MG/L							277.0000		-	166.0000		-			
CHROMIUM	MG/L							0.0174		J	0.0040		UJ			
COBALT	MG/L							0.0105		-	0.0060		U			
COPPER	MG/L							0.0256		U	0.0040		U			
CYANIDE	MG/L							0.0100		UJ	0.0100		UJ			
IRON	MG/L							29.6000		-	0.0274		U			
LEAD	MG/L							0.0103		UJ	0.0012		UJ			
MAGNESIUM	MG/L							105.0000		-	59.4000		-			
MANGANESE	MG/L							0.4200		-	0.0037		U			
MERCURY	MG/L							0.0002		U	0.0002		U			
NICKEL	MG/L							0.0300		U	0.0190		U			
POTASSIUM	MG/L							4.6300		-	0.5050		U			
SELENIUM	MG/L							0.0020		UJ	0.0010		UJ			

001412

5704

SAMPLE NUMBER:		045752			045753			118304			118305			118308		
LAB:								LOCKHEED			LOCKHEED					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L							0.0030		UJ	0.0030		UJ			
SODIUM	MG/L							19.4000		-	20.2000		-			
THALLIUM	MG/L							0.0010		UJ	0.0010		UJ			
VANADIUM	MG/L							0.0374		U	0.0058		U			
ZINC	MG/L							0.0851		-	0.0060		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	58.00006		J										74.0000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118309			118310			118311			045195			045196		
TASK:		50.03.23			50.03.23			50.03.23			3.7			3.7		
LAB:		FERMCO			CORE			CORE			WMCO			IT		
WELL OR BORING NUMBER:		1218			1218			1218			1219			1219		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		17-MAY-93			17-MAY-93			17-MAY-93			02-JUN-89			22-OCT-89		
NORTH COORDINATE:		480411.88			480411.88			480411.88			480402.02			480402.02		
EAST COORDINATE:		1379952.56			1379952.56			1379952.56			1380090.95			1380090.95		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													22.2000		-
RADIONUCLIDES																
URANIUM-238	PCI/L				34.2000	4.2	J	37.3000	4.5	J	510.0000		NV			
URANIUM, TOTAL	UG/L	98.0000		NV	82.1000	5.7	J	91.6000	6.4	J	1100.0000		NV			
URANIUM-234	PCI/L				33.1000	4.1	J	30.7000	3.8	J	640.0000		NV			
THORIUM-230	PCI/L				0.3000	.3	J	0.2000	.2	UJ						
RADIUM-226	PCI/L				1.0000	.6	UJ	1.0000	.5	UJ						
URANIUM-235/236	PCI/L				2.0000	.7	J	3.0000	.8	J						
THORIUM-232	PCI/L				0.5000	.3	J	0.2000	.2	UJ						
THORIUM, TOTAL	UG/L				4.5601	.3	NV									
RADIUM-228	PCI/L				3.0000	1.3	UJ	3.0000	1.3	UJ						
THORIUM-228	PCI/L				0.3000	.2	J	0.2000	.2	UJ						
GROSS ALPHA	PCI/L				52.5000	17.5	NV	48.5000	6.4	NV						
GROSS BETA	PCI/L				60.0000	14.6	NV	47.9000	4.3	NV						
URANIUM-235	PCI/L										25.0000		NV			
URANIUM-236	PCI/L										6.0000		NV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045756	045758	045197	045198	045760
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	WMCO	IT	IT
WELL OR BORING NUMBER:	1219	1219	1220	1220	1220
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-OCT-89	19-MAY-90	04-JUN-89	22-OCT-89	22-OCT-89
NORTH COORDINATE:	480402.02	480402.02	480397.05	480397.05	480397.05
EAST COORDINATE:	1380090.95	1380090.95	1380209.37	1380209.37	1380209.37
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				9.1800		J				6.7700		-			
RADIONUCLIDES																
URANIUM-238	PCI/L							1500.0000		NV						
URANIUM, TOTAL	UG/L	1100.00000		-				4429.0000		NV				5660.0000	830	-
URANIUM-234	PCI/L							1400.0000		NV						
URANIUM-235	PCI/L							74.0000		NV						
URANIUM-236	PCI/L							26.0000		NV						

001415

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045762	045763	046794	046796	046680
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1220	1220	1221	1221	1223
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-OCT-89	22-OCT-89	16-JAN-90	30-JUL-90	21-JAN-90
NORTH COORDINATE:	480397.05	480397.05	480445.44	480445.44	480400.12
EAST COORDINATE:	1380209.37	1380209.37	1380264.76	1380264.76	1380287.03
QA TYPE:	DUPLICATE	DUPLICATE	NORMAL	NORMAL	NORMAL
QC OF:	045760	045198			
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				7.1100		-	4.7900		-	239.0000		-	0.7600		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	4330.00000		-				1636.0000	291	J				176.0000	36	J

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046681	046682	046683	062958	062959
TASK:	3.7	3.7	3.7	04.23	04.23
LAB:	IT	IT	IT	IT	WMCO
WELL OR BORING NUMBER:	1223	1223	1223	1223	1223
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-JAN-90	28-AUG-90	28-AUG-90	10-JUL-92	10-JUL-92
NORTH COORDINATE:	480400.12	480400.12	480400.12	480400.12	480400.12
EAST COORDINATE:	1380287.03	1380287.03	1380287.03	1380287.03	1380287.03
QA TYPE:	DUPLICATE	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:	046680				
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.8900		-				3.6300		-						
INORGANICS																
ALUMINUM	MG/L										0.0300		U			
ANTIMONY	MG/L										0.0300		R			
ARSENIC	MG/L										0.0020		U			
BARIUM	MG/L										0.0260		-			
BERYLLIUM	MG/L										0.0020		U			
CADMIUM	MG/L										0.0050		UJ			
CALCIUM	MG/L										243.0000		-			
CHROMIUM	MG/L										0.0100		U			
COBALT	MG/L										0.0100		U			
COPPER	MG/L										0.0100		U			
CYANIDE	MG/L										0.0020		U			
IRON	MG/L										0.0200		U			
LEAD	MG/L										0.0020		U			
MAGNESIUM	MG/L										88.3000		-			
MANGANESE	MG/L										0.7320		-			
MERCURY	MG/L										0.0002		U			
MOLYBDENUM	MG/L										0.0200		U			
NICKEL	MG/L										0.0200		U			
POTASSIUM	MG/L										2.2600		-			
SELENIUM	MG/L										0.0020		U			
SILICON	MG/L										6.6800		-			
SILVER	MG/L										0.0100		R			
SODIUM	MG/L										18.9000		-			
THALLIUM	MG/L										0.0020		U			
VANADIUM	MG/L										0.0100		U			
ZINC	MG/L										0.0102		-			

SAMPLE NUMBER:		046681			046682			046683			062958			062959		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			F-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U			
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		U			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		U			
ALPHA-CHLORDANE	UG/L										0.5000		U			
AROCLOR-1016	UG/L										0.5000		U			
AROCLOR-1221	UG/L										0.5000		U			
AROCLOR-1232	UG/L										0.5000		U			
AROCLOR-1242	UG/L										0.5000		U			
AROCLOR-1248	UG/L										0.5000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.1000		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.1000		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.5000		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										1.0000		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	138.00081		-	27.9000	5.9	-							75.0000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										50.0000		UJ			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			

001418

5704

SAMPLE NUMBER:		046681			046682			046683			062958			062959		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										50.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		U			
3-NITROANILINE	UG/L										50.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		UJ			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										50.0000		U			
4-NITROPHENOL	UG/L										50.0000		U			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U			
BENZO(K)FLUORANTHENE	UG/L										10.0000		U			
BENZOIC ACID	UG/L										50.0000		UJ			
BENZYL ALCOHOL	UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		U			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CARBAZOLE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		U			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		U			
HEXACHLOROBUTADIENE	UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		U			
HEXACHLOROETHANE	UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L										10.0000		U			

SAMPLE NUMBER:	046681	046682	046683	062958	062959
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
ISOPHORONE	UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										10.0000		U			
NAPHTHALENE	UG/L										10.0000		UJ			
NITROBENZENE	UG/L										10.0000		U			
P-CHLOROANILINE	UG/L										10.0000		U			
PENTACHLOROPHENOL	UG/L										50.0000		U			
PHENANTHRENE	UG/L										10.0000		U			
PHENOL	MG/L										10.0000		U			
PYRENE	UG/L										10.0000		U			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										5.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHENE	UG/L										5.0000		U			
1,2-DICHLOROETHANE	UG/L										5.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U			
1,2-DICHLOROPROPANE	UG/L										5.0000		U			
2-BUTANONE	UG/L										10.0000		UJ			
2-HEXANONE	UG/L										10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L										10.0000		UJ			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										5.0000		U			
BROMODICHLOROMETHANE	UG/L										5.0000		U			
BROMOFORM	UG/L										5.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										5.0000		U			
CARBON TETRACHLORIDE	UG/L										5.0000		U			
CHLOROBENZENE	UG/L										5.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										5.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
DIBROMOCHLOROMETHANE	UG/L										5.0000		U			
ETHYLBENZENE	UG/L										5.0000		U			
METHYLENE CHLORIDE	UG/L										14.0000		UJ			
STYRENE	UG/L										5.0000		U			
TETRACHLOROETHENE	UG/L										5.0000		U			
TOLUENE	UG/L										5.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
TRICHLOROETHENE	UG/L										5.0000		U			
VINYL ACETATE	UG/L										5.0000		U			

SAMPLE NUMBER:		046681			046682			046683			062958			062959		
LAB:											IT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										5.0000		U			

001421

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045199	045764	045765	045767	046728
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	UNKNOWN	IT	IT
WELL OR BORING NUMBER:	1224	1224	1224	1224	1225
DEPTH:	-	-	-	-	-
DATE COLLECTED:	04-JUN-89	23-OCT-89	23-OCT-89	05-MAY-90	18-JAN-90
NORTH COORDINATE:	480359.18	480359.18	480359.18	480359.18	480407.39
EAST COORDINATE:	1380267.48	1380267.48	1380267.48	1380267.48	1380542.26
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							39.1000		-	0.1000		U	142.0000		-
RADIONUCLIDES																
URANIUM-238	PCI/L	1200.0000		NV												
URANIUM, TOTAL	UG/L	3699.0000		NV	6880.0000	910	-							222.0000	35	-
URANIUM-234	PCI/L	986.0000		NV												
URANIUM-235	PCI/L	63.0000		NV												
URANIUM-236	PCI/L	32.0000		NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046729	046730	045211	045768	045769
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	WMCO	IT	IT
WELL OR BORING NUMBER:	1225	1225	1226	1226	1226
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-AUG-90	13-AUG-90	07-JUN-89	23-OCT-89	23-OCT-89
NORTH COORDINATE:	480407.39	480407.39	480415.64	480415.64	480415.64
EAST COORDINATE:	1380542.26	1380542.26	1380700.31	1380700.31	1380700.31
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				84.6000		-							1.1100		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	141.00080		-				1005.0000		NV	1200.0000	170	-			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045770	098909	098910	099009	099010
TASK:	3.7	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	WMCO	IT	WMCO
WELL OR BORING NUMBER:	1226	1226	1226	1226	1226
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-FEB-90	16-JUN-92	16-JUN-92	20-OCT-92	20-OCT-92
NORTH COORDINATE:	480415.64	480415.64	480415.64	480415.64	480415.64
EAST COORDINATE:	1380700.31	1380700.31	1380700.31	1380700.31	1380700.31
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										321.0000		-			
AMMONIA	MG/L										0.1000		U			
CHLORIDE	MG/L				57.4000		NV				69.6000		-			
FLUORIDE	MG/L				0.7600		NV				0.8800		-			
NITRATE	MG/L	1.5200		-	2.8800		NV				1.5900		-			
PHENOLS	MG/L				0.0100		UNV									
PHOSPHORUS	MG/L				2.1500		NV				0.0200		U			
SULFATE	MG/L				53.5500		NV				54.0000		-			
SULFIDE	MG/L				0.0500		UNV				0.5000		U			
TOTAL ORGANIC CARBON	MG/L				1.0000		UNV				1.1900		-			
TOTAL ORGANIC HALIDES	MG/L				37.5000		NV				0.0317		-			
TOTAL ORGANIC NITROGEN	MG/L				0.8000		NV				0.2200		-			
INORGANICS																
ALUMINUM	MG/L				0.0529		-				0.0300		U			
ANTIMONY	MG/L										0.0082		U			
ARSENIC	MG/L				0.0020		U				0.0025		U			
BARIUM	MG/L				0.0485		-				0.0532		-			
BERYLLIUM	MG/L										0.0020		U			
CADMIUM	MG/L				0.0050		U				0.0050		U			
CALCIUM	MG/L				95.6000		-				107.0000		-			
CHROMIUM	MG/L				0.0100		U				0.0100		U			
COBALT	MG/L										0.0100		U			
COPPER	MG/L				0.0100		U				0.0100		U			
CYANIDE	MG/L										0.0020		U			
IRON	MG/L				0.0330		-				0.0200		U			
LEAD	MG/L				0.0030		UJ				0.0025		U			
MAGNESIUM	MG/L				21.7000		-				23.6000		-			
MANGANESE	MG/L				0.0100		U				0.0100		U			

001424

5744

SAMPLE NUMBER:	045770			098909			098910			099009			099010		
LAB:				IT						IT					
SUFFIX/FILTERFLAG:	-			F-FIL			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L				0.0002		U				0.0002		U			
MOLYBDENUM	MG/L				0.0200		U				0.0200		U			
NICKEL	MG/L				0.0200		U				0.0200		U			
POTASSIUM	MG/L				2.3400		-				2.4300		-			
SELENIUM	MG/L				0.0028		J				0.0020		U			
SILICON	MG/L				3.9600		-				4.4300		-			
SILVER	MG/L				0.0100		UJ				0.0100		U			
SODIUM	MG/L				41.1000		-				41.3000		-			
THALLIUM	MG/L										0.0020		U			
VANADIUM	MG/L				0.0100		U				0.0100		U			
ZINC	MG/L										0.0050		U			
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U			
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		U			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		U			
ALPHA-CHLORDANE	UG/L										0.5000		U			
AROCLOR-1016	UG/L										0.5000		U			
AROCLOR-1221	UG/L										0.5000		U			
AROCLOR-1232	UG/L										0.5000		U			
AROCLOR-1242	UG/L										0.5000		U			
AROCLOR-1248	UG/L										0.5000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.1000		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.1000		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.5000		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										1.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L				265.0000	36	J				336.0000	85	J			

SAMPLE NUMBER:	045770	098909			098910			099009			099010		
LAB:		IT						IT					
SUFFIX/FILTERFLAG:	-	NONE-FIL			-			NONE-FIL			-		
	RESULT SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES													
URANIUM, TOTAL UG/L		797.0000	113	J	480.0000		NV	849.0000	114	J	890.0000		NV
URANIUM-234 PCI/L		244.0000	34	J				303.0000	82	J			
THORIUM-230 PCI/L		0.9000	.3	J				1.1300	.39	J			
RADIUM-226 PCI/L		1.0000	.09	UJ									
URANIUM-235/236 PCI/L		22.0000	4.4	J				36.0000		UJ			
THORIUM-232 PCI/L		1.0000	.3	J				0.2000		UJ			
THORIUM, TOTAL UG/L		8.7700	3.07	J				0.7000		UJ			
RADIUM-228 PCI/L		3.0000		UJ									
THORIUM-228 PCI/L		0.5000	.3	J				0.4000		UJ			
NEPTUNIUM-237 PCI/L		0.8000		UJ				0.5000		UJ			
PLUTONIUM-239/240 PCI/L		0.5000	.2	UJ				0.5000		UJ			
PLUTONIUM-238 PCI/L		0.5000		UJ				0.5000		UJ			
STRONTIUM-90 PCI/L		1.0000		UJ				1.0000		UJ			
TECHNETIUM-99 PCI/L		33.0000	15.9	R				15.0000		UJ			
RUTHENIUM-106 PCI/L		150.0000		UJ				150.0000		UJ			
CESIUM-137 PCI/L		13.0000		UJ				14.8000		UJ			
GROSS ALPHA PCI/L		564.0000	68	NV				572.0000	72	NV			
GROSS BETA PCI/L		163.0000	18	NV				209.0000	23	NV			
SEMIVOLATILES													
1,2,4-TRICHLOROBENZENE UG/L								10.0000		U			
1,2-DICHLOROBENZENE UG/L								10.0000		U			
1,3-DICHLOROBENZENE UG/L								10.0000		U			
1,4-DICHLOROBENZENE UG/L								10.0000		U			
2,4,5-TRICHLOROPHENOL UG/L								50.0000		U			
2,4,6-TRICHLOROPHENOL UG/L								10.0000		U			
2,4-DICHLOROPHENOL UG/L								10.0000		U			
2,4-DIMETHYLPHENOL UG/L								10.0000		U			
2,4-DINITROPHENOL UG/L								50.0000		UJ			
2,4-DINITROTOLUENE UG/L								10.0000		U			
2,6-DINITROTOLUENE UG/L								10.0000		U			
2-CHLORONAPHTHALENE UG/L								10.0000		U			
2-CHLOROPHENOL UG/L								10.0000		U			
2-METHYLNAPHTHALENE UG/L								10.0000		U			
2-METHYLPHENOL UG/L								10.0000		U			
2-NITROANILINE UG/L								50.0000		U			
2-NITROPHENOL UG/L								10.0000		U			
3,3'-DICHLOROBENZIDINE UG/L								20.0000		U			
3-NITROANILINE UG/L								50.0000		U			
4,6-DINITRO-2-METHYLPHENOL UG/L								50.0000		U			
4-BROMOPHENYL PHENYL ETHER UG/L								10.0000		U			
4-CHLORO-3-METHYLPHENOL UG/L								10.0000		U			
4-CHLOROPHENYLPHENYL ETHER UG/L								10.0000		U			
4-METHYLPHENOL UG/L								10.0000		U			

SAMPLE NUMBER:	045770			098909			098910			099009			099010		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4-NITROANILINE UG/L										50.0000		U			
4-NITROPHENOL UG/L										50.0000		U			
ACENAPHTHENE UG/L										10.0000		U			
ACENAPHTHYLENE UG/L										10.0000		U			
ANTHRACENE UG/L										10.0000		U			
BENZO(A)ANTHRACENE UG/L										10.0000		U			
BENZO(A)PYRENE UG/L										10.0000		U			
BENZO(B)FLUORANTHENE UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE UG/L										10.0000		U			
BENZO(K)FLUORANTHENE UG/L										10.0000		U			
BENZOIC ACID UG/L										50.0000		UJ			
BENZYL ALCOHOL UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										4.0000		J			
BUTYL BENZYL PHTHALATE UG/L										10.0000		U			
CARBAZOLE UG/L										10.0000		UJ			
CHRYSENE UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		U			
DIBENZOFURAN UG/L										10.0000		U			
DIETHYL PHTHALATE UG/L										10.0000		U			
DIMETHYL PHTHALATE UG/L										10.0000		U			
FLUORANTHENE UG/L										10.0000		U			
FLUORENE UG/L										10.0000		U			
HEXACHLOROBENZENE UG/L										10.0000		U			
HEXACHLOROBUTADIENE UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		U			
HEXACHLOROETHANE UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE UG/L										10.0000		U			
NAPHTHALENE UG/L										10.0000		U			
NITROBENZENE UG/L										10.0000		U			
P-CHLOROANILINE UG/L										10.0000		UJ			
PENTACHLOROPHENOL UG/L										50.0000		U			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		U			
PYRENE UG/L										10.0000		U			
VOLATILES															

1,1,1-TRICHLOROETHANE	UG/L				5.0000		U					5.0000		U			
SAMPLE NUMBER:		045770			098909			098910			099009			099010			
LAB:					IT						IT						
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			-			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																	
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U				5.0000		U				
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U				5.0000		U				
1,1-DICHLOROETHANE	UG/L				5.0000		U				5.0000		U				
1,1-DICHLOROETHENE	UG/L				5.0000		U				5.0000		U				
1,2-DICHLOROETHANE	UG/L				5.0000		U				5.0000		U				
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U				5.0000		U				
1,2-DICHLOROPROPANE	UG/L				5.0000		U				5.0000		U				
2-BUTANONE	UG/L				10.0000		UJ				10.0000		UJ				
2-HEXANONE	UG/L				10.0000		UJ				10.0000		UJ				
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ				10.0000		UJ				
ACETONE	UG/L				10.0000		UJ				10.0000		UJ				
BENZENE	UG/L				5.0000		U				5.0000		U				
BROMODICHLOROMETHANE	UG/L				5.0000		U				5.0000		U				
BROMOFORM	UG/L				5.0000		U				5.0000		U				
BROMOMETHANE	UG/L				10.0000		U				10.0000		UJ				
CARBON DISULFIDE	UG/L				5.0000		U				5.0000		U				
CARBON TETRACHLORIDE	UG/L				5.0000		UJ				5.0000		U				
CHLOROBENZENE	UG/L				5.0000		U				5.0000		U				
CHLOROETHANE	UG/L				10.0000		UJ				10.0000		U				
CHLOROFORM	UG/L				5.0000		U				5.0000		U				
CHLOROMETHANE	UG/L				10.0000		U				10.0000		U				
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				5.0000		U				
DIBROMOCHLOROMETHANE	UG/L				5.0000		U				5.0000		U				
ETHYLBENZENE	UG/L				5.0000		U				5.0000		U				
METHYLENE CHLORIDE	UG/L				5.0000		U				5.0000		UJ				
STYRENE	UG/L				5.0000		U				5.0000		U				
TETRACHLOROETHENE	UG/L				5.0000		U				5.0000		U				
TOLUENE	UG/L				5.0000		U				5.0000		U				
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				5.0000		U				
TRICHLOROETHENE	UG/L				5.0000		U				5.0000		U				
VINYL ACETATE	UG/L				10.0000		U				10.0000		UJ				
VINYL CHLORIDE	UG/L				10.0000		U				10.0000		U				
XYLENES, TOTAL	UG/L				5.0000		U				5.0000		U				

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045201	045772	045773	045774	045775
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	UNKNOWN	IT	IT
WELL OR BORING NUMBER:	1227	1227	1227	1227	1227
DEPTH:	-	-	-	-	-
DATE COLLECTED:	06-JUN-89	23-OCT-89	23-OCT-89	07-MAY-90	07-MAY-90
NORTH COORDINATE:	480317.47	480317.47	480317.47	480317.47	480317.47
EAST COORDINATE:	1380474.6	1380474.6	1380474.6	1380474.6	1380474.6
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							9.3200		-				9.1800		-
RADIONUCLIDES																
URANIUM-238	PCI/L	80.0000		NV							154.0000	24	J			
URANIUM, TOTAL	UG/L	240.0000		NV	523.0000	81	-				604.0000	79	-			
URANIUM-234	PCI/L	69.0000		NV							151.0000	24	J			
THORIUM-230	PCI/L										1.0000		U			
RADIUM-226	PCI/L										2.2700	.4	NV			
URANIUM-235/236	PCI/L										12.6000	2.7	J			
THORIUM-232	PCI/L										1.0000		U			
THORIUM, TOTAL	UG/L										5.5000		U			
RADIUM-228	PCI/L										3.0000		U			
THORIUM-228	PCI/L										1.0100	.54	-			
NEPTUNIUM-237	PCI/L										1.0000		U			
PLUTONIUM-239/240	PCI/L										1.0000		U			
PLUTONIUM-238	PCI/L										1.0000		U			
STRONTIUM-90	PCI/L										5.0000		UJ			
TECHNETIUM-99	PCI/L										1865.0000	201	J			
RUTHENIUM-106	PCI/L										150.0000		R			
CESIUM-137	PCI/L										20.0000		R			
URANIUM-235	PCI/L	4.1000		NV												
URANIUM-236	PCI/L	2.5000		NV												

001429

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045157	045776	045777	045778	045779
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	UNKNOWN	IT	IT
WELL OR BORING NUMBER:	1228	1228	1228	1228	1228
DEPTH:	-	-	-	-	-
DATE COLLECTED:	06-JUN-89	23-OCT-89	23-OCT-89	07-MAY-90	07-MAY-90
NORTH COORDINATE:	480301.15	480301.15	480301.15	480301.15	480301.15
EAST COORDINATE:	1380298.9	1380298.9	1380298.9	1380298.9	1380298.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							2.0000		-				0.9100		-
RADIONUCLIDES																
URANIUM-238	PCI/L	75.0000		NV							44.3000	7.3	J			
URANIUM, TOTAL	UG/L	150.0000		NV	110.0000	11	J				69.3000	12.6	-			
URANIUM-234	PCI/L	71.0000		NV							48.9000	8	J			
THORIUM-230	PCI/L										1.0000		U			
RADIUM-226	PCI/L										1.0000		UNV			
URANIUM-235/236	PCI/L										2.8000	1.01	J			
THORIUM-232	PCI/L										1.0000		U			
THORIUM, TOTAL	UG/L										4.9000		U			
RADIUM-228	PCI/L										3.0000		U			
THORIUM-228	PCI/L										1.0000		U			
NEPTUNIUM-237	PCI/L										1.0000		U			
PLUTONIUM-239/240	PCI/L										1.0000		U			
PLUTONIUM-238	PCI/L										1.0000		U			
STRONTIUM-90	PCI/L										5.0000		UJ			
TECHNETIUM-99	PCI/L										255.0000	40	R			
RUTHENIUM-106	PCI/L										150.0000		UJ			
CESIUM-137	PCI/L										20.0000		UJ			
URANIUM-235	PCI/L	3.6000		NV												
URANIUM-236	PCI/L	0.5800		NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045146	045780	045781	045782	GW930114-6
TASK:	3.7	3.7	3.7	3.7	RCRA
LAB:	WMCO	IT	IT	IT	NET
WELL OR BORING NUMBER:	1229	1229	1229	1229	1229
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-MAY-89	23-OCT-89	23-OCT-89	30-JUN-90	14-JAN-93
NORTH COORDINATE:	480262.59	480262.59	480262.59	480262.59	480262.59
EAST COORDINATE:	1379834.54	1379834.54	1379834.54	1379834.54	1379834.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													355.0000		NV
ALLYL CHLORIDE	UG/L													5.0000		UNV
AMMONIA	MG/L													0.0600		NV
BICARBONATE ALKALINITY	MG/L													476.0000		NV
CARBONATE ALKALINITY	MG/L													3.0000		UNV
CHLORIDE	MG/L													20.0000		NV
FLUORIDE	MG/L													0.6600		NV
NITRATE	MG/L							0.1000		U	0.1000		UJ	0.0400		NV
NITRITE, AS NITROGEN	MG/L													0.0200		UNV
PH	STD													7.3000		NV
PHENOLS	MG/L													0.0100		UNV
PHOSPHORUS	MG/L													0.1600		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM													1130.0000		NV
SULFATE	MG/L													229.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L													731.0000		NV
TOTAL ORGANIC CARBON	MG/L													9.0000		NV
TOTAL ORGANIC HALIDES	MG/L													0.0220		NV
TOTAL SOLIDS	MG/L													4510.0000		NV
INORGANICS																
ALUMINUM	MG/L													25.5000		NV
ANTIMONY	MG/L													0.0200		UNV
ARSENIC	MG/L													0.0050		UNV
BARIUM	MG/L													0.2600		NV
BERYLLIUM	MG/L													0.0050		UNV
CADMIUM	MG/L													0.0010		UNV
CALCIUM	MG/L													299.0000		NV
CHROMIUM	MG/L													0.0020		UNV
COBALT	MG/L													0.0050		UNV

SAMPLE NUMBER:	045146			045780			045781			045782			GW930114-6		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
COPPER MG/L													0.0200		UNV
CYANIDE MG/L													0.0050		UNV
IRON MG/L													0.1200		NV
LEAD MG/L													0.0030		UNV
MAGNESIUM MG/L													136.0000		NV
MANGANESE MG/L													1.6900		NV
MERCURY MG/L													0.0002		UNV
MOLYBDENUM MG/L													0.0100		UNV
NICKEL MG/L													0.0600		NV
POTASSIUM MG/L													6.2000		NV
SELENIUM MG/L													0.0050		UNV
SILVER MG/L													0.0010		UNV
SODIUM MG/L													17.0000		NV
THALLIUM MG/L													0.0100		UNV
VANADIUM MG/L													0.0670		NV
ZINC MG/L													0.0200		UNV
MISC															
1,2,3-TRICHLOROPROPANE UG/L													5.0000		UNV
1,2-DIBROMO-3-CHLOROPROPANE UG/L													2.0000		UNV
1,2-DIBROMOETHANE UG/L													2.0000		UNV
2-CHLORO-1,3-BUTADIENE UG/L													5.0000		UNV
ACROLEIN UG/L													50.0000		UNV
ACROLEIN UG/L													50.0000		UNV
ACRYLONITRILE UG/L													50.0000		UNV
DICHLORODIFLUOROMETHANE UG/L													10.0000		UNV
ETHYL CYANIDE UG/L													20.0000		UNV
ETHYL METHACRYLATE UG/L													5.0000		UNV
IODOMETHANE UG/L													5.0000		UNV
METHACRYLONITRILE UG/L													5.0000		UNV
METHYL METHACRYLATE UG/L													5.0000		UNV
PENTACHLOROETHANE UG/L													5.0000		UNV
TRANS-1,2-DICHLOROETHENE UG/L													1.0000		UNV
TRANS-1,4-DICHLORO-2-BUTENE UG/L													20.0000		UNV
RADIONUCLIDES															
URANIUM-238 PCI/L	19.0000		NV												
URANIUM, TOTAL UG/L	39.0000		NV	58.0000	6	J							15.0000		NV
URANIUM-234 PCI/L	3.6000		NV												
THORIUM-230 PCI/L													1.5000	.4	NV
RADIUM-226 PCI/L													5.8000	.9	NV
THORIUM-232 PCI/L													0.8000	.3	NV
THORIUM, TOTAL UG/L													7.6000		NV

SAMPLE NUMBER:		045146			045780			045781			045782			GW930114-6		
LAB:														CORE		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-228	PCI/L													3.0000	1.1	UNV
THORIUM-228	PCI/L													0.7000	.3	NV
GROSS ALPHA	PCI/L													22.6000	10.3	NV
GROSS BETA	PCI/L													1.6000	10.7	UNV
URANIUM-235	PCI/L	0.9100		NV												
URANIUM-236	PCI/L	0.0000		UNV												
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L													10.0000		UNV
CUMENE	UG/L													1.0000		UNV
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,1-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHANE	UG/L													1.0000		UNV
1,1-DICHLOROETHENE	UG/L													1.0000		UNV
1,2-DICHLOROETHANE	UG/L													1.0000		UNV
1,2-DICHLOROPROPANE	UG/L													1.0000		UNV
2-BUTANONE	UG/L													10.0000		UNV
2-HEXANONE	UG/L													10.0000		UNV
4-METHYL-2-PENTANONE	UG/L													10.0000		UNV
ACETONE	UG/L													10.0000		UNV
BENZENE	UG/L													1.0000		UNV
BROMODICHLOROMETHANE	UG/L													1.0000		UNV
BROMOFORM	UG/L													1.0000		UNV
BROMOMETHANE	UG/L													5.0000		UNV
CARBON DISULFIDE	UG/L													1.0000		UNV
CARBON TETRACHLORIDE	UG/L													1.0000		UNV
CHLOROBENZENE	UG/L													1.0000		UNV
CHLOROETHANE	UG/L													10.0000		UNV
CHLOROFORM	UG/L													1.0000		UNV
CHLOROMETHANE	UG/L													10.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L													1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L													1.0000		UNV
ETHYLBENZENE	UG/L													1.0000		UNV
METHYLENE CHLORIDE	UG/L													10.0000		UNV
STYRENE	UG/L													1.0000		UNV
TETRACHLOROETHENE	UG/L													1.0000		UNV
TOLUENE	UG/L													1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L													1.0000		UNV
TRICHLOROETHENE	UG/L													1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045146			045780			045781			045782			GW930114-6		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRICHLOROFLUOROMETHANE UG/L													1.0000		UNV
VINYL ACETATE UG/L													10.0000		UNV
VINYL CHLORIDE UG/L													5.0000		UNV
XYLENES, TOTAL UG/L													1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045203	045204	045785	045786	045787
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	1230	1230	1230	1230	1230
DEPTH:	-	-	-	-	-
DATE COLLECTED:	02-JUN-89	30-JUN-90	23-OCT-89	23-OCT-89	30-JUN-90
NORTH COORDINATE:	480281.12	480281.12	480281.12	480281.12	480281.12
EAST COORDINATE:	1380055.01	1380055.01	1380055.01	1380055.01	1380055.01
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DUPLICATE
QC OF:					045204
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		045203			045204			045785			045786			045787		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		UJ				0.1000		U	0.1000		UJ
RADIONUCLIDES																
URANIUM-238	PCI/L	530.0000		NV												
URANIUM, TOTAL	UG/L	1100.0000		NV				2010.0000	300	-						
URANIUM-234	PCI/L	500.0000		NV												
URANIUM-235	PCI/L	28.0000		NV												
URANIUM-236	PCI/L	7.1000		NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118313	118314	118315	118316	118317
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	FERMCO	FERMCO	DATACHEM	DATACHEM	CORE
WELL OR BORING NUMBER:	1230	1230	1230	1230	1230
DEPTH:	0-11.5	0-11.5	-	-	-
DATE COLLECTED:	17-MAY-93	17-MAY-93	17-MAY-93	17-MAY-93	17-MAY-93
NORTH COORDINATE:	480281.12	480281.12	480281.12	480281.12	480281.12
EAST COORDINATE:	1380055.01	1380055.01	1380055.01	1380055.01	1380055.01
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L							0.0700		-						
NITRATE/NITRITE	MG/L							0.5100		-						
PHENOLS	MG/L							0.0200		U						
PHOSPHORUS	MG/L							2.6000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL ORGANIC CARBON	MG/L							2.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0300		-						
INORGANICS																
ALUMINUM	MG/L							40.1000		-	0.0521		U			
ANTIMONY	MG/L							0.0704		J	0.0450		U			
ARSENIC	MG/L							0.0171		J	0.0010		UJ			
BARIUM	MG/L							0.3010		-	0.0603		-			
BERYLLIUM	MG/L							0.0058		U	0.0010		U			
CADMIUM	MG/L							0.0097		J	0.0030		U			
CALCIUM	MG/L							541.0000		-	138.0000		-			
CHROMIUM	MG/L							0.0521		-	0.0040		UJ			
COBALT	MG/L							0.0343		-	0.0060		U			
COPPER	MG/L							0.1130		-	0.0148		U			
CYANIDE	MG/L							0.0100		UJ	0.0100		UJ			
IRON	MG/L							111.0000		-	0.0618		U			
LEAD	MG/L							0.0344		J	0.0010		UJ			
MAGNESIUM	MG/L							193.0000		-	41.0000		-			
MANGANESE	MG/L							1.9400		-	0.2470		-			
MERCURY	MG/L							0.0002		U	0.0002		U			
NICKEL	MG/L							0.0582		U	0.0190		U			
POTASSIUM	MG/L							9.7100		-	1.5200		U			
SELENIUM	MG/L							0.0010		UJ	0.0010		UJ			
SILVER	MG/L							0.0030		UJ	0.0030		UJ			

001436

5704

SAMPLE NUMBER:		118313			118314			118315			118316			118317		
LAB:								DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SODIUM	MG/L							41.6000		-	34.4000		-			
THALLIUM	MG/L							0.0010		UJ	0.0010		UJ			
VANADIUM	MG/L							0.0864		-	0.0040		U			
ZINC	MG/L							0.2370		-	0.0253		U			
RADIONUCLIDES																
URANIUM-238	PCI/L													581.0000	80.6	J
URANIUM, TOTAL	UG/L	230.0000		NV	2000.0000		NV							2110.0000	148	-
URANIUM-234	PCI/L													596.0000	82.4	J
THORIUM-230	PCI/L													0.4000	.3	J
RADIUM-226	PCI/L													1.2000	.6	U
URANIUM-235/236	PCI/L													29.5000	11	J
THORIUM-232	PCI/L													0.2000	.2	UJ
RADIUM-228	PCI/L													3.0000	1.2	U
THORIUM-228	PCI/L													0.3000	.2	UJ
TECHNETIUM-99	PCI/L													41.5000	8.7	-
GROSS ALPHA	PCI/L													1390.0000	30.7	NV
GROSS BETA	PCI/L													719.0000	12.6	NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						

SAMPLE NUMBER:	118313			118314			118315			118316			118317		
LAB:							DATACHEM								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
DIBROMOCHLOROMETHANE UG/L							10.0000		U						
ETHYLBENZENE UG/L							10.0000		U						
METHYLENE CHLORIDE UG/L							10.0000		U						
STYRENE UG/L							10.0000		U						
TETRACHLOROETHENE UG/L							10.0000		U						
TOLUENE UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE UG/L							10.0000		U						
TRICHLOROETHENE UG/L							10.0000		U						
VINYL CHLORIDE UG/L							10.0000		U						
XYLENES, TOTAL UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118318	045558	045559	045560	066913
TASK:	50.03.23	3.7	3.7	3.7	3.7
LAB:	CORE	IT	IT	IT	IT
WELL OR BORING NUMBER:	1230	1231	1231	1231	1231
DEPTH:	0-11.5	-	-	-	-
DATE COLLECTED:	17-MAY-93	02-NOV-89	02-NOV-89	23-JAN-90	18-JUL-90
NORTH COORDINATE:	480281.12	480236.98	480236.98	480236.98	480236.98
EAST COORDINATE:	1380055.01	1380209.43	1380209.43	1380209.43	1380209.43
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							0.1000		U	28.3900		-			
INORGANICS																
ALUMINUM	MG/L													0.4180		-
ANTIMONY	MG/L													0.0364		-
ARSENIC	MG/L													0.0020		UJ
BARIUM	MG/L													0.1540		-
BERYLLIUM	MG/L													0.0043		-
CADMIUM	MG/L													0.0104		-
CALCIUM	MG/L													188.0000		-
CHROMIUM	MG/L													0.1290		-
COBALT	MG/L													0.0100		U
COPPER	MG/L													0.0294		-
CYANIDE	MG/L													0.0020		UJ
IRON	MG/L													0.0482		-
LEAD	MG/L													0.0020		UJ
MAGNESIUM	MG/L													63.7000		-
MANGANESE	MG/L													0.5850		-
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.0425		-
POTASSIUM	MG/L													1.8000		-
SELENIUM	MG/L													0.0020		UJ
SILVER	MG/L													0.0547		-
SODIUM	MG/L													31.8000		-
THALLIUM	MG/L													0.0020		UJ
VANADIUM	MG/L													0.0448		-
ZINC	MG/L													0.0119		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118318	045558	045559	045560	066913
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.1000		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.1000		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	507.0000	81.8	J										6656.0000	1032	J
URANIUM, TOTAL	UG/L	1040.0000	8.1	J	13850.0000	1890	J				24300.0000	3400	-	20046.0000	3129	J
URANIUM-234	PCI/L	571.0000	88.9	J										8325.0000	1275	J
THORIUM-230	PCI/L	0.2000	.3	UJ										6.8600	4.62	J
RADIUM-226	PCI/L	2.2000	.7	J										1.0000		U
URANIUM-235/236	PCI/L	27.0000	6.4	J										570.0000	135	J
THORIUM-232	PCI/L	0.5000	.2	J										7.2400	1.64	J
THORIUM, TOTAL	UG/L	4.5600	.2	NV										65.0000	15	J
RADIUM-228	PCI/L	3.0000	1.2	UJ										3.0000		UJ
THORIUM-228	PCI/L	0.3000	.2	J										5.8500	1.[illegible]	J
NEPTUNIUM-237	PCI/L													1.0000		UJ
PLUTONIUM-239/240	PCI/L													1.0000		UJ

SAMPLE NUMBER:	118318			045558			045559			045560			066913		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
PLUTONIUM-238 PCI/L													1.0000		UJ
STRONTIUM-90 PCI/L													5.0000		UJ
TECHNETIUM-99 PCI/L													1180.0000	128	J
GROSS ALPHA PCI/L	921.00087		NV												
GROSS BETA PCI/L	1190.0008.7		NV												
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L													10.0000		U
1,2-DICHLOROBENZENE UG/L													10.0000		U
1,3-DICHLOROBENZENE UG/L													10.0000		U
1,4-DICHLOROBENZENE UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL UG/L													10.0000		U
2,4-DICHLOROPHENOL UG/L													10.0000		U
2,4-DIMETHYLPHENOL UG/L													10.0000		U
2,4-DINITROPHENOL UG/L													50.0000		U
2,4-DINITROTOLUENE UG/L													10.0000		U
2,6-DINITROTOLUENE UG/L													10.0000		U
2-CHLORONAPHTHALENE UG/L													10.0000		U
2-CHLOROPHENOL UG/L													10.0000		U
2-METHYLNAPHTHALENE UG/L													10.0000		U
2-METHYLPHENOL UG/L													10.0000		U
2-NITROANILINE UG/L													50.0000		UJ
2-NITROPHENOL UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE UG/L													20.0000		U
3-NITROANILINE UG/L													50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER UG/L													10.0000		U
4-METHYLPHENOL UG/L													10.0000		U
4-NITROANILINE UG/L													50.0000		UJ
4-NITROPHENOL UG/L													50.0000		U
ACENAPHTHENE UG/L													10.0000		U
ACENAPHTHYLENE UG/L													10.0000		U
ANTHRACENE UG/L													10.0000		U
BENZO(A)ANTHRACENE UG/L													10.0000		U
BENZO(A)PYRENE UG/L													10.0000		U
BENZO(B)FLUORANTHENE UG/L													10.0000		U
BENZO(G,H,I)PERYLENE UG/L													10.0000		U
BENZO(K)FLUORANTHENE UG/L													10.0000		U
BENZOIC ACID UG/L													50.0000		U
BENZYL ALCOHOL UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		U

SAMPLE NUMBER:	118318			045558			045559			045560			066913		
LAB:	-												IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		UR
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		U
BUTYL BENZYL PHTHALATE UG/L													10.0000		U
CHRYSENE UG/L													10.0000		U
DI-N-BUTYL PHTHALATE UG/L													10.0000		U
DI-N-OCTYL PHTHALATE UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		UJ
DIBENZOFURAN UG/L													10.0000		U
DIETHYL PHTHALATE UG/L													10.0000		U
DIMETHYL PHTHALATE UG/L													10.0000		U
FLUORANTHENE UG/L													10.0000		U
FLUORENE UG/L													10.0000		U
HEXACHLOROBENZENE UG/L													10.0000		U
HEXACHLOROBUTADIENE UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		UJ
HEXACHLOROETHANE UG/L													10.0000		UJ
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		UJ
ISOPHORONE UG/L													10.0000		UJ
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		UJ
N-NITROSODIPHENYLAMINE UG/L													10.0000		U
NAPHTHALENE UG/L													10.0000		U
NITROBENZENE UG/L													10.0000		UJ
P-CHLOROANILINE UG/L													10.0000		U
PENTACHLOROPHENOL UG/L													50.0000		U
PHENANTHRENE UG/L													10.0000		U
PHENOL MG/L													10.0000		U
PYRENE UG/L													10.0000		U
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L													15.0000		-
1,1,2,2-TETRACHLOROETHANE UG/L													5.0000		UJ
1,1,2-TRICHLOROETHANE UG/L													5.0000		U
1,1-DICHLOROETHANE UG/L													7.0000		-
1,1-DICHLOROETHENE UG/L													1.0000		J
1,2-DICHLOROETHANE UG/L													5.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L													2.0000		J
1,2-DICHLOROPROPANE UG/L													5.0000		U
2-BUTANONE UG/L													10.0000		UJ
2-HEXANONE UG/L													10.0000		U
4-METHYL-2-PENTANONE UG/L													10.0000		U
ACETONE UG/L													10.0000		UJ
BENZENE UG/L													5.0000		UJ
BROMODICHLOROMETHANE UG/L													5.0000		U

001442

9704

SAMPLE NUMBER:		118318			045558			045559			045560			066913		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOFORM	UG/L													5.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													5.0000		U
CARBON TETRACHLORIDE	UG/L													5.0000		U
CHLOROBENZENE	UG/L													5.0000		UJ
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													5.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		UJ
METHYLENE CHLORIDE	UG/L													5.0000		UJ
STYRENE	UG/L													5.0000		UJ
TETRACHLOROETHENE	UG/L													7.0000		-
TOLUENE	UG/L													5.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
TRICHLOROETHENE	UG/L													1.0000		J
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045395	045396	045397	066914	066916
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1232	1232	1232	1232	1232
DEPTH:	-	-	-	-	-
DATE COLLECTED:	17-OCT-89	17-OCT-89	23-JAN-90	18-JUL-90	18-JUL-90
NORTH COORDINATE:	480283.91	480283.91	480283.91	480283.91	480283.91
EAST COORDINATE:	1380232.42	1380232.42	1380232.42	1380232.42	1380232.42
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DUPLICATE
QC OF:					066914
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				154.0000		-	91.3000		-						
INORGANICS																
ALUMINUM	MG/L										0.6010		-	0.5730		-
ANTIMONY	MG/L										0.0513		-	0.0566		-
ARSENIC	MG/L										0.0020		UJ	0.0020		UJ
BARIUM	MG/L										0.1470		-	0.1140		-
BERYLLIUM	MG/L										0.0056		-	0.0061		-
CADMIUM	MG/L										0.0113		-	0.0134		-
CALCIUM	MG/L										226.0000		-	225.0000		-
CHROMIUM	MG/L										0.1640		-	0.1660		-
COBALT	MG/L										0.0193		-	0.0232		-
COPPER	MG/L										0.0365		-	0.0365		-
CYANIDE	MG/L										0.0020		UJ	0.0020		UJ
IRON	MG/L										0.1500		-	0.0578		-
LEAD	MG/L										0.0020		UJ	0.0020		UJ
MAGNESIUM	MG/L										75.2000		-	74.1000		-
MANGANESE	MG/L										0.4740		-	0.5080		-
MERCURY	MG/L										0.0002		U	0.0002		U
NICKEL	MG/L										0.0515		-	0.0448		-
POTASSIUM	MG/L										2.8200		-	2.7300		-
SELENIUM	MG/L										0.0020		UJ	0.0020		UJ
SILVER	MG/L										0.0693		-	0.0700		-
SODIUM	MG/L										33.9000		-	33.5000		-
THALLIUM	MG/L										0.0020		UJ	0.0020		UJ
VANADIUM	MG/L										0.0591		-	0.0601		-
ZINC	MG/L										0.0197		U	0.0185		U

001444

5704

PESTICIDES														
4,4'-DDD	UG/L									0.1000		U	0.1000	U
06/21/94														

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 926

SAMPLE NUMBER:	045395			045396			045397			066914			066916		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	UG/L										0.1000		U	0.1000	U
4,4'-DDT	UG/L										0.1000		U	0.1000	U
ALDRIN	UG/L										0.0500		U	0.0500	U
ALPHA-BHC	UG/L										0.0500		U	0.0500	U
ALPHA-CHLORDANE	UG/L										0.5000		U	0.5000	U
AROCLOR-1016	UG/L										0.5000		U	0.5000	U
AROCLOR-1221	UG/L										0.5000		U	0.5000	U
AROCLOR-1232	UG/L										0.5000		U	0.5000	U
AROCLOR-1242	UG/L										0.5000		U	0.5000	U
AROCLOR-1248	UG/L										0.5000		U	0.5000	U
AROCLOR-1254	UG/L										1.0000		U	1.0000	U
AROCLOR-1260	UG/L										1.0000		U	1.0000	U
BETA-BHC	UG/L										0.0500		U	0.0500	U
DELTA-BHC	UG/L										0.0500		U	0.0500	U
DIELDRIN	UG/L										0.1000		U	0.1000	U
ENDOSULFAN II	UG/L										0.1000		U	0.1000	U
ENDOSULFAN SULFATE	UG/L										0.1000		U	0.1000	U
ENDOSULFAN-I	UG/L										0.0500		U	0.0500	U
ENDRIN	UG/L										0.1000		U	0.1000	U
ENDRIN KETONE	UG/L										0.1000		U	0.1000	U
GAMMA-BHC (LINDANE)	UG/L										0.0500		U	0.0500	U
GAMMA-CHLORDANE	UG/L										0.5000		U	0.5000	U
HEPTACHLOR	UG/L										0.0500		U	0.0500	U
HEPTACHLOR EPOXIDE	UG/L										0.0500		U	0.0500	U
METHOXYCHLOR	UG/L										0.5000		U	0.5000	U
TOXAPHENE	UG/L										1.0000		U	1.0000	U
RADIONUCLIDES															
URANIUM-238	PCI/L										8851.0000	1269	J	7264.0000	1784	R
URANIUM, TOTAL	UG/L	15700.0000		-				38900.0000	5300	-	26677.0000	3845	J	25600.0000	3420	J
URANIUM-234	PCI/L										10081.0000	1439	J	7761.0000	1905	R
THORIUM-230	PCI/L										5.3900	1.87	J	2.9200	1.16	J
RADIUM-226	PCI/L										1.0000		U	1.0000		U
URANIUM-235/236	PCI/L										802.0000	156	J	605.0000	161	R
THORIUM-232	PCI/L										7.3000	2.2	J	3.3200	1.24	J
THORIUM, TOTAL	UG/L										65.9000	19.8	J	30.0000	11.2	J
RADIUM-228	PCI/L										3.0000		UJ	3.0000		UJ
THORIUM-228	PCI/L										4.3800	1.69	J	3.6500	1.29	J
NEPTUNIUM-237	PCI/L										1.0000		UJ	1.0000		UJ
PLUTONIUM-239/240	PCI/L										1.0000		UJ	1.0000		UJ

SAMPLE NUMBER:	045395			045396			045397			066914			066916		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
PLUTONIUM-238 PCI/L										1.0000		UJ	1.0000		UJ
STRONTIUM-90 PCI/L										5.0000		UJ	5.0000		UJ
TECHNETIUM-99 PCI/L										1740.0000	185	J	2010.0000	212	J
RUTHENIUM-106 PCI/L										165.0000		UJ	150.0000		R
CESIUM-137 PCI/L										20.0000		UJ	20.0000		R
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L										10.0000		U	10.0000		U
1,2-DICHLOROBENZENE UG/L										10.0000		U	10.0000		U
1,3-DICHLOROBENZENE UG/L										10.0000		U	10.0000		U
1,4-DICHLOROBENZENE UG/L										10.0000		U	10.0000		U
2,4,5-TRICHLOROPHENOL UG/L										50.0000		U	50.0000		U
2,4,6-TRICHLOROPHENOL UG/L										10.0000		U	10.0000		U
2,4-DICHLOROPHENOL UG/L										10.0000		U	10.0000		U
2,4-DIMETHYLPHENOL UG/L										10.0000		U	10.0000		U
2,4-DINITROPHENOL UG/L										50.0000		U	50.0000		U
2,4-DINITROTOLUENE UG/L										10.0000		U	10.0000		U
2,6-DINITROTOLUENE UG/L										10.0000		U	10.0000		U
2-CHLORONAPHTHALENE UG/L										10.0000		U	10.0000		U
2-CHLOROPHENOL UG/L										10.0000		U	10.0000		U
2-METHYLNAPHTHALENE UG/L										10.0000		U	10.0000		U
2-METHYLPHENOL UG/L										10.0000		U	10.0000		U
2-NITROANILINE UG/L										50.0000		UJ	50.0000		UJ
2-NITROPHENOL UG/L										10.0000		U	10.0000		U
3,3'-DICHLOROBENZIDINE UG/L										20.0000		U	20.0000		U
3-NITROANILINE UG/L										50.0000		UJ	50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL UG/L										50.0000		U	50.0000		U
4-BROMOPHENYL PHENYL ETHER UG/L										10.0000		U	10.0000		U
4-CHLORO-3-METHYLPHENOL UG/L										10.0000		U	10.0000		U
4-CHLOROPHENYLPHENYL ETHER UG/L										10.0000		U	10.0000		U
4-METHYLPHENOL UG/L										10.0000		U	10.0000		U
4-NITROANILINE UG/L										50.0000		UJ	50.0000		UJ
4-NITROPHENOL UG/L										50.0000		U	50.0000		U
ACENAPHTHENE UG/L										10.0000		U	10.0000		U
ACENAPHTHYLENE UG/L										10.0000		U	10.0000		U
ANTHRACENE UG/L										10.0000		U	10.0000		U
BENZO(A)ANTHRACENE UG/L										10.0000		U	10.0000		U
BENZO(A)PYRENE UG/L										10.0000		U	10.0000		U
BENZO(B)FLUORANTHENE UG/L										10.0000		U	10.0000		U
BENZO(G,H,I)PERYLENE UG/L										10.0000		U	10.0000		U
BENZO(K)FLUORANTHENE UG/L										10.0000		U	10.0000		U
BENZOIC ACID UG/L										50.0000		U	50.0000		U
BENZYL ALCOHOL UG/L										10.0000		U	10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		U	10.0000		U

001446

5204

SAMPLE NUMBER:	045395			045396			045397			066914			066916		
LAB:										IT			IT		
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		U	10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		UR	10.0000		UR
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										10.0000		U	10.0000		U
BUTYL BENZYL PHTHALATE UG/L										10.0000		U	10.0000		U
CHRYSENE UG/L										10.0000		U	10.0000		U
DI-N-BUTYL PHTHALATE UG/L										10.0000		U	10.0000		U
DI-N-OCTYL PHTHALATE UG/L										10.0000		U	10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		UJ	10.0000		UJ
DIBENZOFURAN UG/L										10.0000		U	10.0000		U
DIETHYL PHTHALATE UG/L										10.0000		U	10.0000		U
DIMETHYL PHTHALATE UG/L										10.0000		U	10.0000		U
FLUORANTHENE UG/L										10.0000		U	10.0000		U
FLUORENE UG/L										10.0000		U	10.0000		U
HEXACHLOROBENZENE UG/L										10.0000		U	10.0000		U
HEXACHLOROBUTADIENE UG/L										10.0000		U	10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		UJ	10.0000		UJ
HEXACHLOROETHANE UG/L										10.0000		UJ	10.0000		UJ
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		UJ	10.0000		UJ
ISOPHORONE UG/L										10.0000		UJ	10.0000		UJ
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		UJ	10.0000		UJ
N-NITROSODIPHENYLAMINE UG/L										10.0000		U	10.0000		U
NAPHTHALENE UG/L										10.0000		U	10.0000		U
NITROBENZENE UG/L										10.0000		UJ	10.0000		UJ
P-CHLOROANILINE UG/L										10.0000		U	10.0000		U
PENTACHLOROPHENOL UG/L										50.0000		U	50.0000		U
PHENANTHRENE UG/L										10.0000		U	10.0000		U
PHENOL MG/L										10.0000		U	10.0000		U
PYRENE UG/L										10.0000		U	10.0000		U
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										15.0000		-	18.0000		-
1,1,2,2-TETRACHLOROETHANE UG/L										5.0000		UJ	5.0000		UJ
1,1,2-TRICHLOROETHANE UG/L										5.0000		U	5.0000		U
1,1-DICHLOROETHANE UG/L										6.0000		-	7.0000		-
1,1-DICHLOROETHENE UG/L										1.0000		J	1.0000		J
1,2-DICHLOROETHANE UG/L										5.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L										4.0000		J	5.0000		-
1,2-DICHLOROPROPANE UG/L										5.0000		U	5.0000		U
2-BUTANONE UG/L										10.0000		UJ	10.0000		UR
2-HEXANONE UG/L										10.0000		U	10.0000		UJ
4-METHYL-2-PENTANONE UG/L										10.0000		U	10.0000		U
ACETONE UG/L										10.0000		UJ	10.0000		UR
BENZENE UG/L										5.0000		UJ	5.0000		UJ
BROMODICHLOROMETHANE UG/L										5.0000		U	5.0000		U

SAMPLE NUMBER:	045395	045396	045397	066914	066916
LAB:				IT	IT
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOFORM	UG/L										5.0000		U	5.0000		U
BROMOMETHANE	UG/L										10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L										5.0000		U	5.0000		U
CARBON TETRACHLORIDE	UG/L										5.0000		U	5.0000		U
CHLOROBENZENE	UG/L										5.0000		UJ	5.0000		UJ
CHLOROETHANE	UG/L										10.0000		U	10.0000		U
CHLOROFORM	UG/L										5.0000		U	5.0000		U
CHLOROMETHANE	UG/L										10.0000		U	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U	5.0000		U
DIBROMOCHLOROMETHANE	UG/L										5.0000		U	5.0000		U
ETHYLBENZENE	UG/L										5.0000		UJ	5.0000		UJ
METHYLENE CHLORIDE	UG/L										5.0000		U	5.0000		U
STYRENE	UG/L										5.0000		UJ	5.0000		UJ
TETRACHLOROETHENE	UG/L										1.0000		J	2.0000		J
TOLUENE	UG/L										5.0000		UJ	5.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L										5.0000		U	5.0000		U
VINYL ACETATE	UG/L										10.0000		UJ	10.0000		U
VINYL CHLORIDE	UG/L										10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L										5.0000		UJ	5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045205	045206	045792	045793	045794
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	1233	1233	1233	1233	1233
DEPTH:	-	-	-	-	-
DATE COLLECTED:	08-JUN-89	24-OCT-89	24-OCT-89	07-MAY-90	07-MAY-90
NORTH COORDINATE:	480245.01	480245.01	480245.01	480245.01	480245.01
EAST COORDINATE:	1380269.37	1380269.37	1380269.37	1380269.37	1380269.37
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							288.0000		-				134.0000		-
RADIONUCLIDES																
URANIUM-238	PCI/L										1169.0000	260	J			
URANIUM, TOTAL	UG/L	21650.0000		NV	21400.0000	3000	J				2080.0000	601	-			
URANIUM-234	PCI/L										580.0000	130	J			
THORIUM-230	PCI/L										1.0000		U			
RADIUM-226	PCI/L										1.0000		UNV			
URANIUM-235/236	PCI/L										104.0000	25	J			
THORIUM-232	PCI/L										1.0000		U			
THORIUM, TOTAL	UG/L										4.6000		U			
RADIUM-228	PCI/L										3.0000		U			
THORIUM-228	PCI/L										1.0000		U			
NEPTUNIUM-237	PCI/L										1.0000		U			
PLUTONIUM-239/240	PCI/L										1.0000		U			
PLUTONIUM-238	PCI/L										1.0000		U			
STRONTIUM-90	PCI/L										27.2000	3.8	J			
TECHNETIUM-99	PCI/L										3729.0000	387	R			
RUTHENIUM-106	PCI/L										150.0000		R			
CESIUM-137	PCI/L										20.0000		R			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066915				045288				045289				045796				118321						
TASK:	3.7				3.7				3.7				3.7				50.03.23						
LAB:	IT				IT				IT				IT				FERMCO						
WELL OR BORING NUMBER:	1233				1234				1234				1234				1234						
DEPTH:	-				-				-				-				-						
DATE COLLECTED:	18-JUL-90				04-OCT-89				04-OCT-89				23-JAN-90				17-MAY-93						
NORTH COORDINATE:	480245.01				480207.9				480207.9				480207.9				480207.9						
EAST COORDINATE:	1380269.37				1380230.49				1380230.49				1380230.49				1380230.49						
QA TYPE:	NORMAL				NORMAL				NORMAL				NORMAL				NORMAL						
QC OF:																							
SUFFIX/FILTERFLAG:	NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF						
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)				
GENERAL CHEMISTRY																							
NITRATE	MG/L								0.1000		U		0.7700		-								
INORGANICS																							
ALUMINUM	MG/L	0.8910		-																			
ANTIMONY	MG/L	0.0593		-																			
ARSENIC	MG/L	0.0020		UJ																			
BARIUM	MG/L	0.1290		-																			
BERYLLIUM	MG/L	0.0086		-																			
CADMIUM	MG/L	0.0145		-																			
CALCIUM	MG/L	265.0000		-																			
CHROMIUM	MG/L	0.2510		-																			
COBALT	MG/L	0.0226		-																			
COPPER	MG/L	0.0523		-																			
CYANIDE	MG/L	0.5519		J																			
IRON	MG/L	0.0737		-																			
LEAD	MG/L	0.0020		UJ																			
MAGNESIUM	MG/L	87.0000		-																			
MANGANESE	MG/L	0.2650		-																			
MERCURY	MG/L	0.0002		U																			
NICKEL	MG/L	0.0580		-																			
POTASSIUM	MG/L	3.0200		-																			
SELENIUM	MG/L	0.0020		UJ																			
SILVER	MG/L	0.1020		-																			
SODIUM	MG/L	32.0000		-																			
THALLIUM	MG/L	0.0020		UJ																			
VANADIUM	MG/L	0.0853		-																			
ZINC	MG/L	0.0116		U																			

PESTICIDES

4,4'-DDD UG/L 0.1000 U
06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 932

SAMPLE NUMBER:		066915			045288			045289			045796			118321	
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	UG/L	0.1000		U											
4,4'-DDT	UG/L	0.1000		U											
ALDRIN	UG/L	0.0500		U											
ALPHA-BHC	UG/L	0.0500		U											
ALPHA-CHLORDANE	UG/L	0.5000		U											
AROCLOR-1016	UG/L	0.5000		U											
AROCLOR-1221	UG/L	0.5000		U											
AROCLOR-1232	UG/L	0.5000		U											
AROCLOR-1242	UG/L	0.5000		U											
AROCLOR-1248	UG/L	0.5000		U											
AROCLOR-1254	UG/L	1.0000		U											
AROCLOR-1260	UG/L	1.0000		U											
BETA-BHC	UG/L	0.0500		U											
DELTA-BHC	UG/L	0.0500		U											
DIELDRIN	UG/L	0.1000		U											
ENDOSULFAN II	UG/L	0.1000		U											
ENDOSULFAN SULFATE	UG/L	0.1000		U											
ENDOSULFAN-I	UG/L	0.0500		U											
ENDRIN	UG/L	0.1000		U											
ENDRIN KETONE	UG/L	0.1000		U											
GAMMA-BHC (LINDANE)	UG/L	0.0500		U											
GAMMA-CHLORDANE	UG/L	0.5000		U											
HEPTACHLOR	UG/L	0.0500		U											
HEPTACHLOR EPOXIDE	UG/L	0.0500		U											
METHOXYCHLOR	UG/L	0.5000		U											
TOXAPHENE	UG/L	1.0000		U											
RADIONUCLIDES															
URANIUM, TOTAL	UG/L	10700.00880		J	1045.0000	149	-				2460.0000	360	-	1300.0000	NV
RADIUM-226	PCI/L	1.0000		U											
RADIUM-228	PCI/L	3.0000		UJ											
PLUTONIUM-239/240	PCI/L	1.0000		UJ											
PLUTONIUM-238	PCI/L	1.0000		UJ											
STRONTIUM-90	PCI/L	5.0000		UJ											
TECHNETIUM-99	PCI/L	6130.00884		J											
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U											
1,2-DICHLOROBENZENE	UG/L	10.0000		U											

001451

SAMPLE NUMBER:	066915			045288			045289			045796			118321		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		U												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		UJ												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U												
3-NITROANILINE	UG/L	50.0000		UJ												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		UJ												
4-NITROPHENOL	UG/L	50.0000		U												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		U												
BENZYL ALCOHOL	UG/L	10.0000		U												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UR												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U												
CHRYSENE	UG/L	10.0000		U												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												

SAMPLE NUMBER:	066915			045288			045289			045796			118321		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ETHYLBENZENE	UG/L	5.0000		UJ												
METHYLENE CHLORIDE	UG/L	5.0000		U												
STYRENE	UG/L	5.0000		UJ												
TETRACHLOROETHENE	UG/L	5.0000		U												
TOLUENE	UG/L	5.0000		UJ												
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
TRICHLOROETHENE	UG/L	5.0000		U												
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	5.0000		UJ												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118322			118323			118324			118325			118326
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23
LAB:		FERMCO			DATACHEM			DATACHEM			CORE			CORE
WELL OR BORING NUMBER:		1234			1234			1234			1234			1234
DEPTH:		-			-			-			-			-
DATE COLLECTED:		17-MAY-93			17-MAY-93			17-MAY-93			17-MAY-93			17-MAY-93
NORTH COORDINATE:		480207.9			480207.9			480207.9			480207.9			480207.9
EAST COORDINATE:		1380230.49			1380230.49			1380230.49			1380230.49			1380230.49
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L				0.0500		U									
NITRATE/NITRITE	MG/L				1.8000		-									
PHENOLS	MG/L				0.0200		U									
PHOSPHORUS	MG/L				0.3600		-									
SULFIDE	MG/L				1.0000		U									
TOTAL ORGANIC CARBON	MG/L				1.0000		U									
TOTAL ORGANIC HALIDES	MG/L				0.0400		-									
INORGANICS																
ALUMINUM	MG/L				5.1000		-	0.0290		U						
ANTIMONY	MG/L				0.0450		U	0.0450		U						
ARSENIC	MG/L				0.0013		UJ	0.0014		UJ						
BARIUM	MG/L				0.0819		-	0.0452		-						
BERYLLIUM	MG/L				0.0010		U	0.0010		U						
CADMIUM	MG/L				0.0030		U	0.0030		U						
CALCIUM	MG/L				78.1000		-	54.9000		-						
CHROMIUM	MG/L				0.0076		J	0.0040		UJ						
COBALT	MG/L				0.0060		U	0.0060		U						
COPPER	MG/L				0.0125		U	0.0040		U						
CYANIDE	MG/L				0.0100		UJ	0.0100		UJ						
IRON	MG/L				7.7000		-	0.0150		U						
LEAD	MG/L				0.0048		UJ	0.0010		UJ						
MAGNESIUM	MG/L				24.1000		-	15.6000		-						
MANGANESE	MG/L				0.5310		-	0.0017		U						
MERCURY	MG/L				0.0002		U	0.0002		U						
NICKEL	MG/L				0.0253		-	0.0190		U						
POTASSIUM	MG/L				1.4500		-	0.4320		U						
SELENIUM	MG/L				0.0010		UJ	0.0011		UJ						
SILVER	MG/L				0.0030		UJ	0.0030		UJ						

001454

5704

SAMPLE NUMBER:		118322			118323			118324			118325			118326		
LAB:					DATACHEM											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
TRICHLOROETHENE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	047003	062960	062961	045207	045208
TASK:	3.7	04.23	04.23	3.7	3.7
LAB:	IT	IT	WMCO	WMCO	IT
WELL OR BORING NUMBER:	1235	1235	1235	1236	1236
DEPTH:	-	-	-	-	-
DATE COLLECTED:	20-DEC-91	02-JUL-92	02-JUL-92	04-JUN-89	24-OCT-89
NORTH COORDINATE:	480225.25	480225.25	480225.25	480307.05	480307.05
EAST COORDINATE:	1380394.38	1380394.38	1380394.38	1380517.69	1380517.69
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	9.4400		-												
INORGANICS																
ALUMINUM	MG/L				0.0300		U									
ANTIMONY	MG/L				0.0300		UJ									
ARSENIC	MG/L				0.0021		J									
BARIUM	MG/L				0.0805		-									
BERYLLIUM	MG/L				0.0020		U									
CADMIUM	MG/L				0.0050		UJ									
CALCIUM	MG/L				143.0000		-									
CHROMIUM	MG/L				0.0100		UJ									
COBALT	MG/L				0.0100		U									
COPPER	MG/L				0.0100		U									
CYANIDE	MG/L				0.0020		U									
IRON	MG/L				0.0200		U									
LEAD	MG/L				0.0020		U									
MAGNESIUM	MG/L				98.9000		-									
MANGANESE	MG/L				0.4490		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.0200		U									
NICKEL	MG/L				0.0200		U									
POTASSIUM	MG/L				2.9200		-									
SELENIUM	MG/L				0.0020		U									
SILICON	MG/L				7.3200		-									
SILVER	MG/L				0.0100		UJ									
SODIUM	MG/L				42.0000		-									
THALLIUM	MG/L				0.0020		UJ									
VANADIUM	MG/L				0.0100		U									
ZINC	MG/L				0.0348		-									

SAMPLE NUMBER:	047003			062960		062961			045207			045208		
LAB:				IT										
SUFFIX/FILTERFLAG:	-			F-FIL		-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES														
4,4'-DDD UG/L				0.1000	U									
4,4'-DDE UG/L				0.1000	U									
4,4'-DDT UG/L				0.1000	U									
ALDRIN UG/L				0.0500	U									
ALPHA-BHC UG/L				0.0500	U									
ALPHA-CHLORDANE UG/L				0.5000	U									
AROCLOR-1016 UG/L				0.5000	U									
AROCLOR-1221 UG/L				0.5000	U									
AROCLOR-1232 UG/L				0.5000	U									
AROCLOR-1242 UG/L				0.5000	U									
AROCLOR-1248 UG/L				0.5000	U									
AROCLOR-1254 UG/L				1.0000	U									
AROCLOR-1260 UG/L				1.0000	U									
BETA-BHC UG/L				0.0500	U									
DELTA-BHC UG/L				0.0500	U									
DIELDRIN UG/L				0.1000	U									
ENDOSULFAN II UG/L				0.1000	U									
ENDOSULFAN SULFATE UG/L				0.1000	U									
ENDOSULFAN-I UG/L				0.0500	U									
ENDRIN UG/L				0.1000	U									
ENDRIN KETONE UG/L				0.1000	U									
GAMMA-BHC (LINDANE) UG/L				0.0500	U									
GAMMA-CHLORDANE UG/L				0.5000	U									
HEPTACHLOR UG/L				0.0500	U									
HEPTACHLOR EPOXIDE UG/L				0.0500	U									
METHOXYCHLOR UG/L				0.5000	U									
TOXAPHENE UG/L				1.0000	U									
RADIONUCLIDES														
URANIUM-238 PCI/L									3200.0000		NV			
URANIUM, TOTAL UG/L	55.60009.1		-			414.0000		NV	9630.0000		NV	2210.0000	310	J
URANIUM-234 PCI/L									3900.0000		NV			
THORIUM, TOTAL UG/L	0.7000		U											
URANIUM-235 PCI/L									160.0000		NV			
URANIUM-236 PCI/L									68.0000		NV			
SEMIVOLATILES														
1,2,4-TRICHLOROBENZENE UG/L				10.0000	U									
1,2-DICHLOROBENZENE UG/L				10.0000	U									
1,3-DICHLOROBENZENE UG/L				10.0000	U									
1,4-DICHLOROBENZENE UG/L				10.0000	U									
2,4,5-TRICHLOROPHENOL UG/L				50.0000	U									
2,4,6-TRICHLOROPHENOL UG/L				10.0000	U									

SAMPLE NUMBER:	047003	062960	062961	045207	045208
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				50.0000		U									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		U									
3-NITROANILINE	UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				50.0000		U									
4-NITROPHENOL	UG/L				50.0000		U									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		UJ									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									

SAMPLE NUMBER:	047003	062960	062961	045207	045208
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
STYRENE	UG/L				5.0000		U									
TETRACHLOROETHENE	UG/L				5.0000		U									
TOLUENE	UG/L				5.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
TRICHLOROETHENE	UG/L				5.0000		U									
VINYL ACETATE	UG/L				10.0000		UJ									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				5.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045800	045801	045802	118328	118329
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	1236	1236	1236	1236	1236
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-OCT-89	07-FEB-90	05-MAY-90	17-MAY-93	17-MAY-93
NORTH COORDINATE:	480307.05	480307.05	480307.05	480307.05	480307.05
EAST COORDINATE:	1380517.69	1380517.69	1380517.69	1380517.69	1380517.69
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										0.9200		-			
NITRATE	MG/L	2.8600		-	12.4200		J									
NITRATE/NITRITE	MG/L										2.7000		-			
PHENOLS	MG/L										0.0200		U			
PHOSPHORUS	MG/L										5.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										2.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0100		-			
INORGANICS																
ALUMINUM	MG/L										35.2000		-	0.7300		-
ANTIMONY	MG/L										0.0450		U	0.0450		U
ARSENIC	MG/L										0.0038		UJ	0.0017		UJ
BARIUM	MG/L										0.2410		-	0.0075		-
BERYLLIUM	MG/L										0.0024		U	0.0010		U
CADMIUM	MG/L										0.0030		U	0.0030		J
CALCIUM	MG/L										180.0000		-	4.6500		-
CHROMIUM	MG/L										0.0603		-	0.0090		J
COBALT	MG/L										0.0179		-	0.0060		U
COPPER	MG/L										0.1030		-	0.0108		U
CYANIDE	MG/L										0.0100		UJ	0.0100		UJ
IRON	MG/L										55.7000		-	0.8020		-
LEAD	MG/L										0.0440		J	0.0032		UJ
MAGNESIUM	MG/L										68.1000		-	1.7800		-
MANGANESE	MG/L										1.5300		-	0.0190		-
MERCURY	MG/L										0.0004		-	0.0002		U
NICKEL	MG/L										0.0548		-	0.0190		U
POTASSIUM	MG/L										13.8000		-	5.9600		-
SELENIUM	MG/L										0.0100		UJ	0.0010		UJ

SAMPLE NUMBER:		045800			045801			045802			118328			118329		
LAB:											DATACHEM			DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L										0.0032		UJ	0.0032		UJ
SODIUM	MG/L										103.0000		-	80.9000		-
THALLIUM	MG/L										0.0010		UJ	0.0010		UJ
VANADIUM	MG/L										0.0549		-	0.0040		U
ZINC	MG/L										0.1760		-	0.0060		U
RADIONUCLIDES																
URANIUM-238	PCI/L							1676.0000	204	R						
URANIUM, TOTAL	UG/L							5430.0000	840	-						
URANIUM-234	PCI/L							1633.0000	199	R						
THORIUM-230	PCI/L							1.0000		U						
RADIUM-226	PCI/L							3.4400	.52	NV						
URANIUM-235/236	PCI/L							127.0000	30	R						
THORIUM-232	PCI/L							1.0000		U						
THORIUM, TOTAL	UG/L							5.1000		U						
RADIUM-228	PCI/L							3.0000		UJ						
THORIUM-228	PCI/L							1.0000		U						
NEPTUNIUM-237	PCI/L							1.0000		U						
PLUTONIUM-239/240	PCI/L							1.0000		UJ						
PLUTONIUM-238	PCI/L							1.0000		UJ						
STRONTIUM-90	PCI/L							5.0000		UJ						
TECHNETIUM-99	PCI/L							6382.0000	652	R						
RUTHENIUM-106	PCI/L							150.0000		R						
CESIUM-137	PCI/L							20.0000		R						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										3.0000		J			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			

001961

SAMPLE NUMBER:	045800			045801			045802			118328			118329		
LAB:										DATACHEM					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CARBON TETRACHLORIDE UG/L										10.0000		U			
CHLOROBENZENE UG/L										10.0000		U			
CHLOROETHANE UG/L										10.0000		U			
CHLOROFORM UG/L										10.0000		U			
CHLOROMETHANE UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
DIBROMOCHLOROMETHANE UG/L										10.0000		U			
ETHYLBENZENE UG/L										10.0000		U			
METHYLENE CHLORIDE UG/L										10.0000		U			
STYRENE UG/L										10.0000		U			
TETRACHLOROETHENE UG/L										0.7000		J			
TOLUENE UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
TRICHLOROETHENE UG/L										10.0000		U			
VINYL CHLORIDE UG/L										10.0000		U			
XYLENES, TOTAL UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045804	045805	045806	098907	098916
TASK:	3.7	3.7	3.7	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1237	1237	1237	1237	1237
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-OCT-89	24-OCT-89	01-FEB-90	16-JUN-92	17-JUN-92
NORTH COORDINATE:	480279.81	480279.81	480279.81	480279.81	480279.81
EAST COORDINATE:	1380686.21	1380686.21	1380686.21	1380686.21	1380686.21
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L													0.1500		NV
CHLORIDE	MG/L													46.7000		NV
FLUORIDE	MG/L													0.2200		NV
NITRATE	MG/L				0.1000		U	0.1000		U						
PHOSPHORUS	MG/L													0.1250		NV
SULFATE	MG/L													136.3000		NV
SULFIDE	MG/L													0.5000		UNV
TOTAL ORGANIC CARBON	MG/L										1.5700		U			
TOTAL ORGANIC HALIDES	MG/L										0.0323		U			
TOTAL ORGANIC NITROGEN	MG/L													0.0400		NV
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	10.00002		J												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										5.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHENE	UG/L										5.0000		U			
1,2-DICHLOROETHANE	UG/L										5.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U			
1,2-DICHLOROPROPANE	UG/L										5.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	098918	098919	098920	098940	099020
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	WMCO	IT
WELL OR BORING NUMBER:	1237	1237	1237	1237	1237
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-JUN-92	24-JUN-92	25-JUN-92	26-JUN-92	29-OCT-92
NORTH COORDINATE:	480279.81	480279.81	480279.81	480279.81	480279.81
EAST COORDINATE:	1380686.21	1380686.21	1380686.21	1380686.21	1380686.21
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE/NITRITE	MG/L	0.1000		U												
PHENOLS	MG/L	0.0100		U												
TOTAL ORGANIC CARBON	MG/L													1.7000		-
TOTAL ORGANIC HALIDES	MG/L													44.9000		-
INORGANICS																
ALUMINUM	MG/L				0.0300		U									
ANTIMONY	MG/L				0.0348		J									
ARSENIC	MG/L				0.0020		U									
BARIUM	MG/L				0.0832		-									
BERYLLIUM	MG/L				0.0020		U									
CADMIUM	MG/L				0.0050		U									
CALCIUM	MG/L				140.0000		-									
CHROMIUM	MG/L				0.0100		U									
COBALT	MG/L				0.0100		U									
COPPER	MG/L				0.0100		U									
IRON	MG/L				0.0541		-									
LEAD	MG/L				0.0020		U									
MAGNESIUM	MG/L				38.8000		-									
MANGANESE	MG/L				0.1850		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.0252		-									
NICKEL	MG/L				0.0200		U									
POTASSIUM	MG/L				2.8500		-									
SELENIUM	MG/L				0.0020		UJ									
SILICON	MG/L				7.3400		-									
SILVER	MG/L				0.0100		UJ									
SODIUM	MG/L				43.3000		-									
VANADIUM	MG/L				0.0100		U									

SAMPLE NUMBER:		098918			098919			098920			098940			099020		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		U
METHYLENE CHLORIDE	UG/L													6.0000		UJ
STYRENE	UG/L													5.0000		U
TETRACHLOROETHENE	UG/L													5.0000		U
TOLUENE	UG/L													5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
TRICHLOROETHENE	UG/L													5.0000		U
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													5.0000		U

SAMPLE NUMBER:		099021			099025			099034			099044			099052		
LAB:														IT/MWL		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L													0.0200		U
POTASSIUM	MG/L										1.7400		NV	2.9800		-
SELENIUM	MG/L													0.0020		U
SILICON	MG/L													7.8300		-
SILVER	MG/L													0.0100		U
SODIUM	MG/L													33.5000		-
THALLIUM	MG/L													0.0020		U
VANADIUM	MG/L													0.0100		U
ZINC	MG/L													0.0050		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	7.1000		NV												
GROSS ALPHA	PCI/L										9.1000		UNV			
GROSS BETA	PCI/L										9.4300	3.97	NV			

URANIUM-238	PCI/L						2.4000	.65	-	26.0000		NV				
SAMPLE NUMBER:		099060			099071			099085			045147			045809		
LAB:								IT			WMCO					
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L							5.3600	.82	-	50.0000		NV	78.0000	8	J
URANIUM-234	PCI/L							2.4300	.66	-	23.0000		NV			
RADIUM-226	PCI/L							1.0000	.08	UJ						
URANIUM-235/236	PCI/L							0.2000	.1	UJ						
RADIUM-228	PCI/L							3.0000		UJ						
NEPTUNIUM-237	PCI/L							0.5000		UJ						
PLUTONIUM-239/240	PCI/L							0.5000		UJ						
PLUTONIUM-238	PCI/L							0.5000		UJ						
STRONTIUM-90	PCI/L							1.7000		UJ						
TECHNETIUM-99	PCI/L							15.0000		UJ						
RUTHENIUM-106	PCI/L							150.0000		UJ						
CESIUM-137	PCI/L							13.0000		UJ						
GROSS ALPHA	PCI/L							524.0000	69	NV						
GROSS BETA	PCI/L							149.0000	20	NV						
URANIUM-235	PCI/L										1.1000		NV			
URANIUM-236	PCI/L										0.2500		NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		UJ												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		UJ												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U												
3-NITROANILINE	UG/L	50.0000		U												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		UJ												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		U												

SAMPLE NUMBER:	099060	099071	099085	045147	045809
LAB:	IT				
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	-

		099060 RESULT	SIGMA	VAL QUAL(1)	099071 RESULT	SIGMA	VAL QUAL(1)	099085 RESULT	SIGMA	VAL QUAL(1)	045147 RESULT	SIGMA	VAL QUAL(1)	045809 RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-NITROPHENOL	UG/L	50.0000		U												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		U												
BENZYL ALCOHOL	UG/L	10.0000		U												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		UJ												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		UJ												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U												
CHRYSENE	UG/L	10.0000		U												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												
DIMETHYL PHTHALATE	UG/L	10.0000		U												
FLUORANTHENE	UG/L	10.0000		U												
FLUORENE	UG/L	10.0000		U												
HEXACHLOROBENZENE	UG/L	10.0000		U												
HEXACHLOROBUTADIENE	UG/L	10.0000		U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U												
HEXACHLOROETHANE	UG/L	10.0000		UJ												
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U												
ISOPHORONE	UG/L	10.0000		U												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U												
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U												
NAPHTHALENE	UG/L	10.0000		UJ												
NITROBENZENE	UG/L	10.0000		U												
P-CHLOROANILINE	UG/L	10.0000		U												
PENTACHLOROPHENOL	UG/L	50.0000		U												
PHENANTHRENE	UG/L	10.0000		U												
PHENOL	MG/L	10.0000		U												
PYRENE	UG/L	10.0000		U												
TRIBUTYL PHOSPHATE	UG/L	10.0000		U												

SAMPLE NUMBER:		045810			045811			045812			118206			118209		
LAB:											LOCKHEED					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L										3.4200		NV			
SELENIUM	MG/L										0.0010		UNV			
SILVER	MG/L										0.0040		UNV			
SODIUM	MG/L										8.3800		NV			
THALLIUM	MG/L										0.0030		UNV			
VANADIUM	MG/L										0.0380		NV			
ZINC	MG/L										0.1220		NV			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				36.9000	6	-							37.0000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		UNV			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		UNV			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		UNV			
1,2-DICHLOROPROPANE	UG/L										10.0000		UNV			
2-HEXANONE	UG/L										10.0000		UNV			
4-METHYL-2-PENTANONE	UG/L										10.0000		UNV			
BENZENE	UG/L										10.0000		UNV			
BROMODICHLOROMETHANE	UG/L										10.0000		UNV			
BROMOFORM	UG/L										10.0000		UNV			
CARBON TETRACHLORIDE	UG/L										10.0000		UNV			
CHLOROBENZENE	UG/L										10.0000		UNV			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		UNV			
DIBROMOCHLOROMETHANE	UG/L										10.0000		UNV			
ETHYLBENZENE	UG/L										10.0000		UNV			
STYRENE	UG/L										10.0000		UNV			
TETRACHLOROETHENE	UG/L										10.0000		UNV			
TOLUENE	UG/L										10.0000		UNV			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		UNV			
TRICHLOROETHENE	UG/L										10.0000		UNV			
XYLENES, TOTAL	UG/L										10.0000		UNV			

SAMPLE NUMBER:	118210	118211	118212	118213	045156
LAB:	FERMCO	CORE	CORE	-	WMCO
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL		NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L				12.4000	1.6	J	11.1000	1.4	J				280.0000		NV
THORIUM-230	PCI/L				0.6000	.4	J	0.2000	.2	UJ						
RADIUM-226	PCI/L				2.6000	.8	-	1.0000	.6	UJ						
URANIUM-235/236	PCI/L				1.1000	.3	J	0.5000	.5	J						
THORIUM-232	PCI/L				0.5000	.3	J	0.2000	.2	UJ						
THORIUM, TOTAL	UG/L				4.5600	.3	NV									
RADIUM-228	PCI/L				3.1000	1.7	U	3.0000	1.2	UJ						
THORIUM-228	PCI/L				0.4000	.4	UJ	0.2000	.2	UJ						
TECHNETIUM-99	PCI/L				15.0000	6.4	UJ									
GROSS ALPHA	PCI/L				226.0000	35.1	NV	9.5000	2.9	NV						
GROSS BETA	PCI/L				211.0000	30.7	NV	11.8000	2.7	NV						
URANIUM-235	PCI/L													14.0000		NV
URANIUM-236	PCI/L													3.3000		NV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045814	045815	045816	118199	118200
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	FERMCO	FERMCO
WELL OR BORING NUMBER:	1240	1240	1240	1240	1240
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-OCT-89	24-OCT-89	03-FEB-90	15-MAY-93	15-MAY-93
NORTH COORDINATE:	480039.84	480039.84	480039.84	480039.84	480039.84
EAST COORDINATE:	1380055.08	1380055.08	1380055.08	1380055.08	1380055.08
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.7600		-	1.2000		-						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	745.000006		J							980.0000		NV	1000.0000		NV

001471

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118201			118203			118204			118205			045209		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			3.7		
LAB:		DATACHEM			DATACHEM			CORE			CORE			WMCO		
WELL OR BORING NUMBER:		1240			1240			1240			1240			1241		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		15-MAY-93			15-MAY-93			15-MAY-93			15-MAY-93			08-JUN-89		
NORTH COORDINATE:		480039.84			480039.84			480039.84			480039.84			480029.99		
EAST COORDINATE:		1380055.08			1380055.08			1380055.08			1380055.08			1380277.94		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.0500		U												
NITRATE/NITRITE	MG/L	0.9600		-												
PHENOLS	MG/L	0.0200		U												
PHOSPHORUS	MG/L	3.0000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	2.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0300		-												
INORGANICS																
ALUMINUM	MG/L	32.3000		-	0.0324		U									
ANTIMONY	MG/L	0.0450		U	0.0517		J									
ARSENIC	MG/L	0.0047		UJ	0.0010		UJ									
BARIUM	MG/L	0.2890		-	0.0626		-									
BERYLLIUM	MG/L	0.0025		U	0.0014		U									
CADMIUM	MG/L	0.0030		U	0.0034		J									
CALCIUM	MG/L	571.0000		-	79.5000		-									
CHROMIUM	MG/L	0.0459		-	0.0040		UJ									
COBALT	MG/L	0.0291		-	0.0065		-									
COPPER	MG/L	0.0697		-	0.0040		U									
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L	74.1000		-	0.0150		U									
LEAD	MG/L	0.0245		J	0.0018		U									
MAGNESIUM	MG/L	184.0000		-	21.3000		-									
MANGANESE	MG/L	2.5300		-	0.0017		U									
MERCURY	MG/L	0.0002		U	0.0002		U									
NICKEL	MG/L	0.0785		U	0.0239		U									
POTASSIUM	MG/L	8.6700		-	0.6570		U									
SELENIUM	MG/L	0.0138		R	0.0010		UR									
SILVER	MG/L	0.0030		UJ	0.0030		UJ									

001472

5704

SAMPLE NUMBER:		118201		118203		118204			118205			045209		
LAB:		DATACHEM		DATACHEM										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SODIUM	MG/L	33.2000		-	28.1000		-									
THALLIUM	MG/L	0.0010		U	0.0010		U									
VANADIUM	MG/L	0.0672		-	0.0040		U									
ZINC	MG/L	0.2110		-	0.0237		U									
RADIONUCLIDES																
URANIUM-238	PCI/L							355.0000	45.1	J	316.0000	40.5	J			
URANIUM, TOTAL	UG/L							1140.0000	79.7	-	1100.0000	77.1	-	16.6000		NV
URANIUM-234	PCI/L							345.0000	44.1	J	342.0000	43.5	J			
THORIUM-230	PCI/L							0.2000	.2	UJ	0.2000	.2	UJ			
RADIUM-226	PCI/L							1.0000	.6	U	1.8000	.7	R			
URANIUM-235/236	PCI/L							22.2000	6.2	J	17.0000	4.9	J			
THORIUM-232	PCI/L							0.2000	.2	UJ	0.3000	.2	J			
THORIUM, TOTAL	UG/L							0.9120	.2	NV	2.7360	.2	NV			
RADIUM-228	PCI/L							3.0000	1.4	U	3.0000	1.4	U			
THORIUM-228	PCI/L							0.3000	.2	UJ	0.3000	.2	J			
TECHNETIUM-99	PCI/L							31.6000	8.6	J	45.2000	8.6	J			
GROSS ALPHA	PCI/L							727.0000	21.6	NV	601.0000	71.9	NV			
GROSS BETA	PCI/L							390.0000	9.8	NV	983.0000	55.1	NV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		U												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												

SAMPLE NUMBER:	118201			118203			118204			118205			045209		
LAB:	DATACHEM														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL ACETATE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045210	045819	045821	118190	118191
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	1241	1241	1241	1241	1241
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-OCT-89	24-OCT-89	03-FEB-90	15-MAY-93	15-MAY-93
NORTH COORDINATE:	480029.99	480029.99	480029.99	480029.99	480029.99
EAST COORDINATE:	1380277.94	1380277.94	1380277.94	1380277.94	1380277.94
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										0.0500		U			
NITRATE	MG/L				0.1000		U	0.1000		U						
NITRATE/NITRITE	MG/L										0.0500		U			
PHENOLS	MG/L										0.0200		U			
PHOSPHORUS	MG/L										2.7000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										1.0000		U			
TOTAL ORGANIC HALIDES	MG/L										0.0400		-			
INORGANICS																
ALUMINUM	MG/L										9.6400		-	0.0140		U
ANTIMONY	MG/L										0.0450		U	0.0450		U
ARSENIC	MG/L										0.0050		UJ	0.0016		UJ
BARIUM	MG/L										0.1440		-	0.0523		-
BERYLLIUM	MG/L										0.0013		U	0.0013		U
CADMIUM	MG/L										0.0030		U	0.0030		U
CALCIUM	MG/L										239.0000		-	128.0000		-
CHROMIUM	MG/L										0.0196		UJ	0.0040		UJ
COBALT	MG/L										0.0163		-	0.0060		U
COPPER	MG/L										0.0187		U	0.0040		U
CYANIDE	MG/L										0.0100		U	0.0100		U
IRON	MG/L										23.1000		-	0.0150		U
LEAD	MG/L										0.0124		-	0.0010		UJ
MAGNESIUM	MG/L										95.1000		-	54.6000		-
MANGANESE	MG/L										1.5000		-	0.4930		-
MERCURY	MG/L										0.0002		U	0.0002		U
NICKEL	MG/L										0.0494		-	0.0220		-
POTASSIUM	MG/L										3.2200		-	0.7900		-
SELENIUM	MG/L										0.0017		R	0.0014		R

SAMPLE NUMBER:		045210			045819			045821			118190 DATACHEM NONE-UNF			118191 DATACHEM NONE-FIL		
LAB:																
SUFFIX/FILTERFLAG:		-			-			-								
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L										0.0030		UJ	0.0030		UJ
SODIUM	MG/L										14.0000		J	16.4000		J
THALLIUM	MG/L										0.0010		U	0.0010		UJ
VANADIUM	MG/L										0.0240		U	0.0040		U
ZINC	MG/L										0.0788		J	0.0060		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	924.000032		J												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		UJ			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			

SAMPLE NUMBER:	045210	045819	045821	118190	118191
LAB:				DATACHEM	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118194			118195			118196			118197			045154
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			3.7
LAB:		FERMCO			FERMCO			CORE			CORE			WMCO
WELL OR BORING NUMBER:		1241			1241			1241			1241			1242
DEPTH:		-			-			-			-			-
DATE COLLECTED:		15-MAY-93			15-MAY-93			15-MAY-93			15-MAY-93			01-JUN-89
NORTH COORDINATE:		480029.99			480029.99			480029.99			480029.99			480030.6
EAST COORDINATE:		1380277.94			1380277.94			1380277.94			1380277.94			1380507.21
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L							172.0000	19.2	J	200.0000	27.1	J	340.0000		NV
URANIUM, TOTAL	UG/L	200.0000		NV	620.0000		NV	465.0000	32.6	J	856.0000	59.9	-	1021.0000		NV
URANIUM-234	PCI/L							178.0000	19.8	J	214.0000	28.8	J	350.0000		NV
THORIUM-230	PCI/L							1.3000	.5	J	0.2000	.3	UJ			
RADIUM-226	PCI/L							1.7000	.7	J	1.1000	.6	U			
URANIUM-235/236	PCI/L							10.9000	2.5	J	17.7000	4.8	J			
THORIUM-232	PCI/L							0.5000	.3	J	0.2000	.2	UJ			
THORIUM, TOTAL	UG/L							4.5602	.3	NV						
RADIUM-228	PCI/L							3.8000	1.2	J	3.0000	1.2	U			
THORIUM-228	PCI/L							0.8000	.3	J	0.4000	.2	J			
TECHNETIUM-99	PCI/L										15.0000	7.8	UJ			
GROSS ALPHA	PCI/L							231.0000	37.4	NV	474.0000	18.8	NV			
GROSS BETA	PCI/L							285.0000	28.8	NV	230.0000	8.3	NV			
URANIUM-235	PCI/L													17.0000		NV
URANIUM-236	PCI/L													3.9000		NV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045823	045824	045825	045826	045827
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1242	1242	1242	1242	1242
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-OCT-89	24-OCT-89	24-OCT-89	24-OCT-89	03-FEB-90
NORTH COORDINATE:	480030.6	480030.6	480030.6	480030.6	480030.6
EAST COORDINATE:	1380507.21	1380507.21	1380507.21	1380507.21	1380507.21
QA TYPE:	NORMAL	NORMAL	DUPLICATE	DUPLICATE	NORMAL
QC OF:			045823	048824	
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.9400		-				1.1000		-	0.8800		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	996.00009		J				987.0000	144	J						

001479

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118272	118274	118275	118276	118277
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	DATACHEM	CORE	CORE	FERMCO	FERMCO
WELL OR BORING NUMBER:	1242	1242	1242	1242	1242
DEPTH:	-	-	-	-	-
DATE COLLECTED:	15-MAY-93	15-MAY-93	15-MAY-93	15-MAY-93	15-MAY-93
NORTH COORDINATE:	480030.6	480030.6	480030.6	480030.6	480030.6
EAST COORDINATE:	1380507.21	1380507.21	1380507.21	1380507.21	1380507.21
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.0500		U												
NITRATE/NITRITE	MG/L	0.9600		-												
PHENOLS	MG/L	0.0200		U												
PHOSPHORUS	MG/L	2.4000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	2.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0500		-												
INORGANICS																
ALUMINUM	MG/L	26.8000		-												
ANTIMONY	MG/L	0.0450		U												
ARSENIC	MG/L	0.0036		UJ												
BARIUM	MG/L	0.2450		-												
BERYLLIUM	MG/L	0.0019		U												
CADMIUM	MG/L	0.0030		U												
CALCIUM	MG/L	272.0000		-												
CHROMIUM	MG/L	0.0320		J												
COBALT	MG/L	0.0252		-												
COPPER	MG/L	0.0604		-												
CYANIDE	MG/L	0.0100		U												
IRON	MG/L	60.5000		-												
LEAD	MG/L	0.0172		-												
MAGNESIUM	MG/L	94.0000		-												
MANGANESE	MG/L	1.1600		-												
MERCURY	MG/L	0.0002		U												
NICKEL	MG/L	0.0814		U												
POTASSIUM	MG/L	6.9200		-												
SELENIUM	MG/L	0.0100		UR												
SILVER	MG/L	0.0030		UJ												

001480

5704

SAMPLE NUMBER:		118272		118274			118275			118276			118277		
LAB:		DATACHEM													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SODIUM	MG/L	11.5000		-												
THALLIUM	MG/L	0.0010		-												
VANADIUM	MG/L	0.0516		-												
ZINC	MG/L	0.1650		-												
RADIONUCLIDES																
URANIUM-238	PCI/L				150.0000	23.8	J	459.0000	69.5	-						
URANIUM, TOTAL	UG/L				136.0000	9.5	-	1280.0000	89.5	-	1500.0000		NV	1200.0000		NV
URANIUM-234	PCI/L				133.0000	21.3	J	444.0000	68.3	-						
THORIUM-230	PCI/L				0.3000	.2	R	0.2000	.2	UJ						
RADIUM-226	PCI/L				1.1000	.4	J	1.0000	.3	U						
URANIUM-235/236	PCI/L				13.9000	3	J	20.1000	13.6	-						
THORIUM-232	PCI/L				0.2000	.3	R	0.2000	.2	U						
RADIUM-228	PCI/L				3.0000	1.1	U	3.0000	1.2	U						
THORIUM-228	PCI/L				0.1000	.7	R	2.6000	2.6	-						
TECHNETIUM-99	PCI/L				69.3000	8.5	J	70.7000	10.3	-						
GROSS ALPHA	PCI/L				1020.0000	76.7	NV	825.0000	20.6	NV						
GROSS BETA	PCI/L				635.0000	46.9	NV	568.0000	10.2	NV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		U												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												

SAMPLE NUMBER:		118272		118274			118275			118276			118277		
LAB:		DATACHEM													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL ACETATE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118278	045155	045828	045829	045830
TASK:	50.03.23	3.7	3.7	3.7	3.7
LAB:	DATACHEM	WMCO	IT	IT	IT
WELL OR BORING NUMBER:	1242	1243	1243	1243	1243
DEPTH:	-	-	-	-	-
DATE COLLECTED:	15-MAY-93	01-JUN-89	25-OCT-89	25-OCT-89	03-FEB-90
NORTH COORDINATE:	480030.6	480039.47	480039.47	480039.47	480039.47
EAST COORDINATE:	1380507.21	1380558.22	1380558.22	1380558.22	1380558.22
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.1000		U	0.1000		U
INORGANICS																
ALUMINUM	MG/L	0.0327		U												
ANTIMONY	MG/L	0.0450		U												
ARSENIC	MG/L	0.0010		UJ												
BARIUM	MG/L	0.0758		-												
BERYLLIUM	MG/L	0.0013		U												
CADMIUM	MG/L	0.0030		U												
CALCIUM	MG/L	73.4000		-												
CHROMIUM	MG/L	0.0040		UJ												
COBALT	MG/L	0.0060		U												
COPPER	MG/L	0.0040		U												
CYANIDE	MG/L	0.0100		U												
IRON	MG/L	0.0274		U												
LEAD	MG/L	0.0018		U												
MAGNESIUM	MG/L	24.8000		-												
MANGANESE	MG/L	0.0957		-												
MERCURY	MG/L	0.0002		U												
NICKEL	MG/L	0.0190		U												
POTASSIUM	MG/L	0.7220		U												
SELENIUM	MG/L	0.0011		R												
SILVER	MG/L	0.0030		UJ												
SODIUM	MG/L	10.8000		-												
THALLIUM	MG/L	0.0010		U												
VANADIUM	MG/L	0.0040		U												
ZINC	MG/L	0.0171		U												

RADIONUCLIDES														
URANIUM-238	PCI/L			3.5000		NV								
06/21/94														

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 975

SAMPLE NUMBER:	118278			045155			045828			045829			045830		
LAB:				WMCO											
SUFFIX/FILTERFLAG:	-			NONE-UNF			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM, TOTAL	UG/L			10.5000		NV	14.0000	1	-						
URANIUM-234	PCI/L			2.5000		NV									
URANIUM-235	PCI/L			0.1600		NV									
URANIUM-236	PCI/L			0.0200		NV									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045127			045833			045834			045835			045390		
TASK:		3.7			3.7			3.7			3.7			3.7		
LAB:		WMCO			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1244			1244			1244			1244			1245		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		09-MAY-89			25-OCT-89			25-OCT-89			03-FEB-90			17-OCT-89		
NORTH COORDINATE:		480060.18			480060.18			480060.18			480060.18			479951.92		
EAST COORDINATE:		1380618.73			1380618.73			1380618.73			1380618.73			1380057.83		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	39.0000		NV				0.1000		U	0.1000		U			
NITRITE, AS NITROGEN	MG/L	14.0000		NV												
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	45.0000		NV	23.0000	3	-							92.0000	16	J

001485

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045391	045392	045393	045227	045228
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	WMCO	IT
WELL OR BORING NUMBER:	1245	1245	1245	1246	1246
DEPTH:	-	-	-	-	-
DATE COLLECTED:	17-OCT-89	26-AUG-90	26-AUG-90	11-AUG-89	25-OCT-89
NORTH COORDINATE:	479951.92	479951.92	479951.92	479886.27	479886.27
EAST COORDINATE:	1380057.83	1380057.83	1380057.83	1379873.45	1379873.45
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U				0.1000		U						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				54.9000	8.5	-				141.0000		NV	177.0000	18	-

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045839	045840	045841	120465	120465F
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	1246	1246	1246	1246	1246
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-OCT-89	18-JUN-90	19-JUN-90	22-JUL-93	22-JUL-93
NORTH COORDINATE:	479886.27	479886.27	479886.27	479886.27	479886.27
EAST COORDINATE:	1379873.45	1379873.45	1379873.45	1379873.45	1379873.45
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										370.0000		-			
AMMONIA	MG/L										0.1000		-			
CHLORIDE	MG/L										14.0000		-			
FLUORIDE	MG/L										0.3000		-			
NITRATE	MG/L	0.1000		U				0.4600		-						
NITRATE/NITRITE	MG/L										0.0900		J			
PHENOLS	MG/L										0.0020		UJ			
PHOSPHORUS	MG/L										2.2000		-			
SULFATE	MG/L										54.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL KJELDAHL NITROGEN	MG/L										1.3000		U			
TOTAL ORGANIC CARBON	MG/L										2.0000		J			
TOTAL ORGANIC HALIDES	MG/L										0.2300		J			
TOTAL ORGANIC NITROGEN	MG/L										1.2000		U			
INORGANICS																
ALUMINUM	MG/L				0.0700		-				33.0000		-	0.0398		U
ANTIMONY	MG/L				0.0300		U				0.0450		U	0.0450		U
ARSENIC	MG/L				0.0020		U				0.0023		-	0.0010		U
BARIUM	MG/L				0.0504		-				0.2410		-	0.0443		-
BERYLLIUM	MG/L				0.0020		U				0.0020		U	0.0010		U
CADMIUM	MG/L				0.0045		-				0.0030		U	0.0030		U
CALCIUM	MG/L				145.0000		-				593.0000		-	127.0000		-
CHROMIUM	MG/L				0.0340		-				0.0646		-	0.0091		-
COBALT	MG/L				0.0100		U				0.0406		-	0.0060		U
COPPER	MG/L				0.0100		U				0.1580		-	0.0040		U
CYANIDE	MG/L				0.0058		-				0.0100		U	0.0100		U
IRON	MG/L				0.0366		-				109.0000		-	0.1370		U
LEAD	MG/L				0.0020		J				0.0441		J	0.0013		UJ

001487

SAMPLE NUMBER:	045839	045840	045841	120465	120465F
LAB:		IT		DATACHEM	DATACHEM
SUFFIX/FILTERFLAG:	-	NONE-FIL	-	NONE-UNF	NONE-FIL

		045839 RESULT	SIGMA	VAL QUAL(1)	045840 RESULT	SIGMA	VAL QUAL(1)	045841 RESULT	SIGMA	VAL QUAL(1)	120465 RESULT	SIGMA	VAL QUAL(1)	120465F RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L				36.7000		-				274.0000		-	31.3000		-
MANGANESE	MG/L				0.1910		-				9.9200		-	0.1010		-
MERCURY	MG/L				0.0002		U				0.0002		U	0.0002		U
NICKEL	MG/L				0.0200		U				0.1280		J	0.0190		U
POTASSIUM	MG/L				0.4460		-				4.6800		-	0.6410		-
SELENIUM	MG/L				0.0020		UJ				0.0200		UJ	0.0020		U
SILVER	MG/L				0.0197		-				0.0034		J	0.0030		UJ
SODIUM	MG/L				11.7000		-				9.8700		-	9.0600		-
THALLIUM	MG/L				0.0022		J				0.0010		U	0.0010		U
VANADIUM	MG/L				0.0135		-				0.0817		-	0.0040		U
ZINC	MG/L				0.0050		U				0.3690		-	0.0060		U
PESTICIDES																
4,4'-DDD	UG/L				0.2000		UR									
4,4'-DDE	UG/L				0.2000		UR									
4,4'-DDT	UG/L				0.2000		UR									
ALDRIN	UG/L				0.1000		UR									
ALPHA-BHC	UG/L				0.1000		UR									
ALPHA-CHLORDANE	UG/L				1.0000		UR									
AROCLOR-1016	UG/L				1.0000		UR									
AROCLOR-1221	UG/L				1.0000		UR									
AROCLOR-1232	UG/L				1.0000		UR									
AROCLOR-1242	UG/L				1.0000		UR									
AROCLOR-1248	UG/L				1.0000		UR									
AROCLOR-1254	UG/L				2.0000		UR									
AROCLOR-1260	UG/L				2.0000		UR									
BETA-BHC	UG/L				0.1000		UR									
DELTA-BHC	UG/L				0.1000		UR									
DIELDRIN	UG/L				0.2000		UR									
ENDOSULFAN II	UG/L				0.2000		UR									
ENDOSULFAN SULFATE	UG/L				0.2000		UR									
ENDOSULFAN-I	UG/L				0.1000		UR									
ENDRIN	UG/L				0.2000		UR									
ENDRIN KETONE	UG/L				0.2000		UR									
GAMMA-BHC (LINDANE)	UG/L				0.1000		UR									
GAMMA-CHLORDANE	UG/L				1.0000		UR									
HEPTACHLOR	UG/L				0.1000		UR									
HEPTACHLOR EPOXIDE	UG/L				0.1000		UR									
METHOXYCHLOR	UG/L				1.0000		UR									
TOXAPHENE	UG/L				2.0000		UR									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									

001488

5704

SAMPLE NUMBER:	045839	045840	045841	120465	120465F
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				50.0000		U									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		UJ									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		UJ									
2-METHYLPHENOL	UG/L				10.0000		UJ									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UJ									
3-NITROANILINE	UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UJ									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									
4-NITROANILINE	UG/L				50.0000		U									
4-NITROPHENOL	UG/L				50.0000		U									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		UJ									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		UJ									
BENZYL ALCOHOL	UG/L				10.0000		UJ									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		UJ									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		UJ									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UJ									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ									
DIBENZOFURAN	UG/L				10.0000		U									

001489

SAMPLE NUMBER:		045839			045840			045841			120465			120465F		
LAB:					IT						DATACHEM					
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
DIBROMOCHLOROMETHANE	UG/L				5.0000		U				10.0000		U			
ETHYLBENZENE	UG/L				5.0000		UJ				10.0000		U			
METHYLENE CHLORIDE	UG/L				5.0000		U				10.0000		U			
STYRENE	UG/L				5.0000		UJ				10.0000		U			
TETRACHLOROETHENE	UG/L				29.0000		-				22.0000		-			
TOLUENE	UG/L				5.0000		UJ				10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				10.0000		U			
TRICHLOROETHENE	UG/L				29.0000		-				33.0000		-			
VINYL ACETATE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U				10.0000		U			
XYLENES, TOTAL	UG/L				5.0000		UJ				10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120466	120466F	120467	120467F	120468
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	DATACHEM	DATACHEM	CORE	CORE	CORE
WELL OR BORING NUMBER:	1246	1246	1246	1246	1246
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-JUL-93	22-JUL-93	22-JUL-93	22-JUL-93	22-JUL-93
NORTH COORDINATE:	479886.27	479886.27	479886.27	479886.27	479886.27
EAST COORDINATE:	1379873.45	1379873.45	1379873.45	1379873.45	1379873.45
QA TYPE:	DUPLICATE	DUPLICATE	NORMAL	NORMAL	DUPLICATE
QC OF:	120465	120465			120467
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	380.0000		-												
AMMONIA	MG/L	0.0500		U												
CHLORIDE	MG/L	14.0000		-												
FLUORIDE	MG/L	0.3000		-												
NITRATE/NITRITE	MG/L	0.0600		J												
PHENOLS	MG/L	0.0020		UJ												
PHOSPHORUS	MG/L	2.1000		-												
SULFATE	MG/L	53.0000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL KJELDAHL NITROGEN	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	3.0000		J												
TOTAL ORGANIC HALIDES	MG/L	0.1900		J												
TOTAL ORGANIC NITROGEN	MG/L	1.0000		U												
INORGANICS																
ALUMINUM	MG/L	26.5000		-	0.0493		U									
ANTIMONY	MG/L	0.0450		U	0.0450		U									
ARSENIC	MG/L	0.0032		-	0.0010		U									
BARIUM	MG/L	0.1890		-	0.0430		-									
BERYLLIUM	MG/L	0.0017		U	0.0010		U									
CADMIUM	MG/L	0.0030		U	0.0030		U									
CALCIUM	MG/L	538.0000		-	130.0000		-									
CHROMIUM	MG/L	0.0428		-	0.0072		U									
COBALT	MG/L	0.0234		-	0.0060		U									
COPPER	MG/L	0.0724		-	0.0040		U									
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L	67.3000		-	0.1460		U									
LEAD	MG/L	0.0284		J	0.0012		UJ									
MAGNESIUM	MG/L	242.0000		-	31.8000		-									

SAMPLE NUMBER:		120466		120466F		120467			120467F			120468		
LAB:		DATACHEM		DATACHEM										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS														
MANGANESE	MG/L	5.2300	-	0.0886	-									
MERCURY	MG/L	0.0002	U	0.0002	U									
NICKEL	MG/L	0.0738	U	0.0190	U									
POTASSIUM	MG/L	5.7700	-	0.8070	-									
SELENIUM	MG/L	0.0200	U	0.0020	UJ									
SILVER	MG/L	0.0035	J	0.0030	UJ									
SODIUM	MG/L	9.8100	-	9.0400	-									
THALLIUM	MG/L	0.0010	U	0.0010	U									
VANADIUM	MG/L	0.0621	-	0.0040	U									
ZINC	MG/L	0.1920	-	0.0080	U									
RADIONUCLIDES														
URANIUM-238	PCI/L					44.3000	4.8	-	41.9000	4.5	J	2.1000	.5	-
URANIUM, TOTAL	UG/L					103.0000	7.2	-	116.0000	8.1	-	95.1000	6.7	-
URANIUM-234	PCI/L					42.6000	5.6	-	44.0000	4.7	J	2.3000	.5	-
THORIUM-230	PCI/L					0.4000	.2	R	0.2000	.2	UJ	0.4000	.2	U
RADIUM-226	PCI/L					4.3000	.6	J	1.0000	.2	UJ	2.1000	.4	J
URANIUM-235/236	PCI/L					4.4000	.9	-	2.1000	.5	J	0.2000	.1	U
THORIUM-232	PCI/L					0.3000	.3	R	0.2000	.1	UJ	0.2000	.3	U
RADIUM-228	PCI/L					3.0000	1.1	U	3.0000	.9	UJ	3.0000	1.4	U
THORIUM-228	PCI/L					0.2000	.2	R	0.2000	.2	UJ	0.2000	.2	U
TECHNETIUM-99	PCI/L					15.0000	7.6	U				15.0000	7	U
VOLATILES														
1,1,1-TRICHLOROETHANE	UG/L	38.0000	-											
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000	U											
1,1,2-TRICHLOROETHANE	UG/L	10.0000	U											
1,1-DICHLOROETHANE	UG/L	100.0000	-											
1,1-DICHLOROETHENE	UG/L	4.0000	J											
1,2-DICHLOROETHANE	UG/L	10.0000	U											
1,2-DICHLOROETHENE (TOTAL)	UG/L	68.0000	-											
1,2-DICHLOROPROPANE	UG/L	10.0000	U											
2-BUTANONE	UG/L	10.0000	U											
2-HEXANONE	UG/L	10.0000	U											
4-METHYL-2-PENTANONE	UG/L	10.0000	U											
ACETONE	UG/L	10.0000	U											
BENZENE	UG/L	10.0000	U											
BROMODICHLOROMETHANE	UG/L	10.0000	U											
BROMOFORM	UG/L	10.0000	U											
BROMOMETHANE	UG/L	10.0000	U											
CARBON DISULFIDE	UG/L	10.0000	U											
CARBON TETRACHLORIDE	UG/L	10.0000	U											
CHLOROBENZENE	UG/L	10.0000	U											

004492

8704

SAMPLE NUMBER:		120466		120466F			120467			120467F			120468		
LAB:		DATACHEM													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	49.0000		-												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	53.0000		-												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120468F			120475			120475F			120476			120476F		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		CORE			FERMCO			FERMCO			FERMCO			FERMCO		
WELL OR BORING NUMBER:		1246			1246			1246			1246			1246		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		22-JUL-93			22-JUL-93			22-JUL-93			22-JUL-93			22-JUL-93		
NORTH COORDINATE:		479886.27			479886.27			479886.27			479886.27			479886.27		
EAST COORDINATE:		1379873.45			1379873.45			1379873.45			1379873.45			1379873.45		
QA TYPE:		DUPLICATE			NORMAL			NORMAL			DUPLICATE			DUPLICATE		
QC OF:		120467F									120475			120475F		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	39.9000	4.6	J												
URANIUM, TOTAL	UG/L	110.0000	8.7	-	160.0000		NV	130.0000		NV	150.0000		NV	120.0000		NV
URANIUM-234	PCI/L	45.7000	5.1	J												
THORIUM-230	PCI/L	0.2000	.2	UJ												
RADIUM-226	PCI/L	1.0000	.2	UJ												
URANIUM-235/236	PCI/L	2.7000	.6	J												
THORIUM-232	PCI/L	0.2000	.1	UJ												
RADIUM-228	PCI/L	3.0000	.8	UJ												
THORIUM-228	PCI/L	0.2000	.2	UJ												
TECHNETIUM-99	PCI/L	15.0000	7	UJ												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	047001	046834	046835	046836	046837
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1247	1250	1250	1250	1250
DEPTH:	-	-	-	-	-
DATE COLLECTED:	20-DEC-91	22-JAN-90	15-JUN-90	15-JUN-90	18-JUN-90
NORTH COORDINATE:	479914.24	479809.04	479809.04	479809.04	479809.04
EAST COORDINATE:	1379929.82	1379858.62	1379858.62	1379858.62	1379858.62
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	14.9000		-	0.3000		-				0.5500		-			
INORGANICS																
ALUMINUM	MG/L													0.0728		-
ANTIMONY	MG/L													0.0300		U
ARSENIC	MG/L													0.0020		U
BARIUM	MG/L													0.0641		-
BERYLLIUM	MG/L													0.0020		U
CADMIUM	MG/L													0.0055		-
CALCIUM	MG/L													154.0000		-
CHROMIUM	MG/L													0.0367		-
COBALT	MG/L													0.0100		U
COPPER	MG/L													0.0109		-
CYANIDE	MG/L													0.0020		U
IRON	MG/L													0.0455		-
LEAD	MG/L													0.0020		U
MAGNESIUM	MG/L													38.5000		-
MANGANESE	MG/L													0.0736		-
MERCURY	MG/L													0.0005		-
NICKEL	MG/L													0.0200		U
POTASSIUM	MG/L													1.8900		-
SELENIUM	MG/L													0.0023		J
SILVER	MG/L													0.0210		-
SODIUM	MG/L													12.5000		-
THALLIUM	MG/L													0.0020		U
VANADIUM	MG/L													0.0143		-
ZINC	MG/L													0.0050		U

PESTICIDES

4,4'-DDD UG/L 0.1000 U

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		047001			046834			046835			046836			046837	
LAB:														IT	
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.1000		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.1000		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				833.0000	143	-	427.0000	89	J						
THORIUM, TOTAL	UG/L	6.7000		U												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		UJ
1,2-DICHLOROBENZENE	UG/L													10.0000		UR
1,3-DICHLOROBENZENE	UG/L													10.0000		UJ
1,4-DICHLOROBENZENE	UG/L													10.0000		UJ
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		UJ
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		UJ
2,4-DICHLOROPHENOL	UG/L													10.0000		UJ

001496

SAMPLE NUMBER:	047001	046834	046835	046836	046837
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		047001 RESULT	SIGMA	VAL QUAL(1)	046834 RESULT	SIGMA	VAL QUAL(1)	046835 RESULT	SIGMA	VAL QUAL(1)	046836 RESULT	SIGMA	VAL QUAL(1)	046837 RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DIMETHYLPHENOL	UG/L													10.0000		UJ
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		UJ
2,6-DINITROTOLUENE	UG/L													10.0000		UJ
2-CHLORONAPHTHALENE	UG/L													10.0000		UJ
2-CHLOROPHENOL	UG/L													10.0000		UJ
2-METHYLNAPHTHALENE	UG/L													10.0000		UJ
2-METHYLPHENOL	UG/L													10.0000		UJ
2-NITROANILINE	UG/L													50.0000		UJ
2-NITROPHENOL	UG/L													10.0000		UJ
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		UJ
3-NITROANILINE	UG/L													50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		UJ
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		UJ
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		UJ
4-METHYLPHENOL	UG/L													10.0000		UJ
4-NITROANILINE	UG/L													50.0000		UJ
4-NITROPHENOL	UG/L													50.0000		UJ
ACENAPHTHENE	UG/L													10.0000		UJ
ACENAPHTHYLENE	UG/L													10.0000		UJ
ANTHRACENE	UG/L													10.0000		UJ
BENZO(A)ANTHRACENE	UG/L													10.0000		UJ
BENZO(A)PYRENE	UG/L													10.0000		UJ
BENZO(B)FLUORANTHENE	UG/L													10.0000		UJ
BENZO(G,H,I)PERYLENE	UG/L													10.0000		UJ
BENZO(K)FLUORANTHENE	UG/L													10.0000		UJ
BENZOIC ACID	UG/L													50.0000		UJ
BENZYL ALCOHOL	UG/L													10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		UR
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		UJ
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		UR
BUTYL BENZYL PHTHALATE	UG/L													10.0000		UJ
CHRYSENE	UG/L													10.0000		UJ
DI-N-BUTYL PHTHALATE	UG/L													10.0000		UJ
DI-N-OCTYL PHTHALATE	UG/L													10.0000		UJ
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		UJ
DIBENZOFURAN	UG/L													10.0000		UJ
DIETHYL PHTHALATE	UG/L													10.0000		UJ
DIMETHYL PHTHALATE	UG/L													10.0000		UJ
FLUORANTHENE	UG/L													10.0000		UJ
FLUORENE	UG/L													10.0000		UJ
HEXACHLOROBENZENE	UG/L													10.0000		UJ
HEXACHLOROBUTADIENE	UG/L													10.0000		UJ

001497

SAMPLE NUMBER:	047001			046834			046835			046836			046837		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		UJ
HEXACHLOROETHANE UG/L													10.0000		UR
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		UR
ISOPHORONE UG/L													10.0000		UJ
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		UR
N-NITROSODIPHENYLAMINE UG/L													10.0000		UR
NAPHTHALENE UG/L													10.0000		UR
NITROBENZENE UG/L													10.0000		UR
P-CHLOROANILINE UG/L													10.0000		UJ
PENTACHLOROPHENOL UG/L													50.0000		UR
PHENANTHRENE UG/L													10.0000		UJ
PHENOL MG/L													10.0000		UJ
PYRENE UG/L													10.0000		UR
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L													12.0000		-
1,1,2,2-TETRACHLOROETHANE UG/L													5.0000		U
1,1,2-TRICHLOROETHANE UG/L													5.0000		U
1,1-DICHLOROETHANE UG/L													5.0000		U
1,1-DICHLOROETHENE UG/L													5.0000		U
1,2-DICHLOROETHANE UG/L													5.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L													2.0000		J
1,2-DICHLOROPROPANE UG/L													5.0000		U
2-BUTANONE UG/L													10.0000		UJ
2-HEXANONE UG/L													10.0000		U
4-METHYL-2-PENTANONE UG/L													10.0000		U
ACETONE UG/L													10.0000		UJ
BENZENE UG/L													5.0000		UJ
BROMODICHLOROMETHANE UG/L													5.0000		U
BROMOFORM UG/L													5.0000		U
BROMOMETHANE UG/L													10.0000		U
CARBON DISULFIDE UG/L													5.0000		U
CARBON TETRACHLORIDE UG/L													5.0000		U
CHLOROBENZENE UG/L													5.0000		UJ
CHLOROETHANE UG/L													10.0000		U
CHLOROFORM UG/L													5.0000		U
CHLOROMETHANE UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE UG/L													5.0000		U
DIBROMOCHLOROMETHANE UG/L													5.0000		U
ETHYLBENZENE UG/L													5.0000		UJ
METHYLENE CHLORIDE UG/L													5.0000		U
STYRENE UG/L													5.0000		UJ
TETRACHLOROETHENE UG/L													6.0000		-
TOLUENE UG/L													5.0000		UJ

SAMPLE NUMBER:	047001			046834			046835			046836			046837		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRANS-1,3-DICHLOROPROPENE UG/L													5.0000		U
TRICHLOROETHENE UG/L													5.0000		-
VINYL ACETATE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		U
XYLENES, TOTAL UG/L													5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046838	047002	046722	046723	046724
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1250	1251	1253	1253	1253
DEPTH:	-	-	-	-	-
DATE COLLECTED:	19-JUN-90	20-DEC-91	16-JAN-90	15-JUN-90	15-JUN-90
NORTH COORDINATE:	479809.04	479870.6	479809.06	479809.06	479809.06
EAST COORDINATE:	1379858.62	1379933.54	1379885.99	1379885.99	1379885.99
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	1.6000		-	1.0100		-	0.1000		U				0.1000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				4400.0000	500	-	47.1000	8.3	-	28.8000	5	J			
THORIUM, TOTAL	UG/L				0.7000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045386	045387	045388	045389	118215
TASK:	3.7	3.7	3.7	3.7	50.03.23
LAB:	IT	IT	IT	IT	LOCKHEED
WELL OR BORING NUMBER:	1255	1255	1255	1255	1255
DEPTH:	-	-	-	-	-
DATE COLLECTED:	18-OCT-89	18-OCT-89	26-AUG-90	26-AUG-90	13-MAY-93
NORTH COORDINATE:	479801.6	479801.6	479801.6	479801.6	479801.6
EAST COORDINATE:	1380248.75	1380248.75	1380248.75	1380248.75	1380248.75
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L													0.1300		NV
FLUORIDE	MG/L													0.9300		NV
NITRATE	MG/L				0.1000		U				0.1000		U			
NITRATE/NITRITE	MG/L													0.0500		UNV
PHENOLS	MG/L													0.1500		UNV
PHOSPHORUS	MG/L													0.5700		NV
TOTAL ORGANIC CARBON	MG/L													10.0000		UNV
TOTAL ORGANIC HALIDES	MG/L													0.0510		NV
INORGANICS																
ALUMINUM	MG/L													13.5000		NV
ANTIMONY	MG/L													0.0270		UNV
ARSENIC	MG/L													0.0071		NV
BARIUM	MG/L													0.2320		NV
BERYLLIUM	MG/L													0.0024		NV
CADMIUM	MG/L													0.0020		UNV
CALCIUM	MG/L													673.0000		NV
CHROMIUM	MG/L													0.0157		NV
COBALT	MG/L													0.0102		NV
COPPER	MG/L													0.0406		NV
CYANIDE	MG/L													0.0200		UNV
IRON	MG/L													32.6000		NV
LEAD	MG/L													0.0142		NV
MAGNESIUM	MG/L													220.0000		NV
MANGANESE	MG/L													3.0400		NV
MERCURY	MG/L													0.0002		UNV
MOLYBDENUM	MG/L													0.0148		NV
NICKEL	MG/L													0.0334		NV
POTASSIUM	MG/L													6.6300		NV

001501

SAMPLE NUMBER:		045386			045387			045388			045389			118215		
LAB:														LOCKHEED		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SELENIUM	MG/L													0.0010		UNV
SILVER	MG/L													0.0040		UNV
SODIUM	MG/L													165.0000		NV
THALLIUM	MG/L													0.0030		UNV
VANADIUM	MG/L													0.0182		NV
ZINC	MG/L													0.1370		NV
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	391.000B7		-				1610.0000	240	-						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L													10.0000		UNV
1,1-DICHLOROETHANE	UG/L													5.0000		NV
1,1-DICHLOROETHENE	UG/L													4.0000		NV
1,2-DICHLOROETHANE	UG/L													10.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		UNV
1,2-DICHLOROPROPANE	UG/L													10.0000		UNV
2-BUTANONE	UG/L													10.0000		UNV
2-HEXANONE	UG/L													10.0000		UNV
4-METHYL-2-PENTANONE	UG/L													10.0000		UNV
ACETONE	UG/L													10.0000		UNV
BENZENE	UG/L													10.0000		UNV
BROMODICHLOROMETHANE	UG/L													10.0000		UNV
BROMOFORM	UG/L													10.0000		UNV
BROMOMETHANE	UG/L													10.0000		UNV
CARBON DISULFIDE	UG/L													10.0000		UNV
CARBON TETRACHLORIDE	UG/L													10.0000		UNV
CHLOROBENZENE	UG/L													10.0000		UNV
CHLOROETHANE	UG/L													10.0000		UNV
CHLOROFORM	UG/L													10.0000		UNV
CHLOROMETHANE	UG/L													10.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		UNV
DIBROMOCHLOROMETHANE	UG/L													10.0000		UNV
ETHYLBENZENE	UG/L													10.0000		UNV
METHYLENE CHLORIDE	UG/L													10.0000		UNV
STYRENE	UG/L													10.0000		UNV
TETRACHLOROETHENE	UG/L													10.0000		UNV
TOLUENE	UG/L													10.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		UNV
TRICHLOROETHENE	UG/L													10.0000		UNV
VINYL CHLORIDE	UG/L													10.0000		UNV

SAMPLE NUMBER:	045386			045387		045388			045389			118215		
LAB:												LOCKHEED		
SUFFIX/FILTERFLAG:	-			-		-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
XYLENES, TOTAL UG/L													10.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118216			118218			118219			118220			118221	
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23	
LAB:		LOCKHEED			FERMCO			FERMCO			CORE			CORE	
WELL OR BORING NUMBER:		1255			1255			1255			1255			1255	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		13-MAY-93			13-MAY-93			13-MAY-93			13-MAY-93			13-MAY-93	
NORTH COORDINATE:		479801.6			479801.6			479801.6			479801.6			479801.6	
EAST COORDINATE:		1380248.75			1380248.75			1380248.75			1380248.75			1380248.75	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	0.0240		UNV												
ANTIMONY	MG/L	0.0270		UNV												
ARSENIC	MG/L	0.0059		NV												
BARIUM	MG/L	0.1180		NV												
BERYLLIUM	MG/L	0.0010		UNV												
CADMIUM	MG/L	0.0020		UNV												
CALCIUM	MG/L	140.0000		NV												
CHROMIUM	MG/L	0.0040		UNV												
COBALT	MG/L	0.0050		UNV												
COPPER	MG/L	0.0030		UNV												
IRON	MG/L	0.1730		NV												
LEAD	MG/L	0.0020		UNV												
MAGNESIUM	MG/L	68.4000		NV												
MANGANESE	MG/L	0.1860		NV												
MERCURY	MG/L	0.0002		UNV												
MOLYBDENUM	MG/L	0.0110		UNV												
NICKEL	MG/L	0.0110		UNV												
POTASSIUM	MG/L	1.5500		NV												
SELENIUM	MG/L	0.0010		UNV												
SILVER	MG/L	0.0040		UNV												
SODIUM	MG/L	153.0000		NV												
THALLIUM	MG/L	0.0030		UNV												
VANADIUM	MG/L	0.0040		UNV												
ZINC	MG/L	0.0075		NV												
RADIONUCLIDES																
URANIUM-238	PCI/L										172.0000	21.6	J	174.0000	24.6	R
URANIUM, TOTAL	UG/L				810.0000		NV	500.0000		NV	459.0000	32.1	J	765.0000	53.5	J
URANIUM-234	PCI/L										253.0000	30.7	J	240.0000	32.5	R

001504

520704

SAMPLE NUMBER:	118216			118218			118219			118220 CORE NONE-UNF			118221 CORE NONE-FIL		
LAB:															
SUFFIX/FILTERFLAG:	-			-			-								
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM-230 PCI/L										0.2000	.3	UJ	0.2000	.2	UJ
RADIUM-226 PCI/L										1.0000	.6	UJ	1.0000	.6	UJ
URANIUM-235/236 PCI/L										17.1000	3.7	J	9.8000	3.4	R
THORIUM-232 PCI/L										0.3000	.2	UJ	0.2000	.2	UJ
THORIUM, TOTAL UG/L										2.7360	.2	NV			
RADIUM-228 PCI/L										3.0000	1.2	UJ	3.3000	1.3	J
THORIUM-228 PCI/L										0.2000	.2	UJ	0.2000	.2	UJ
GROSS ALPHA PCI/L										343.0000	23.5	NV	196.0000	15.5	NV
GROSS BETA PCI/L										258.0000	13.2	NV	197.0000	9.6	NV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046995	046996	045225	045226	045853
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	WMCO	IT	IT
WELL OR BORING NUMBER:	1259	1259	1262	1262	1262
DEPTH:	-	-	-	-	-
DATE COLLECTED:	07-JAN-91	07-JAN-91	16-JUL-89	25-OCT-89	25-OCT-89
NORTH COORDINATE:	479741.4	479741.4	479862.46	479862.46	479862.46
EAST COORDINATE:	1379978.37	1379978.37	1380221.69	1380221.69	1380221.69
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				2.0500		-							0.1000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	25700.0000		NV				72.3000		NV	72.0000	7	-			

001506

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045854	045342	045343	045858	045859
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1262	1263	1263	1263	1263
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-AUG-90	03-OCT-89	03-OCT-89	25-AUG-90	25-AUG-90
NORTH COORDINATE:	479862.46	479800.99	479800.99	479800.99	479800.99
EAST COORDINATE:	1380221.69	1380200.65	1380200.65	1380200.65	1380200.65
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U	1.2300		-				2.9100		J			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L							73.0000	10	-				29.2000	5.9	-

001507

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045233	045234	045865	045866	045867
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	IT
WELL OR BORING NUMBER:	1266	1266	1266	1266	1266
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-JUL-89	25-AUG-90	25-OCT-89	25-OCT-89	25-AUG-90
NORTH COORDINATE:	479713.63	479713.63	479713.63	479713.63	479713.63
EAST COORDINATE:	1380213.49	1380213.49	1380213.49	1380213.49	1380213.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		U				0.1200		-			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	0.7000		NV				11.0000	1	-				4.6000	.48	-

001508

5204

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045240	045869	045870	118296	118297
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	DATACHEM	DATACHEM
WELL OR BORING NUMBER:	1267	1267	1267	1267	1267
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-OCT-89	25-OCT-89	15-JUN-90	16-MAY-93	16-MAY-93
NORTH COORDINATE:	479607.63	479607.63	479607.63	479607.63	479607.63
EAST COORDINATE:	1379898.88	1379898.88	1379898.88	1379898.88	1379898.88
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										0.0600		-			
NITRATE	MG/L				0.8500		-	0.6300		-						
NITRATE/NITRITE	MG/L										1.1000		-			
PHENOLS	MG/L										0.0200		U			
PHOSPHORUS	MG/L										5.5000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										1.0000		U			
TOTAL ORGANIC HALIDES	MG/L										0.0100		U			
INORGANICS																
ALUMINUM	MG/L										122.0000		J	0.1240		U
ANTIMONY	MG/L										0.2250		UJ	0.0450		U
ARSENIC	MG/L										0.0028		UJ	0.0012		UJ
BARIUM	MG/L										0.8700		J	0.0767		-
BERYLLIUM	MG/L										0.0059		UJ	0.0010		U
CADMIUM	MG/L										0.0236		J	0.0030		U
CALCIUM	MG/L										1760.0000		J	134.0000		-
CHROMIUM	MG/L										0.1440		J	0.0040		UJ
COBALT	MG/L										0.1210		J	0.0060		U
COPPER	MG/L										0.2750		J	0.0040		U
CYANIDE	MG/L										0.0100		U	0.0100		U
IRON	MG/L										300.0000		J	0.2400		U
LEAD	MG/L										0.0742		J	0.0022		UJ
MAGNESIUM	MG/L										642.0000		J	38.2000		-
MANGANESE	MG/L										6.1000		J	0.1270		-
MERCURY	MG/L										0.0002		UJ	0.0002		U
NICKEL	MG/L										0.3330		J	0.0251		U
POTASSIUM	MG/L										20.4000		J	0.4320		U
SELENIUM	MG/L										0.0100		R	0.0018		R

001509

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1003

SAMPLE NUMBER:	045240			045869			045870			118296 DATACHEM NONE-UNF			118297 DATACHEM NONE-FIL		
LAB:															
SUFFIX/FILTER FLAG:	-			-			-								
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
SILVER MG/L										0.0150		UJ	0.0030		UJ
SODIUM MG/L										13.7000		J	12.4000		-
THALLIUM MG/L										0.0010		UJ	0.0010		U
VANADIUM MG/L										0.2680		J	0.0076		U
ZINC MG/L										0.8540		J	0.0131		U
RADIONUCLIDES															
URANIUM, TOTAL UG/L	86.00009		-												
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE UG/L										10.0000		U			
1,1-DICHLOROETHANE UG/L										10.0000		U			
1,1-DICHLOROETHENE UG/L										10.0000		U			
1,2-DICHLOROETHANE UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL) UG/L										10.0000		U			
1,2-DICHLOROPROPANE UG/L										10.0000		U			
2-BUTANONE UG/L										10.0000		U			
2-HEXANONE UG/L										10.0000		U			
4-METHYL-2-PENTANONE UG/L										10.0000		U			
ACETONE UG/L										10.0000		UJ			
BENZENE UG/L										10.0000		U			
BROMODICHLOROMETHANE UG/L										10.0000		U			
BROMOFORM UG/L										10.0000		U			
BROMOMETHANE UG/L										10.0000		U			
CARBON DISULFIDE UG/L										10.0000		U			
CARBON TETRACHLORIDE UG/L										10.0000		U			
CHLOROBENZENE UG/L										10.0000		U			
CHLOROETHANE UG/L										10.0000		U			
CHLOROFORM UG/L										10.0000		U			
CHLOROMETHANE UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
DIBROMOCHLOROMETHANE UG/L										10.0000		U			
ETHYLBENZENE UG/L										10.0000		U			
METHYLENE CHLORIDE UG/L										10.0000		U			
STYRENE UG/L										10.0000		U			
TETRACHLOROETHENE UG/L										10.0000		U			
TOLUENE UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
TRICHLOROETHENE UG/L										10.0000		U			
VINYL ACETATE UG/L										10.0000		U			
VINYL CHLORIDE UG/L										10.0000		U			

001540

0204

SAMPLE NUMBER:	045240	045869	045870	118296	118297
LAB:				DATACHEM	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118299			118300			118302			118303			045344		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			3.7		
LAB:		CORE			CORE			FERMCO			FERMCO			IT		
WELL OR BORING NUMBER:		1267			1267			1267			1267			1268		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		16-MAY-93			16-MAY-93			16-MAY-93			16-MAY-93			05-OCT-89		
NORTH COORDINATE:		479607.63			479607.63			479607.63			479607.63			479623.49		
EAST COORDINATE:		1379898.88			1379898.88			1379898.88			1379898.88			1380008.32		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L	18.6000	2.2	J	24.5000	2.8	J									
URANIUM, TOTAL	UG/L	56.0000	3.9	J	64.7000	4.5	-	58.0000		NV	21.0000		NV	68.0000	7	-
URANIUM-234	PCI/L	36.1000	4	J	44.2000	4.9	J									
THORIUM-230	PCI/L	0.2000	.2	UJ	0.3000	.3	R									
RADIUM-226	PCI/L	1.0000	.5	UJ	2.3000	.6	-									
URANIUM-235/236	PCI/L	1.2000	.5	J	1.5000	.4	J									
THORIUM-232	PCI/L	0.2000	.2	UJ	0.3000	.3	R									
RADIUM-228	PCI/L	3.0000	1.2	UJ	3.2000	1.8	U									
THORIUM-228	PCI/L	0.2000	.2	UJ	0.4000	.2	R									
TECHNETIUM-99	PCI/L				15.0000	7	UJ									
GROSS ALPHA	PCI/L	39.2000	5.5	NV	54.5000	31.7	UNV									
GROSS BETA	PCI/L	25.8000	3.6	NV	39.0000	23.8	UNV									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045345			045346			045873			045229			045230		
TASK:		3.7			3.7			3.7			3.7			3.7		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1268			1268			1268			1269			1269		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		05-OCT-89			15-JUN-90			15-JUN-90			05-OCT-89			05-OCT-89		
NORTH COORDINATE:		479623.49			479623.49			479623.49			479572.5			479572.5		
EAST COORDINATE:		1380008.32			1380008.32			1380008.32			1380249.77			1380249.77		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U				0.1000		U				0.1000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				34.9000	6.2	J				13.0000	2	-			

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1008

SAMPLE NUMBER:	045876			045877			118181			118182			118183		
LAB:													LOCKHEED		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
POTASSIUM MG/L													7.7200		-
SELENIUM MG/L													0.0011		J
SILVER MG/L													0.0040		U
SODIUM MG/L													4.5100		-
THALLIUM MG/L													0.0030		U
VANADIUM MG/L													0.0251		-
ZINC MG/L													0.1350		-
RADIONUCLIDES															
URANIUM, TOTAL UG/L	15.4000	3.4	-				36.0000		NV	25.0000		NV			

001514

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118184			118185			118186			045231			118288		
TASK:		50.03.23			50.03.23			50.03.23			3.7			50.03.23		
LAB:		LOCKHEED			CORE			CORE			IT			DATACHEM		
WELL OR BORING NUMBER:		1269			1269			1269			1270			1270		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		11-MAY-93			11-MAY-93			11-MAY-93			22-JAN-90			16-MAY-93		
NORTH COORDINATE:		479572.5			479572.5			479572.5			479572.21			479572.21		
EAST COORDINATE:		1380249.77			1380249.77			1380249.77			1380466.33			1380466.33		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L													0.0500		U
NITRATE	MG/L										0.2400		-			
NITRATE/NITRITE	MG/L													7.8000		-
PHENOLS	MG/L													0.0200		U
PHOSPHORUS	MG/L													4.4000		-
SULFIDE	MG/L													1.0000		U
TOTAL ORGANIC CARBON	MG/L													1.0000		U
TOTAL ORGANIC HALIDES	MG/L													0.0100		U
INORGANICS																
ALUMINUM	MG/L	0.0240		UJ										47.5000		-
ANTIMONY	MG/L	0.0270		UJ										0.0450		U
ARSENIC	MG/L	0.0020		U										0.0042		UJ
BARIUM	MG/L	0.0675		-										0.4560		-
BERYLLIUM	MG/L	0.0010		U										0.0024		U
CADMIUM	MG/L	0.0020		U										0.0030		U
CALCIUM	MG/L	115.0000		-										628.0000		-
CHROMIUM	MG/L	0.0040		U										0.0727		-
COBALT	MG/L	0.0050		U										0.0446		-
COPPER	MG/L	0.0030		U										0.1070		-
CYANIDE	MG/L	0.0200		U										0.0100		U
IRON	MG/L	0.0050		U										106.0000		-
LEAD	MG/L	0.0020		UJ										0.0448		J
MAGNESIUM	MG/L	52.1000		-										265.0000		-
MANGANESE	MG/L	0.0266		-										2.3600		-
MERCURY	MG/L	0.0002		U										0.0002		U
MOLYBDENUM	MG/L	0.0110		U												
NICKEL	MG/L	0.0110		U										0.0770		U
POTASSIUM	MG/L	1.0000		U										11.4000		-

001515

SAMPLE NUMBER:	118184			118185			118186			045231			118288		
LAB:	LOCKHEED												DATACHEM		
SUFFIX/FILTERFLAG:	NONE-FIL			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SELENIUM	MG/L	0.0010		UJ										0.0100		UR
SILVER	MG/L	0.0040		U										0.0030		UJ
SODIUM	MG/L	4.4900		-										6.5300		-
THALLIUM	MG/L	0.0030		U										0.0010		U
VANADIUM	MG/L	0.0040		U										0.1090		-
ZINC	MG/L	0.0030		U										0.3240		-
RADIONUCLIDES																
URANIUM-238	PCI/L				9.2000	1.1	J	7.2000	.9	J						
URANIUM, TOTAL	UG/L				24.9000	1.7	-	21.3000	1.5	-	11.9000	1.3	J			
URANIUM-234	PCI/L				9.0000	1.1	J	7.7000	1	J						
THORIUM-230	PCI/L				1.1000	.4	J	0.2000	.2	UJ						
RADIUM-226	PCI/L				1.8000	.6	-	1.1000	.6	U						
URANIUM-235/236	PCI/L				0.6000	.3	J	0.3000	.3	J						
THORIUM-232	PCI/L				0.7000	.3	J	0.2000	.2	UJ						
THORIUM, TOTAL	UG/L				6.3841	.3	NV	0.9120	.2	NV						
RADIUM-228	PCI/L				3.0000	1.4	U	3.0000	1.5	U						
THORIUM-228	PCI/L				0.5000	.3	J	0.3000	.1	UJ						
TECHNETIUM-99	PCI/L				15.0000	6.4	UJ	15.0000	6.2	UJ						
GROSS ALPHA	PCI/L				30.2000	7.7	NV	16.5000	4.6	NV						
GROSS BETA	PCI/L				18.9000	8.8	NV	31.6000	4.3	NV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		UJ
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		U
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U

001516

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118289	118291	118292	118294	118295
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	DATACHEM	CORE	CORE	FERMCO	FERMCO
WELL OR BORING NUMBER:	1270	1270	1270	1270	1270
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-MAY-93	16-MAY-93	16-MAY-93	16-MAY-93	16-MAY-93
NORTH COORDINATE:	479572.21	479572.21	479572.21	479572.21	479572.21
EAST COORDINATE:	1380466.33	1380466.33	1380466.33	1380466.33	1380466.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	1.1700		-												
ANTIMONY	MG/L	0.0450		U												
ARSENIC	MG/L	0.0018		UJ												
BARIUM	MG/L	0.2280		-												
BERYLLIUM	MG/L	0.0013		U												
CADMIUM	MG/L	0.0030		U												
CALCIUM	MG/L	329.0000		-												
CHROMIUM	MG/L	0.0040		UJ												
COBALT	MG/L	0.0078		-												
COPPER	MG/L	0.0057		U												
CYANIDE	MG/L	0.0100		U												
IRON	MG/L	1.4500		-												
LEAD	MG/L	0.0069		U												
MAGNESIUM	MG/L	79.8000		-												
MANGANESE	MG/L	0.8160		-												
MERCURY	MG/L	0.0002		U												
NICKEL	MG/L	0.0384		U												
POTASSIUM	MG/L	0.4320		U												
SELENIUM	MG/L	0.0100		UR												
SILVER	MG/L	0.0030		UJ												
SODIUM	MG/L	6.0000		-												
THALLIUM	MG/L	0.0010		U												
VANADIUM	MG/L	0.0132		U												
ZINC	MG/L	0.0261		U												
RADIONUCLIDES																
URANIUM-238	PCI/L				0.6000	.3	R	1.6000	.4	R						
URANIUM, TOTAL	UG/L				1.8000	.1	-	5.5000	.4	J	7.5000		NV	6.5000		NV
URANIUM-234	PCI/L				0.9000	.3	R	1.4000	.4	R						

SAMPLE NUMBER:		118289			118291			118292			118294			118295		
LAB:					CORE			CORE								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L				0.3000	.3	UJ	0.5000	.3	J						
RADIUM-226	PCI/L				1.0000	.6	U	1.3000	.6	J						
URANIUM-235/236	PCI/L				0.2000	.2	R	0.1000	.5	R						
THORIUM-232	PCI/L				0.2000	.2	UJ	0.2000	.2	UJ						
THORIUM, TOTAL	UG/L							1.8241	.2	NV						
RADIUM-228	PCI/L				3.0000	1.7	U	3.0000	1.6	UJ						
THORIUM-228	PCI/L				0.3000	.3	UJ	0.3000	.2	J						
TECHNETIUM-99	PCI/L				15.0000	6.8	UJ									
GROSS ALPHA	PCI/L				8.2000	2.6	NV	5.6000	3.1	UNV						
GROSS BETA	PCI/L				7.1000	3.4	NV	5.1000	3	UNV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045237	045238	045884	045249	045250
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	WMCO	IT
WELL OR BORING NUMBER:	1271	1271	1271	1272	1272
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-JUL-89	02-NOV-89	02-NOV-89	17-JUL-89	02-NOV-89
NORTH COORDINATE:	479978.04	479978.04	479978.04	482071.07	482071.07
EAST COORDINATE:	1380205.43	1380205.43	1380205.43	1380988.72	1380988.72
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							0.2100		-						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	610.0000		NV	933.0000	132	J				4.8000		NV	7.0000	1	J

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045893			120325			120325F			120326			120326F	
TASK:		3.7			50.03.23			50.03.23			50.03.23			50.03.23	
LAB:		IT			FERMCO			FERMCO			DATACHEM			DATACHEM	
WELL OR BORING NUMBER:		1273			1273			1273			1273			1273	
DEPTH:		-			-			-			-			-	
DATE COLLECTED:		05-FEB-90			08-JUN-93			08-JUN-93			08-JUN-93			08-JUN-93	
NORTH COORDINATE:		482071.1			482071.1			482071.1			482071.1			482071.1	
EAST COORDINATE:		1381241.49			1381241.49			1381241.49			1381241.49			1381241.49	
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										370.0000		-			
AMMONIA	MG/L										0.1000		-			
CHLORIDE	MG/L										7.9000		-			
FLUORIDE	MG/L										0.2000		-			
NITRATE	MG/L	0.1000		U												
NITRATE/NITRITE	MG/L										0.0500		U			
PHENOLS	MG/L										0.0020		U			
PHOSPHORUS	MG/L										0.7700		-			
SULFATE	MG/L										79.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										2.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0200		-			
INORGANICS																
ALUMINUM	MG/L										4.0500		J	0.0600		UJ
ANTIMONY	MG/L										0.0157		U	0.0157		U
ARSENIC	MG/L										0.0020		U	0.0020		U
BARIUM	MG/L										0.1610		-	0.0580		-
BERYLLIUM	MG/L										0.0004		U	0.0003		U
CADMIUM	MG/L										0.0012		U	0.0012		U
CALCIUM	MG/L										144.0000		-	129.0000		-
CHROMIUM	MG/L										0.0099		J	0.0031		UJ
COBALT	MG/L										0.0119		-	0.0034		U
COPPER	MG/L										0.0086		-	0.0024		U
CYANIDE	MG/L										0.0100		U	0.0100		U
IRON	MG/L										8.8300		-	0.0208		U
LEAD	MG/L										0.0026		-	0.0010		U
MAGNESIUM	MG/L										33.1000		-	29.2000		-
MANGANESE	MG/L										14.6000		-	2.0000		-

SAMPLE NUMBER:	045893	120325	120325F	120326	120326F
LAB:				DATACHEM	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120328	120328F	045253	045254	045896
TASK:	50.03.23	50.03.23	3.7	3.7	3.7
LAB:	CORE	CORE	WMCO	IT	IT
WELL OR BORING NUMBER:	1273	1273	1274	1274	1274
DEPTH:	-	-	-	-	-
DATE COLLECTED:	08-JUN-93	08-JUN-93	17-JUL-89	02-NOV-89	02-NOV-89
NORTH COORDINATE:	482071.1	482071.1	482063.8	482063.8	482063.8
EAST COORDINATE:	1381241.49	1381241.49	1381462.3	1381462.3	1381462.3
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													0.1000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	1.5000	.4	J	1.5000	.4	J									
URANIUM, TOTAL	UG/L	5.4000	.4	-	5.4000	.4	R	9.7000		NV	12.0000	2	J			
URANIUM-234	PCI/L	1.7000	.4	J	1.7000	.4	J									
THORIUM-230	PCI/L	0.5000	.3	J	0.5000	.3	J									
RADIUM-226	PCI/L	1.1000	.5	-	1.1000	.5	-									
URANIUM-235/236	PCI/L	0.2000	.5	UJ	0.2000	.5	UJ									
THORIUM-232	PCI/L	0.2000	.3	UJ	0.2000	.3	UJ									
THORIUM, TOTAL	UG/L	1.8241	.3	NV	1.8241	.3	NV									
RADIUM-228	PCI/L	3.0000	1.1	U	3.0000	1.1	U									
THORIUM-228	PCI/L	0.3000	.7	J	0.3000	.7	J									
TECHNETIUM-99	PCI/L	15.0000	6.3	UJ	15.0000	6.7	UJ									
GROSS ALPHA	PCI/L	8.8000	3.6	NV	8.8000	3.7	NV									
GROSS BETA	PCI/L	7.8000	3.7	NV	7.8000	3.7	UNV									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045897	045261	045262	045900	045901
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	WMCO	IT	IT	IT
WELL OR BORING NUMBER:	1274	1276	1276	1276	1276
DEPTH:	-	-	-	-	-
DATE COLLECTED:	06-FEB-90	16-JUL-89	05-NOV-89	05-NOV-89	05-NOV-89
NORTH COORDINATE:	482063.8	482052.32	482052.32	482052.32	482052.32
EAST COORDINATE:	1381462.3	1381885.01	1381885.01	1381885.01	1381885.01
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DUPLICATE
QC OF:					045262
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		UR							0.1000		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				95.6000		NV	39.0000	6	-				40.0000	6	-

SAMPLE NUMBER:	045902	045903	GW930126-5	GW930421-2	GW930714-2
LAB:			NET	LOCKHEED	
SUFFIX/FILTERFLAG:	-	-	NONE-FIL	NONE-FIL	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CHROMIUM	MG/L							0.0020		UNV	0.0040		U			
COBALT	MG/L							0.0050		UNV	0.0080		U			
COPPER	MG/L							0.0200		UNV	0.0066		-			
CYANIDE	MG/L							0.0050		UNV	0.0200		U			
IRON	MG/L							0.1000		UNV	2.8500		-			
LEAD	MG/L							0.0030		UNV	0.0020		U			
MAGNESIUM	MG/L							48.3000		NV	52.8000		-			
MANGANESE	MG/L							1.3800		NV	0.2080		-			
MERCURY	MG/L							0.0002		UNV	0.0002		U			
MOLYBDENUM	MG/L							0.0100		UNV	0.0150		U			
NICKEL	MG/L							0.0100		UNV	0.0310		U			
POTASSIUM	MG/L							8.4000		NV	2.4600		-			
SELENIUM	MG/L							0.0050		UNV	0.0020		UJ			
SILVER	MG/L							0.0015		NV	0.0030		U			
SODIUM	MG/L							12.0000		NV	12.0000		-			
THALLIUM	MG/L							0.0100		UNV	0.0020		U			
VANADIUM	MG/L							0.0500		UNV	0.0070		U			
ZINC	MG/L							0.1520		NV	0.0388		U			
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							5.0000		UNV						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							2.0000		UNV						
1,2-DIBROMOETHANE	UG/L							2.0000		UNV						
2-CHLORO-1,3-BUTADIENE	UG/L							5.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACRYLONITRILE	UG/L							50.0000		UNV						
DICHLORODIFLUOROMETHANE	UG/L							10.0000		UNV						
ETHYL CYANIDE	UG/L							20.0000		UNV						
ETHYL METHACRYLATE	UG/L							5.0000		UNV						
IODOMETHANE	UG/L							5.0000		UNV						
METHACRYLONITRILE	UG/L							5.0000		UNV						
METHYL METHACRYLATE	UG/L							5.0000		UNV						
PENTACHLOROETHANE	UG/L							5.0000		UNV						
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L							20.0000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L										1.6000	.3	J	4.0000	.9	J
URANIUM, TOTAL	UG/L							4.2000		NV	16.0000		NV	13.1000	.9	-
URANIUM-234	PCI/L										1.4000	.2	J	3.8000	.8	J
THORIUM-230	PCI/L							0.4000	.2	NV	0.2000	.1	UJ	0.3000	.2	J
RADIUM-226	PCI/L							2.2000	.5	NV	3.6000	.7	J	1.0000	.2	UJ

001524

5704

SAMPLE NUMBER:		045902			045903			GW930126-5			GW930421-2			GW930714-2		
LAB:								CORE			CORE			CORE		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L										0.2000	.2	UJ	0.2000	.1	UJ
THORIUM-232	PCI/L							0.2000	.1	UNV	0.3000	.1	UJ	0.3000	.2	J
THORIUM, TOTAL	UG/L							1.1000		NV				2.7361	.2	NV
RADIUM-228	PCI/L							3.0000	1.4	UNV	3.5000	1.2	-	3.0000	1.2	U
THORIUM-228	PCI/L							0.2000	.1	UNV	0.3000	.1	J	0.5000	1.1	J
TECHNETIUM-99	PCI/L										33.5000	7.4	R	15.0000	7.9	UJ
GROSS ALPHA	PCI/L							2.7000	9.9	UNV	134.0000	26	NV	18.8000	4.5	NV
GROSS BETA	PCI/L							39.4000	11.7	NV	173.0000	28.5	NV	7.7000	4.4	NV
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV						
CUMENE	UG/L							1.0000		UNV						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U			
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U			
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	10.0000		U			
1,2-DICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	10.0000		U			
2-BUTANONE	UG/L							10.0000		UNV	10.0000		U			
2-HEXANONE	UG/L							10.0000		UNV	10.0000		U			
4-METHYL-2-PENTANONE	UG/L							10.0000		UNV	10.0000		U			
ACETONE	UG/L							10.0000		UNV	13.0000		UJ			
BENZENE	UG/L							1.0000		UNV	10.0000		U			
BROMODICHLOROMETHANE	UG/L							1.0000		UNV	10.0000		U			
BROMOFORM	UG/L							1.0000		UNV	10.0000		U			
BROMOMETHANE	UG/L							5.0000		UNV	10.0000		UJ			
CARBON DISULFIDE	UG/L							1.0000		UNV	10.0000		U			
CARBON TETRACHLORIDE	UG/L							1.0000		UNV	10.0000		U			
CHLOROBENZENE	UG/L							1.0000		UNV	10.0000		U			
CHLOROETHANE	UG/L							10.0000		UNV	10.0000		U			
CHLOROFORM	UG/L							1.0000		UNV	10.0000		U			
CHLOROMETHANE	UG/L							10.0000		UNV	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV	10.0000		U			
ETHYLBENZENE	UG/L							1.0000		UNV	10.0000		U			
METHYLENE CHLORIDE	UG/L							10.0000		UNV	10.0000		U			
STYRENE	UG/L							1.0000		UNV	10.0000		U			
TETRACHLOROETHENE	UG/L							1.0000		UNV	10.0000		U			

SAMPLE NUMBER:	045902			045903			GW930126-5 NET NONE-UNF			GW930421-2 LOCKHEED NONE-UNF			GW930714-2		
LAB:															
SUFFIX/FILTERFLAG:	-			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TOLUENE UG/L							1.0000		UNV	10.0000		U			
TRANS-1,3-DICHLOROPROPENE UG/L							1.0000		UNV	10.0000		U			
TRICHLOROETHENE UG/L							1.0000		UNV	10.0000		U			
TRICHLOROFLUOROMETHANE UG/L							1.0000		UNV						
VINYL ACETATE UG/L							10.0000		UNV						
VINYL CHLORIDE UG/L							5.0000		UNV	10.0000		U			
XYLENES, TOTAL UG/L							1.0000		UNV	10.0000		U			

SAMPLE NUMBER:		045247			045248			045908			045909			118428		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L													0.0030		UJ
SODIUM	MG/L													23.5000		-
THALLIUM	MG/L													0.0010		UJ
VANADIUM	MG/L													0.0214		U
ZINC	MG/L													0.0466		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	8.4000		NV	6.0000	1	-									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		U
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		U
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		U
CHLOROMETHANE	UG/L													10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL ACETATE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118429			118430			118433			118434			118435		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		DATACHEM			CORE			FERMCO			FERMCO			CORE		
WELL OR BORING NUMBER:		1278			1278			1278			1278			1278		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		25-MAY-93			25-MAY-93			25-MAY-93			25-MAY-93			25-MAY-93		
NORTH COORDINATE:		481854.87			481854.87			481854.87			481854.87			481854.87		
EAST COORDINATE:		1380973.36			1380973.36			1380973.36			1380973.36			1380973.36		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	0.0140		U												
ANTIMONY	MG/L	0.0450		U												
ARSENIC	MG/L	0.0010		UJ												
BARIUM	MG/L	0.0720		-												
BERYLLIUM	MG/L	0.0010		UJ												
CADMIUM	MG/L	0.0030		U												
CALCIUM	MG/L	120.0000		-												
CHROMIUM	MG/L	0.0040		U												
COBALT	MG/L	0.0060		U												
COPPER	MG/L	0.0040		U												
CYANIDE	MG/L	0.0100		U												
IRON	MG/L	0.0586		U												
LEAD	MG/L	0.0010		UR												
MAGNESIUM	MG/L	33.4000		-												
MANGANESE	MG/L	0.0037		U												
MERCURY	MG/L	0.0002		U												
NICKEL	MG/L	0.0190		U												
POTASSIUM	MG/L	0.7600		-												
SELENIUM	MG/L	0.0020		UJ												
SILVER	MG/L	0.0030		UJ												
SODIUM	MG/L	23.7000		-												
THALLIUM	MG/L	0.0010		UJ												
VANADIUM	MG/L	0.0040		U												
ZINC	MG/L	0.0321		-												
RADIONUCLIDES																
URANIUM-238	PCI/L				6.7000	1.4	J							6.6000	1.1	J
URANIUM, TOTAL	UG/L				17.8000	1.2	-	18.0000		NV	19.0000		NV	16.4000	1.1	-
URANIUM-234	PCI/L				5.4000	.7	J							6.5000	.7	J

001528

5704

SAMPLE NUMBER:	118429	118430	118433	118434	118435
LAB:		CORE			CORE
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	NONE-FIL

		118429 RESULT	SIGMA	VAL QUAL(1)	118430 RESULT	SIGMA	VAL QUAL(1)	118433 RESULT	SIGMA	VAL QUAL(1)	118434 RESULT	SIGMA	VAL QUAL(1)	118435 RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L				0.7000	.3	J							0.2000	.2	UJ
RADIUM-226	PCI/L				1.0000	.6	UJ							1.0000	.3	U
URANIUM-235/236	PCI/L				0.4000	.1	J							0.3000	.5	J
THORIUM-232	PCI/L				0.2000	.5	UJ							0.2000	.2	U
THORIUM, TOTAL	UG/L				1.8241	.5	NV									
RADIUM-228	PCI/L				3.0000	1.2	U							3.0000	1.1	U
THORIUM-228	PCI/L				0.7000	.5	J							0.2000	2.6	U
TECHNETIUM-99	PCI/L				15.0000	7.6	U							15.0000	7.2	U
GROSS ALPHA	PCI/L													6.5000	4	NV
GROSS BETA	PCI/L													11.0000	3.4	NV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045285	045912	045913	118436	118439
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	DATACHEM	CORE
WELL OR BORING NUMBER:	1279	1279	1279	1279	1279
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-NOV-89	05-NOV-89	06-FEB-90	25-MAY-93	25-MAY-93
NORTH COORDINATE:	481851.1	481851.1	481851.1	481851.1	481851.1
EAST COORDINATE:	1381358.44	1381358.44	1381358.44	1381358.44	1381358.44
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										0.0500		U			
NITRATE	MG/L				0.1000		U	0.1600		R						
NITRATE/NITRITE	MG/L										0.0500		U			
PHENOLS	MG/L										0.0200		U			
PHOSPHORUS	MG/L										0.9700		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										3.0000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0200		-			
INORGANICS																
ALUMINUM	MG/L										30.4000		-			
ANTIMONY	MG/L										0.0450		U			
ARSENIC	MG/L										0.0050		J			
BARIUM	MG/L										0.2470		-			
BERYLLIUM	MG/L										0.0010		UJ			
CADMIUM	MG/L										0.0030		U			
CALCIUM	MG/L										239.0000		-			
CHROMIUM	MG/L										0.0380		U			
COBALT	MG/L										0.0282		U			
COPPER	MG/L										0.0495		-			
CYANIDE	MG/L										0.0100		U			
IRON	MG/L										51.1000		-			
LEAD	MG/L										0.0243		R			
MAGNESIUM	MG/L										86.5000		-			
MANGANESE	MG/L										1.2900		-			
MERCURY	MG/L										0.0002		U			
NICKEL	MG/L										0.0614		U			
POTASSIUM	MG/L										9.7600		-			
SELENIUM	MG/L										0.0200		UJ			

SAMPLE NUMBER:		045285			045912			045913			118436			118439		
LAB:											DATACHEM					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L										0.0030		UJ			
SODIUM	MG/L										15.3000		-			
THALLIUM	MG/L										0.0010		UJ			
VANADIUM	MG/L										0.0580		-			
ZINC	MG/L										0.1320		-			
RADIONUCLIDES																
URANIUM-238	PCI/L													41.8000	7.3	R
URANIUM, TOTAL	UG/L	260.000B6		-										102.0000	7.1	-
URANIUM-234	PCI/L													29.8000	5.4	R
THORIUM-230	PCI/L													0.6000	.3	J
RADIUM-226	PCI/L													1.4000	.5	J
URANIUM-235/236	PCI/L													6.3000	1.7	R
THORIUM-232	PCI/L													0.4000	.3	J
THORIUM, TOTAL	UG/L													3.6480	.3	NV
RADIUM-228	PCI/L													3.0000	1	U
THORIUM-228	PCI/L													0.2000	.7	UJ
TECHNETIUM-99	PCI/L													31.9000	10.2	J
GROSS ALPHA	PCI/L													108.0000	13.5	NV
GROSS BETA	PCI/L													84.1000	10.8	NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHANE	UG/L										10.0000		U			
1,1-DICHLOROETHENE	UG/L										10.0000		U			
1,2-DICHLOROETHANE	UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		U			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		U			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			

SAMPLE NUMBER:	045285			045912			045913			118436			118439		
LAB:										DATACHEM					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROMETHANE UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
DIBROMOCHLOROMETHANE UG/L										10.0000		U			
ETHYLBENZENE UG/L										10.0000		U			
METHYLENE CHLORIDE UG/L										10.0000		U			
STYRENE UG/L										10.0000		U			
TETRACHLOROETHENE UG/L										10.0000		U			
TOLUENE UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE UG/L										10.0000		U			
TRICHLOROETHENE UG/L										10.0000		U			
VINYL ACETATE UG/L										10.0000		U			
VINYL CHLORIDE UG/L										10.0000		U			
XYLENES, TOTAL UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118441			118442			118443			118508			118733		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		FERMCO			FERMCO			FERMCO			CORE			DATACHEM		
WELL OR BORING NUMBER:		1279			1279			1279			1279			1279		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		25-MAY-93			25-MAY-93			26-MAY-93			02-JUN-93			26-JUL-93		
NORTH COORDINATE:		481851.1			481851.1			481851.1			481851.1			481851.1		
EAST COORDINATE:		1381358.44			1381358.44			1381358.44			1381358.44			1381358.44		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L													2.0200		-
ANTIMONY	MG/L													0.0450		U
ARSENIC	MG/L													0.0010		U
BARIUM	MG/L													0.1010		-
BERYLLIUM	MG/L													0.0010		U
CADMIUM	MG/L													0.0030		U
CALCIUM	MG/L													115.0000		-
CHROMIUM	MG/L													0.0174		-
COBALT	MG/L													0.0067		-
COPPER	MG/L													0.0145		-
IRON	MG/L													4.5600		-
LEAD	MG/L													0.0020		J
MAGNESIUM	MG/L													55.4000		-
MANGANESE	MG/L													0.4500		-
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.0190		U
POTASSIUM	MG/L													3.5000		-
SELENIUM	MG/L													0.0020		UJ
SILVER	MG/L													0.0030		U
SODIUM	MG/L													16.1000		-
THALLIUM	MG/L													0.0010		UJ
VANADIUM	MG/L													0.0054		-
ZINC	MG/L													0.0291		J
RADIONUCLIDES																
URANIUM-238	PCI/L										33.1000	6.6	J			
URANIUM, TOTAL	UG/L				76.0000		NV	80.0000		NV	91.7000	6.4	-			
URANIUM-234	PCI/L										30.2000	6	J			
THORIUM-230	PCI/L										0.2000	.3	R			

SAMPLE NUMBER:		118441			118442			118443			118508			118733		
LAB:											CORE					
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L										1.0000	.3	U			
URANIUM-235/236	PCI/L										1.7000	.8	J			
THORIUM-232	PCI/L										0.3000	.2	R			
RADIUM-228	PCI/L										3.0000	.8	U			
THORIUM-228	PCI/L										0.2000	2.6	R			
TECHNETIUM-99	PCI/L										16.1000	7.2	-			
GROSS ALPHA	PCI/L	220.0000		UNV							59.4000	6.3	NV			
GROSS BETA	PCI/L	330.0000		UNV							24.7000	3.9	NV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118734			120490			120490F			120491			120491F		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		CORE			DATACHEM			DATACHEM			CORE			CORE		
WELL OR BORING NUMBER:		1279			1279			1279			1279			1279		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		26-JUL-93			29-JUL-93			29-JUL-93			29-JUL-93			29-JUL-93		
NORTH COORDINATE:		481851.1			481851.1			481851.1			481851.1			481851.1		
EAST COORDINATE:		1381358.44			1381358.44			1381358.44			1381358.44			1381358.44		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				380.0000		-									
CHLORIDE	MG/L				5.8000		J									
FLUORIDE	MG/L				0.7000		-									
NITRATE/NITRITE	MG/L				0.0500		UJ									
SULFATE	MG/L				65.0000		-									
INORGANICS																
ALUMINUM	MG/L							1.2700		-						
ANTIMONY	MG/L							0.0450		U						
ARSENIC	MG/L							0.0027		-						
BARIUM	MG/L							0.1570		-						
BERYLLIUM	MG/L							0.0010		U						
CADMIUM	MG/L							0.0030		U						
CALCIUM	MG/L							268.0000		-						
CHROMIUM	MG/L							0.0090		U						
COBALT	MG/L							0.0071		-						
COPPER	MG/L							0.0191		-						
IRON	MG/L							2.7600		-						
LEAD	MG/L							0.0114		-						
MAGNESIUM	MG/L							82.4000		-						
MANGANESE	MG/L							0.9990		-						
MERCURY	MG/L							0.0002		U						
NICKEL	MG/L							0.0190		U						
POTASSIUM	MG/L							2.7400		-						
SELENIUM	MG/L							0.0020		UJ						
SILVER	MG/L							0.0030		U						
SODIUM	MG/L							17.5000		-						
THALLIUM	MG/L							0.0018		U						
VANADIUM	MG/L							0.0040		U						

SAMPLE NUMBER:		118734			120490			120490F			120491			120491F		
LAB:								DATACHEM								
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ZINC	MG/L							0.0250		-						
RADIONUCLIDES																
URANIUM-238	PCI/L	23.2000	2.4	J							20.4000	2.5	R	20.3000	2.2	J
URANIUM, TOTAL	UG/L	59.5000	4.2	-							51.9000	3.6	-	47.9000	3.4	-
URANIUM-234	PCI/L	21.2000	2.1	J							19.5000	2.3	R	19.0000	1.9	J
THORIUM-230	PCI/L	0.4000	.2	J							0.3000	.2	J	0.6000	.2	J
RADIUM-226	PCI/L	1.0000	.4	U							1.0000	.4	U	1.1000	.6	U
URANIUM-235/236	PCI/L	1.0000	.2	J							0.7000	.2	R	0.8000	.2	J
THORIUM-232	PCI/L	0.2000	.2	UJ							0.2000	.2	UJ	0.3000	.5	R
THORIUM, TOTAL	UG/L	0.9120	.2	NV							0.9120	.2	NV	2.7361	.5	NV
RADIUM-228	PCI/L	3.0000	1	U							3.0000	1	U	3.0000	1	U
THORIUM-228	PCI/L	0.2000	.2	UJ							0.2000	.2	UJ	0.3000	.5	J
TECHNETIUM-99	PCI/L	15.0000	7.7	U												
GROSS ALPHA	PCI/L										25.9000	4.2	NV			
GROSS BETA	PCI/L										21.3000	3.5	NV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045257	045258	045916	045917	045265
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	WMCO	IT	IT	IT	WMCO
WELL OR BORING NUMBER:	1280	1280	1280	1280	1281
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-JUL-89	05-NOV-89	05-NOV-89	07-FEB-90	16-JUL-89
NORTH COORDINATE:	481878.01	481878.01	481878.01	481878.01	481844
EAST COORDINATE:	1381663	1381663	1381663	1381663	1381864.34
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							0.1000		U	0.1000		UR			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	71.8000		NV	35.0000	5	-							96.0000		NV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045266	045920	045921	120363	120364
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	TCT	CORE
WELL OR BORING NUMBER:	1281	1281	1281	1281	1281
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-NOV-89	05-NOV-89	07-FEB-90	30-JUN-93	30-JUN-93
NORTH COORDINATE:	481844	481844	481844	481844	481844
EAST COORDINATE:	1381864.34	1381864.34	1381864.34	1381864.34	1381864.34
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										296.0000		-			
AMMONIA	MG/L										0.0300		U			
CHLORIDE	MG/L										14.5000		-			
FLUORIDE	MG/L										0.1900		-			
NITRATE	MG/L				0.1000		U	0.3330		J						
NITRITE, AS NITROGEN	MG/L										0.2000		U			
PHENOLS	MG/L										0.0050		U			
PHOSPHATE	MG/L										0.2060		-			
SULFATE	MG/L										151.0000		-			
SULFIDE	MG/L										1.0000		UJ			
TOTAL KJELDAHL NITROGEN	MG/L										0.1110		U			
TOTAL ORGANIC CARBON	MG/L										8.7000		-			
TOTAL ORGANIC HALIDES	MG/L										0.0123		-			
TOTAL ORGANIC NITROGEN	MG/L										0.1110		U			
INORGANICS																
ALUMINUM	MG/L										0.1900		U			
ANTIMONY	MG/L										0.0140		UJ			
ARSENIC	MG/L										0.0010		U			
BARIUM	MG/L										0.1320		-			
BERYLLIUM	MG/L										0.0050		UR			
CADMIUM	MG/L										0.0052		J			
CALCIUM	MG/L										181.0000		-			
CHROMIUM	MG/L										0.0060		U			
COBALT	MG/L										0.0170		UR			
COPPER	MG/L										0.0090		UR			
CYANIDE	MG/L										0.0050		U			
IRON	MG/L										0.0220		U			
LEAD	MG/L										0.0010		UJ			

SAMPLE NUMBER:	045266			045920			045921			120363			120364		
LAB:										TCT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM MG/L										46.5000		-			
MANGANESE MG/L										0.1110		-			
MERCURY MG/L										0.0001		U			
MOLYBDENUM MG/L										0.0170		U			
NICKEL MG/L										0.0180		UR			
POTASSIUM MG/L										0.5400		-			
SELENIUM MG/L										0.0062		J			
SILICON MG/L										7.0500		-			
SILVER MG/L										0.0020		U			
SODIUM MG/L										9.1300		-			
THALLIUM MG/L										0.0010		UR			
VANADIUM MG/L										0.0240		UR			
ZINC MG/L										0.0236		R			
RADIONUCLIDES															
URANIUM-238 PCI/L													262.0000	39.7	-
URANIUM, TOTAL UG/L	137.00003		-										790.0000	55.3	-
URANIUM-234 PCI/L													225.0000	34.9	J
THORIUM-230 PCI/L													0.4000	.3	J
RADIUM-226 PCI/L													1.0000	.3	UJ
URANIUM-235/236 PCI/L													14.7000	5.2	-
THORIUM-232 PCI/L													0.2000	1	U
THORIUM, TOTAL UG/L													1.8241	1	NV
RADIUM-228 PCI/L													3.0000	1.1	U
THORIUM-228 PCI/L													0.4000	1.4	-
TECHNETIUM-99 PCI/L													40.5000	9.1	-
GROSS ALPHA PCI/L													359.0000	18.9	NV
GROSS BETA PCI/L													194.0000	8.6	NV
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										10.0000		U			
1,1,2,2-TETRACHLOROETHANE UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE UG/L										10.0000		U			
1,1-DICHLOROETHANE UG/L										10.0000		U			
1,1-DICHLOROETHENE UG/L										10.0000		U			
1,2-DICHLOROETHANE UG/L										10.0000		U			
1,2-DICHLOROETHENE (TOTAL) UG/L										10.0000		U			
1,2-DICHLOROPROPANE UG/L										10.0000		U			
2-BUTANONE UG/L										10.0000		UJ			
2-HEXANONE UG/L										10.0000		UJ			
4-METHYL-2-PENTANONE UG/L										10.0000		UJ			
ACETONE UG/L										10.0000		U			
BENZENE UG/L										10.0000		U			

SAMPLE NUMBER:		045266			045920			045921			120363			120364		
LAB:											TCT					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		UJ			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										10.0000		U			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120364F	120366	120366F	045283	045924
TASK:	50.03.23	50.03.23	50.03.23	3.7	3.7
LAB:	CORE	FERMCO	FERMCO	IT	IT
WELL OR BORING NUMBER:	1281	1281	1281	1283	1283
DEPTH:	-	-	-	-	-
DATE COLLECTED:	30-JUN-93	30-JUN-93	30-JUN-93	05-NOV-89	05-NOV-89
NORTH COORDINATE:	481844	481844	481844	481703.7	481703.7
EAST COORDINATE:	1381864.34	1381864.34	1381864.34	1381087.91	1381087.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													0.1000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	387.0000	47	J												
URANIUM, TOTAL	UG/L	810.0000	6.7	-	850.0000		NV	750.0000		NV	362.0000	48	-			
URANIUM-234	PCI/L	323.0000	24	J												
THORIUM-230	PCI/L	0.5000	.3	J												
RADIUM-226	PCI/L	1.0000	.2	U												
URANIUM-235/236	PCI/L	9.9000	10.3	J												
THORIUM-232	PCI/L	0.2000	.3	UJ												
RADIUM-228	PCI/L	3.1000	1.5	-												
THORIUM-228	PCI/L	0.2000	.4	UJ												
TECHNETIUM-99	PCI/L	15.0000	6.9	UJ												
GROSS ALPHA	PCI/L	320.0000	6	NV												
GROSS BETA	PCI/L	157.0000	8	NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045925	045926	118420	118421	118424
TASK:	3.7	3.7	50.03.23	50.03.23	50.03.23
LAB:	IT	IT	DATACHEM	DATACHEM	FERMCO
WELL OR BORING NUMBER:	1283	1283	1283	1283	1283
DEPTH:	-	-	-	-	-
DATE COLLECTED:	06-FEB-90	14-JUN-90	25-MAY-93	25-MAY-93	25-MAY-93
NORTH COORDINATE:	481703.7	481703.7	481703.7	481703.7	481703.7
EAST COORDINATE:	1381087.91	1381087.91	1381087.91	1381087.91	1381087.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L							0.1600		-						
NITRATE	MG/L	0.1000		UR												
NITRATE/NITRITE	MG/L							0.0500		U						
PHENOLS	MG/L							0.0200		U						
PHOSPHORUS	MG/L							0.2300		-						
SULFIDE	MG/L							1.0000		U						
TOTAL ORGANIC CARBON	MG/L							5.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.6600		-						
INORGANICS																
ALUMINUM	MG/L				0.1020		-	1.1600		-	0.0140		U			
ANTIMONY	MG/L				0.0300		U	0.0450		U	0.0450		U			
ARSENIC	MG/L				0.0020		U	0.0010		UJ	0.0010		UJ			
BARIUM	MG/L				0.0590		-	0.0393		-	0.0317		-			
BERYLLIUM	MG/L				0.0020		U	0.0010		UJ	0.0010		UJ			
CADMIUM	MG/L				0.0124		J	0.0030		U	0.0030		U			
CALCIUM	MG/L				341.0000		-	323.0000		-	342.0000		-			
CHROMIUM	MG/L				0.0588		-	0.0040		U	0.0046		U			
COBALT	MG/L				0.0100		U	0.0060		U	0.0060		U			
COPPER	MG/L				0.0210		-	0.0040		U	0.0040		U			
CYANIDE	MG/L				0.0020		U	0.0100		U	0.0100		U			
IRON	MG/L				0.0363		U	2.2100		-	0.0150		U			
LEAD	MG/L				0.0020		UJ	0.0010		R	0.0010		UR			
MAGNESIUM	MG/L				84.4000		-	81.4000		-	77.0000		-			
MANGANESE	MG/L				1.1300		-	0.8940		-	0.4610		-			
MERCURY	MG/L				0.0002		UR	0.0002		U	0.0002		U			
MOLYBDENUM	MG/L				0.0100		U									
NICKEL	MG/L				0.0318		-	0.0331		U	0.0190		U			
POTASSIUM	MG/L				3.6600		-	2.6000		-	1.8000		-			

SAMPLE NUMBER:	045925	045926	118420	118421	118424
LAB:		IT	DATACHEM	DATACHEM	
SUFFIX/FILTERFLAG:	-	NONE-FIL	NONE-UNF	NONE-FIL	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SELENIUM	MG/L				0.0020		UJ	0.0020		UJ	0.0020		UJ			
SILVER	MG/L				0.0326		-	0.0030		UJ	0.0030		UJ			
SODIUM	MG/L				19.0000		-	21.2000		-	19.8000		-			
THALLIUM	MG/L				0.0020		U	0.0010		UJ	0.0010		UJ			
VANADIUM	MG/L				0.0282		-	0.0082		U	0.0051		U			
ZINC	MG/L				0.0195		U	0.0060		U	0.0060		U			
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.2000		UR									
ALDRIN	UG/L				0.1000		UR									
ALPHA-BHC	UG/L				0.1000		UR									
ALPHA-CHLORDANE	UG/L				0.5000		U									
AROCLOR-1016	UG/L				0.5000		U									
AROCLOR-1221	UG/L				0.5000		U									
AROCLOR-1232	UG/L				1.0000		UR									
AROCLOR-1242	UG/L				0.5000		U									
AROCLOR-1248	UG/L				0.5000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.1000		UR									
DELTA-BHC	UG/L				0.1000		UR									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.2000		UR									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.2000		UR									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				1.0000		UR									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				2.0000		UR									
RADIONUCLIDES																
URANIUM, TOTAL	UG/L													130.0000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		UR									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									

000754

SAMPLE NUMBER:	045925	045926	118420	118421	118424
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		UR									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		UR									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		UR									
2,4-DINITROPHENOL	UG/L				50.0000		UJ									
2,4-DINITROTOLUENE	UG/L				10.0000		UNV									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		UR									
2-METHYLNAPHTHALENE	UG/L				10.0000		UR									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				50.0000		UR									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UNV									
3-NITROANILINE	UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UJ									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		UNV									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		UNV									
4-METHYLPHENOL	UG/L				10.0000		UR									
4-NITROANILINE	UG/L				50.0000		U									
4-NITROPHENOL	UG/L				50.0000		UNV									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		UR									
ANTHRACENE	UG/L				10.0000		UNV									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		UNV									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UNV									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		UR									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		UJ									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		UNV									
CHRYSENE	UG/L				10.0000		UNV									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UJ									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UNV									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ									
DIBENZOFURAN	UG/L				10.0000		UNV									
DIETHYL PHTHALATE	UG/L				10.0000		U									

SAMPLE NUMBER:	045925	045926	118420	118421	118424
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
DIMETHYL PHTHALATE	UG/L				10.0000		UR									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		UJ									
HEXACHLOROBENZENE	UG/L				10.0000		UJ									
HEXACHLOROBUTADIENE	UG/L				10.0000		UR									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UR									
HEXACHLOROETHANE	UG/L				10.0000		UR									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		UJ									
ISOPHORONE	UG/L				10.0000		UR									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		UR									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		U									
PENTACHLOROPHENOL	UG/L				50.0000		UNV									
PHENANTHRENE	UG/L				10.0000		UNV									
PHENOL	MG/L				10.0000		U									
PYRENE	UG/L				10.0000		UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				230.0000		R	200.0000		-						
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		UJ	10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U	10.0000		U						
1,1-DICHLOROETHANE	UG/L				680.0000		R	800.0000		-						
1,1-DICHLOROETHENE	UG/L				140.0000		-	180.0000		-						
1,2-DICHLOROETHANE	UG/L				3.0000		J	3.0000		J						
1,2-DICHLOROETHENE (TOTAL)	UG/L				590.0000		R	1000.0000		J						
1,2-DICHLOROPROPANE	UG/L				5.0000		U	10.0000		U						
2-BUTANONE	UG/L				10.0000		U	10.0000		U						
2-HEXANONE	UG/L				10.0000		U	10.0000		U						
4-METHYL-2-PENTANONE	UG/L				10.0000		U	10.0000		U						
ACETONE	UG/L				10.0000		UJ	10.0000		U						
BENZENE	UG/L				5.0000		U	10.0000		U						
BROMODICHLOROMETHANE	UG/L				5.0000		U	10.0000		U						
BROMOFORM	UG/L				5.0000		U	10.0000		U						
BROMOMETHANE	UG/L				10.0000		U	10.0000		U						
CARBON DISULFIDE	UG/L				5.0000		UR	10.0000		U						
CARBON TETRACHLORIDE	UG/L				5.0000		U	10.0000		U						
CHLOROBENZENE	UG/L				5.0000		U	10.0000		U						
CHLOROETHANE	UG/L				10.0000		U	10.0000		U						
CHLOROFORM	UG/L				5.0000		U	10.0000		U						
CHLOROMETHANE	UG/L				10.0000		U	10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U	10.0000		U						
DIBROMOCHLOROMETHANE	UG/L				5.0000		U	10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045925	045926	118420	118421	118424
LAB:		IT	DATACHEM		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ETHYLBENZENE	UG/L				5.0000		U	10.0000		U						
METHYLENE CHLORIDE	UG/L				5.0000		U	10.0000		U						
STYRENE	UG/L				5.0000		U	10.0000		U						
TETRACHLOROETHENE	UG/L				5.0000		U	10.0000		U						
TOLUENE	UG/L				5.0000		U	10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U	10.0000		U						
TRICHLOROETHENE	UG/L				72.0000		-	70.0000		-						
VINYL ACETATE	UG/L				10.0000		U	10.0000		U						
VINYL CHLORIDE	UG/L				10.0000		U	10.0000		U						
XYLENES, TOTAL	UG/L				5.0000		U	10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118425			118426			118427			045280			045281			
TASK:		50.03.23			50.03.23			50.03.23			3.7			3.7			
LAB:		FERMCO			CORE			CORE			WMCO			IT			
WELL OR BORING NUMBER:		1283			1283			1283			1287			1287			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		25-MAY-93			25-MAY-93			25-MAY-93			02-AUG-89			05-NOV-89			
NORTH COORDINATE:		481703.7			481703.7			481703.7			481634.92			481634.92			
EAST COORDINATE:		1381087.91			1381087.91			1381087.91			1380992.27			1380992.27			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
RADIONUCLIDES																	
URANIUM-238	PCI/L				36.6000	7.1	J	35.3000	6.3	J							
URANIUM, TOTAL	UG/L	93.0000		NV	61.2000	4.3	-	88.0000	6.2	-	84.8000		NV	153.0000	22	J	
URANIUM-234	PCI/L				34.4000	6.7	J	37.0000	6.6	J							
THORIUM-230	PCI/L				0.3000	.2	J	0.2000	.2	R							
RADIUM-226	PCI/L				1.2000	.4	-	1.0000	.3	U							
URANIUM-235/236	PCI/L				3.1000	1.1	J	1.0000	.7	J							
THORIUM-232	PCI/L				0.2000	.3	UJ	0.3000	.2	R							
RADIUM-228	PCI/L				3.5000	1.1	-	3.0000	1	U							
THORIUM-228	PCI/L				0.2000	.6	UJ	0.2000	2.6	R							
TECHNETIUM-99	PCI/L				17.2000	6.1	J	23.5000	7.2	-							
GROSS ALPHA	PCI/L				51.1000	10.7	NV	79.7000	10.5	NV							
GROSS BETA	PCI/L				38.2000	9.5	NV	53.4000	8	NV							

455100

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045928			045929			045930			118404			118406		
TASK:		3.7			3.7			3.7			50.03.23			50.03.23		
LAB:		IT			IT			IT			DATACHEM			DATACHEM		
WELL OR BORING NUMBER:		1287			1287			1287			1287			1287		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		05-NOV-89			06-FEB-90			18-JUN-90			25-MAY-93			25-MAY-93		
NORTH COORDINATE:		481634.92			481634.92			481634.92			481634.92			481634.92		
EAST COORDINATE:		1380992.27			1380992.27			1380992.27			1380992.27			1380992.27		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:														118413		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			DL-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										0.1700		-			
NITRATE	MG/L	0.1000		U	0.1000		UR									
NITRATE/NITRITE	MG/L										0.8900		-			
PHENOLS	MG/L										0.0200		U			
PHOSPHORUS	MG/L										1.4000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										6.0000		-			
TOTAL ORGANIC HALIDES	MG/L										1.3000		-			
INORGANICS																
ALUMINUM	MG/L							0.0885		-	24.9000		-	0.0653		-
ANTIMONY	MG/L							0.0312		-	0.0450		U	0.0450		U
ARSENIC	MG/L							0.0022		J	0.0078		J	0.0010		UJ
BARIUM	MG/L							0.0473		-	0.2060		-	0.0358		-
BERYLLIUM	MG/L							0.0020		U	0.0010		UJ	0.0010		UJ
CADMIUM	MG/L							0.0065		-	0.0030		U	0.0048		U
CALCIUM	MG/L							265.0000		-	434.0000		-	285.0000		-
CHROMIUM	MG/L							0.0482		-	0.0385		U	0.0064		U
COBALT	MG/L							0.0100		U	0.0306		U	0.0064		-
COPPER	MG/L							0.0159		-	0.0450		-	0.0040		U
CYANIDE	MG/L							0.0020		U	0.0100		U	0.0100		U
IRON	MG/L							0.4800		-	51.5000		-	0.1600		-
LEAD	MG/L							0.0020		U	0.0228		R	0.0010		UR
MAGNESIUM	MG/L							63.8000		-	106.0000		-	56.5000		-
MANGANESE	MG/L							1.2400		-	2.8900		-	0.9520		-
MERCURY	MG/L							0.0002		U	0.0002		U	0.0002		U
NICKEL	MG/L							0.0200		U	0.0651		U	0.0221		U
POTASSIUM	MG/L							1.3800		-	5.4900		-	0.9660		-
SELENIUM	MG/L							0.0020		UJ	0.0020		UJ	0.0020		UJ

001548

SAMPLE NUMBER:		045928			045929			045930			118404			118406		
LAB:								IT			DATACHEM			DATACHEM		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L							0.0288		-	0.0030		UJ	0.0030		UJ
SODIUM	MG/L							41.2000		-	32.5000		-	31.4000		-
THALLIUM	MG/L							0.0027		J	0.0010		UJ	0.0010		UJ
VANADIUM	MG/L							0.0198		-	0.0594		-	0.0040		U
ZINC	MG/L							0.0074		U	0.2000		-	0.0155		-
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U						
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		U						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		U						
ALPHA-CHLORDANE	UG/L							0.5000		U						
AROCLOR-1016	UG/L							0.5000		U						
AROCLOR-1221	UG/L							0.5000		U						
AROCLOR-1232	UG/L							0.5000		U						
AROCLOR-1242	UG/L							0.5000		U						
AROCLOR-1248	UG/L							0.5000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		U						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		U						
GAMMA-CHLORDANE	UG/L							0.5000		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							1.0000		U						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		UR						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		UR						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						

SAMPLE NUMBER:		045928			045929			045930			118404			118406		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							50.0000		UR						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		UJ						
2-CHLOROPHENOL	UG/L							10.0000		UR						
2-METHYLNAPHTHALENE	UG/L							10.0000		UR						
2-METHYLPHENOL	UG/L							10.0000		UJ						
2-NITROANILINE	UG/L							50.0000		U						
2-NITROPHENOL	UG/L							10.0000		UR						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		UJ						
3-NITROANILINE	UG/L							50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							50.0000		UR						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		UR						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						
4-METHYLPHENOL	UG/L							10.0000		UR						
4-NITROANILINE	UG/L							50.0000		UR						
4-NITROPHENOL	UG/L							50.0000		U						
ACENAPHTHENE	UG/L							10.0000		U						
ACENAPHTHYLENE	UG/L							10.0000		UJ						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		UR						
BENZO(B)FLUORANTHENE	UG/L							10.0000		UR						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		UR						
BENZO(K)FLUORANTHENE	UG/L							10.0000		UR						
BENZOIC ACID	UG/L							50.0000		UJ						
BENZYL ALCOHOL	UG/L							10.0000		UR						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		UJ						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		UR						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		UR						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		UJ						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		UR						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		UJ						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		UR						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		UR						
DIBENZOFURAN	UG/L							10.0000		UR						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		UR						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		UJ						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1051

SAMPLE NUMBER:		045928			045929			045930			118404			118406		
LAB:*								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		UJ						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		UJ						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		UJ						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		UJ						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		UR						
PENTACHLOROPHENOL	UG/L							50.0000		U						
PHENANTHRENE	UG/L							10.0000		UR						
PHENOL	MG/L							10.0000		UR						
PYRENE	UG/L							10.0000		UR						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							210.0000		R	310.0000		-			
1,1,2,2-TETRACHLOROETHANE	UG/L							5.0000		U	10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L							5.0000		U	10.0000		U			
1,1-DICHLOROETHANE	UG/L							270.0000		R	420.0000		-			
1,1-DICHLOROETHENE	UG/L							46.0000		-	83.0000		-			
1,2-DICHLOROETHANE	UG/L							5.0000		U	10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L							400.0000		R	920.0000		-			
1,2-DICHLOROPROPANE	UG/L							5.0000		U	10.0000		U			
2-BUTANONE	UG/L							10.0000		U	10.0000		U			
2-HEXANONE	UG/L							10.0000		U	10.0000		U			
4-METHYL-2-PENTANONE	UG/L							10.0000		U	10.0000		U			
ACETONE	UG/L							10.0000		U	10.0000		U			
BENZENE	UG/L							5.0000		UJ	10.0000		U			
BROMODICHLOROMETHANE	UG/L							5.0000		U	10.0000		U			
BROMOFORM	UG/L							5.0000		U	10.0000		U			
BROMOMETHANE	UG/L							10.0000		U	10.0000		U			
CARBON DISULFIDE	UG/L							5.0000		U	10.0000		U			
CARBON TETRACHLORIDE	UG/L							5.0000		U	10.0000		U			
CHLOROBENZENE	UG/L							5.0000		UJ	10.0000		U			
CHLOROETHANE	UG/L							10.0000		U	10.0000		U			
CHLOROFORM	UG/L							5.0000		U	10.0000		U			
CHLOROMETHANE	UG/L							10.0000		U	10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L							5.0000		U	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L							5.0000		U	10.0000		U			
ETHYLBENZENE	UG/L							5.0000		UJ	10.0000		U			
METHYLENE CHLORIDE	UG/L							5.0000		U	10.0000		U			
STYRENE	UG/L							5.0000		UJ	10.0000		U			
TETRACHLOROETHENE	UG/L							32.0000		-	310.0000		-			
TOLUENE	UG/L							5.0000		UJ	10.0000		U			

001551

SAMPLE NUMBER:	045928			045929			045930			118404			118406		
LAB:							IT			DATACHEM					
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRANS-1,3-DICHLOROPROPENE UG/L							5.0000		U	10.0000		U			
TRICHLOROETHENE UG/L							320.0000		R	980.0000		-			
VINYL ACETATE UG/L							10.0000		U	10.0000		U			
VINYL CHLORIDE UG/L							10.0000		U	10.0000		U			
XYLENES, TOTAL UG/L							5.0000		UJ	10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118410	118411	118412	118413	118414
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	CORE	CORE	DATACHEM	DATACHEM	FERMCO
WELL OR BORING NUMBER:	1287	1287	1287	1287	1287
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-MAY-93	25-MAY-93	25-MAY-93	25-MAY-93	25-MAY-93
NORTH COORDINATE:	481634.92	481634.92	481634.92	481634.92	481634.92
EAST COORDINATE:	1380992.27	1380992.27	1380992.27	1380992.27	1380992.27
QA TYPE:	NORMAL	NORMAL	DUPLICATE	DUPLICATE	DUPLICATE
QC OF:		118418	118404	118406	
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	DL-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L							0.1800		-						
NITRATE/NITRITE	MG/L							0.3600		-						
PHENOLS	MG/L							0.0200		U						
PHOSPHORUS	MG/L							1.0000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL ORGANIC CARBON	MG/L							6.0000		-						
TOTAL ORGANIC HALIDES	MG/L							1.2000		-						
INORGANICS																
ALUMINUM	MG/L							12.4000		-	0.0140		U			
ANTIMONY	MG/L							0.0450		U	0.0450		U			
ARSENIC	MG/L							0.0048		J	0.0010		UJ			
BARIUM	MG/L							0.1080		-	0.0352		-			
BERYLLIUM	MG/L							0.0010		UJ	0.0010		UJ			
CADMIUM	MG/L							0.0056		U	0.0030		U			
CALCIUM	MG/L							340.0000		-	303.0000		-			
CHROMIUM	MG/L							0.0201		U	0.0040		U			
COBALT	MG/L							0.0135		U	0.0060		U			
COPPER	MG/L							0.0133		U	0.0040		U			
CYANIDE	MG/L							0.0100		U	0.0100		U			
IRON	MG/L							20.5000		-	0.1200		-			
LEAD	MG/L							0.0094		R	0.0010		UR			
MAGNESIUM	MG/L							70.8000		-	56.5000		-			
MANGANESE	MG/L							2.1600		-	0.9040		-			
MERCURY	MG/L							0.0002		U	0.0002		U			
NICKEL	MG/L							0.0315		U	0.0190		U			
POTASSIUM	MG/L							4.0700		-	0.5770		-			
SELENIUM	MG/L							0.0020		UJ	0.0020		UJ			
SILVER	MG/L							0.0030		UJ	0.0030		UJ			

001553

SAMPLE NUMBER:		118410			118411			118412			118413			118414		
LAB:								DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SODIUM	MG/L							31.2000		-	32.0000		-			
THALLIUM	MG/L							0.0010		UJ	0.0010		UJ			
VANADIUM	MG/L							0.0287		U	0.0075		U			
ZINC	MG/L							0.0811		-	0.0060		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	81.1000	9.2	J	76.2000	23.3	J									
URANIUM, TOTAL	UG/L	202.0000	4.1	-	205.0000	14.3	-									
URANIUM-234	PCI/L	78.8000	8.9	J	78.2000	23.9	J									
THORIUM-230	PCI/L	0.8000	.3	J	0.2000	.2	UJ									
RADIUM-226	PCI/L	2.0000	.6	-	1.8000	.5	-									
URANIUM-235/236	PCI/L	7.9000	1.5	J	3.6000	1.8	J									
THORIUM-232	PCI/L	0.5000	.3	J	0.2000	.3	UJ									
THORIUM, TOTAL	UG/L	4.5601	.3	NV												
RADIUM-228	PCI/L	3.0000	1	U	3.0000	1.5	U									
THORIUM-228	PCI/L	0.8000	.4	J	0.2000	.8	UJ									
TECHNETIUM-99	PCI/L	90.3000	13.3	J	15.0000	7.2	U									
GROSS ALPHA	PCI/L	134.0000	6.5	NV	63.6000	6.9	NV							220.0000		UNV
GROSS BETA	PCI/L	139.0000	2.5	NV	71.6000	4.8	NV							330.0000		UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							310.0000		-						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							440.0000		-						
1,1-DICHLOROETHENE	UG/L							79.0000		-						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							960.0000		-						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							0.6000		J						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		UJ						

SAMPLE NUMBER:	118410	118411	118412	118413	118414
LAB:			DATACHEM		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							280.0000		-						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							960.0000		-						
VINYL ACETATE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118415	118416	118417	118418	045286
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	3.7
LAB:	FERMCO	FERMCO	CORE	CORE	IT
WELL OR BORING NUMBER:	1287	1287	1287	1287	1293
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-MAY-93	25-MAY-93	25-MAY-93	25-MAY-93	05-OCT-89
NORTH COORDINATE:	481634.92	481634.92	481634.92	481634.92	481407
EAST COORDINATE:	1380992.27	1380992.27	1380992.27	1380992.27	1380962.16
QA TYPE:	DUPLICATE	DUPLICATE	DUPLICATE	DUPLICATE	NORMAL
QC OF:			118410	118411	
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L							74.5000	10.9	J	73.8000	13	J			
URANIUM, TOTAL	UG/L	220.0000		NV	230.0000		NV	197.0000	13.8	-	200.0000	14	-	29.0000	5	-
URANIUM-234	PCI/L							69.5000	10.7	J	77.8000	13.6	J			
THORIUM-230	PCI/L							0.5000	.3	-	0.5000	.3	J			
RADIUM-226	PCI/L							1.3000	.3	J	1.0000	.2	U			
URANIUM-235/236	PCI/L							8.7000	1.9	J	3.2000	1.3	J			
THORIUM-232	PCI/L							0.4000	.3	-	0.2000	.3	UJ			
THORIUM, TOTAL	UG/L							3.6481	.3	NV	1.8240	.3	NV			
RADIUM-228	PCI/L							3.0000	1.2	U	3.0000	1.4	U			
THORIUM-228	PCI/L							0.8000	.3	-	0.2000	.4	UJ			
TECHNETIUM-99	PCI/L							15.0000	7.9	U	15.9000	9.7	UJ			
GROSS ALPHA	PCI/L										117.0000	12.6	NV			
GROSS BETA	PCI/L										70.7000	7.7	NV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045287	045933	045276	045277	045445
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	FERMCO	IT	IT
WELL OR BORING NUMBER:	1293	1293	1299	1299	1299
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-OCT-89	06-FEB-90	03-AUG-89	18-OCT-89	18-OCT-89
NORTH COORDINATE:	481407	481407	481185.14	481185.14	481185.14
EAST COORDINATE:	1380962.16	1380962.16	1381203.59	1381203.59	1381203.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U	0.1200		R							0.1900		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				43.3000	8	-	37.5000		NV	64.0000	7	-			

001554

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045446	118501	118502	118503	118504
TASK:	3.7	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	IT	DATACHEM	DATACHEM	CORE	FERMCO
WELL OR BORING NUMBER:	1299	1299	1299	1299	1299
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-AUG-90	01-JUN-93	01-JUN-93	01-JUN-93	01-JUN-93
NORTH COORDINATE:	481185.14	481185.14	481185.14	481185.14	481185.14
EAST COORDINATE:	1381203.59	1381203.59	1381203.59	1381203.59	1381203.59
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U												
INORGANICS																
ALUMINUM	MG/L				0.2680		U	0.0140		U						
ANTIMONY	MG/L				0.0450		U	0.0450		U						
ARSENIC	MG/L				0.0010		-	0.0015		-						
BARIUM	MG/L				0.0212		U	0.0217		U						
BERYLLIUM	MG/L				0.0010		U	0.0010		U						
CADMIUM	MG/L				0.0030		U	0.0030		U						
CALCIUM	MG/L				187.0000		-	203.0000		-						
CHROMIUM	MG/L				0.0040		U	0.0040		U						
COBALT	MG/L				0.0060		U	0.0060		U						
COPPER	MG/L				0.0040		U	0.0060		-						
CYANIDE	MG/L							0.0100		U						
IRON	MG/L				1.0200		-	0.3400		U						
LEAD	MG/L				0.0010		UJ	0.0010		UJ						
MAGNESIUM	MG/L				99.8000		-	107.0000		-						
MANGANESE	MG/L				0.1450		-	0.1570		-						
MERCURY	MG/L				0.0002		U	0.0002		U						
NICKEL	MG/L				0.0190		U	0.0190		U						
POTASSIUM	MG/L				2.9400		-	3.5000		-						
SELENIUM	MG/L				0.0020		UJ	0.0020		UJ						
SILVER	MG/L				0.0030		UJ	0.0030		UJ						
SODIUM	MG/L				25.3000		-	26.6000		-						
THALLIUM	MG/L				0.0010		UJ	0.0010		UJ						
VANADIUM	MG/L				0.0040		U	0.0040		U						
ZINC	MG/L				0.0183		-	0.0060		U						

RADIONUCLIDES															
URANIUM-238	PCI/L										2.5000	.5	J		
06/21/94															

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1059

SAMPLE NUMBER:	045446			118501			118502			118503			118504		
LAB:										CORE					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM, TOTAL	UG/L										8.6000	.6	-			
URANIUM-234	PCI/L										3.6000	.6	J			
THORIUM-230	PCI/L										0.6000	.3	J			
RADIUM-226	PCI/L										1.0000	.4	U			
URANIUM-235/236	PCI/L										0.2000	.5	UJ			
THORIUM-232	PCI/L										0.3000	.3	J			
THORIUM, TOTAL	UG/L										2.7361	.3	NV			
RADIUM-228	PCI/L										3.0000	1.2	U			
THORIUM-228	PCI/L										0.4000	.7	J			
TECHNETIUM-99	PCI/L										15.0000	6	UJ			
GROSS ALPHA	PCI/L										11.6000	7.9	UNV	130.0000		UNV
GROSS BETA	PCI/L										14.4000	8.4	UNV	370.0000		UNV

001559

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118505			118506			118507			118735			118736
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23
LAB:		FERMCO			FERMCO			CORE			DATACHEM			CORE
WELL OR BORING NUMBER:		1299			1299			1299			1299			1299
DEPTH:		-			-			-			-			-
DATE COLLECTED:		01-JUN-93			01-JUN-93			02-JUN-93			26-JUL-93			26-JUL-93
NORTH COORDINATE:		481185.14			481185.14			481185.14			481185.14			481185.14
EAST COORDINATE:		1381203.59			1381203.59			1381203.59			1381203.59			1381203.59
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L										0.0357		U			
ANTIMONY	MG/L										0.0450		U			
ARSENIC	MG/L										0.0010		U			
BARIUM	MG/L										0.0183		-			
BERYLLIUM	MG/L										0.0010		U			
CADMIUM	MG/L										0.0030		U			
CALCIUM	MG/L										196.0000		-			
CHROMIUM	MG/L										0.0070		-			
COBALT	MG/L										0.0060		U			
COPPER	MG/L										0.0116		-			
IRON	MG/L										0.0776		-			
LEAD	MG/L										0.0100		UJ			
MAGNESIUM	MG/L										106.0000		-			
MANGANESE	MG/L										0.0493		-			
MERCURY	MG/L										0.0002		U			
NICKEL	MG/L										0.0190		U			
POTASSIUM	MG/L										4.3300		-			
SELENIUM	MG/L										0.0020		UJ			
SILVER	MG/L										0.0030		U			
SODIUM	MG/L										30.0000		-			
THALLIUM	MG/L										0.0010		UJ			
VANADIUM	MG/L										0.0040		U			
ZINC	MG/L										0.0213		J			
RADIONUCLIDES																
URANIUM-238	PCI/L							3.8000	.7	-				2.6000	.8	R
URANIUM, TOTAL	UG/L	9.1000		NV	11.0000		NV	12.2000	.9	-				6.8000		-
URANIUM-234	PCI/L							4.2000	3	-				3.0000		R
THORIUM-230	PCI/L							0.6000	.4	R				0.4000		R

SAMPLE NUMBER:	118505			118506			118507			118735			118736		
LAB:							CORE						CORE		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
RADIUM-226 PCI/L							1.0000	.2	UJ				1.0000	.3	U
URANIUM-235/236 PCI/L							0.2000	.2	U				0.1000	.1	R
THORIUM-232 PCI/L							0.5000	.4	R				1.0000	.2	R
RADIUM-228 PCI/L							3.0000	1.6	U				3.0000	1.1	U
THORIUM-228 PCI/L							0.2000	.3	R				0.2000	.4	R
TECHNETIUM-99 PCI/L							15.0000	7.3	U				15.0000	7.6	U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120343			120343F			120492			120493F			EMGW_SYSGEN_316		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			GWMON		
LAB:		DATACHEM			DATACHEM			DATACHEM			CORE			NET		
WELL OR BORING NUMBER:		1299			1299			1299			1299			1299		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		15-JUN-93			15-JUN-93			29-JUL-93			29-JUL-93			26-OCT-90		
NORTH COORDINATE:		481185.14			481185.14			481185.14			481185.14			481185.14		
EAST COORDINATE:		1381203.59			1381203.59			1381203.59			1381203.59			1381203.59		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	450.0000		-				450.0000		-						
AMMONIA	MG/L	0.0500		U												
CHLORIDE	MG/L	4.4000		-				4.9000		J						
FLUORIDE	MG/L	1.0000		-				0.8000		-						
NITRATE	MG/L							0.0900		J						
NITRATE/NITRITE	MG/L	1.3000		-												
PHENOLS	MG/L	0.0020		U												
PHOSPHORUS	MG/L	0.3500		-												
SULFATE	MG/L	610.0000		-				260.0000		-						
TOTAL KJELDAHL NITROGEN	MG/L	0.2000		-												
TOTAL ORGANIC CARBON	MG/L	3.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0100		U												
TOTAL ORGANIC NITROGEN	MG/L	0.2000		-												
INORGANICS																
ALUMINUM	MG/L							2.4800		-						
ANTIMONY	MG/L							0.0450		U						
ARSENIC	MG/L							0.0034		-						
BARIUM	MG/L							0.0353		-						
BERYLLIUM	MG/L							0.0010		U						
CADMIUM	MG/L							0.0030		U						
CALCIUM	MG/L							234.0000		-						
CHROMIUM	MG/L							0.0165		U						
COBALT	MG/L							0.0060		U						
COPPER	MG/L							0.0066		-						
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L							4.6900		-						
LEAD	MG/L							0.0022		J				0.0060		NV
MAGNESIUM	MG/L							118.0000		-						

SAMPLE NUMBER:		120343		120343F			120492			120493F			EMGW_SYSGEN_316		
LAB:		DATACHEM													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U										0.5000		UNV
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U										0.5000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		UJ												
XYLENES, TOTAL	UG/L	10.0000		U										1.0000		UNV

001563

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045271			045272			045449			045450			120280		
TASK:	3.7			3.7			3.7			3.7			50.03.23		
LAB:	WMCO			IT			IT			IT			DATACHEM		
WELL OR BORING NUMBER:	1301			1301			1301			1301			1301		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	03-AUG-89			18-OCT-89			18-OCT-89			07-FEB-90			25-JUL-93		
NORTH COORDINATE:	481161.4			481161.4			481161.4			481161.4			481161.4		
EAST COORDINATE:	1381649.39			1381649.39			1381649.39			1381649.39			1381649.39		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							0.1000		-	0.1500		J			
INORGANICS																
ALUMINUM	MG/L													0.8820		-
ANTIMONY	MG/L													0.0450		UR
ARSENIC	MG/L													0.0013		-
BARIUM	MG/L													0.0713		-
BERYLLIUM	MG/L													0.0017		U
CADMIUM	MG/L													0.0030		U
CALCIUM	MG/L													113.0000		J
CHROMIUM	MG/L													0.0074		-
COBALT	MG/L													0.0060		U
COPPER	MG/L													0.0074		-
IRON	MG/L													1.7500		J
LEAD	MG/L													0.0018		J
MAGNESIUM	MG/L													71.9000		-
MANGANESE	MG/L													0.1280		J
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.0190		U
POTASSIUM	MG/L													4.8200		-
SELENIUM	MG/L													0.0020		UJ
SILVER	MG/L													0.0071		-
SODIUM	MG/L													16.4000		-
THALLIUM	MG/L													0.0010		U
VANADIUM	MG/L													0.0052		-
ZINC	MG/L													0.0279		-
RADIONUCLIDES																

URANIUM, TOTAL		UG/L	53.4000	NV	35.0000	5	-			

001565

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120281			120394			120396			120494			120494F
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23
LAB:		CORE			TCT			CORE			DATACHEM			DATACHEM
WELL OR BORING NUMBER:		1301			1301			1301			1301			1301
DEPTH:		-			-			-			-			-
DATE COLLECTED:		25-JUL-93			10-JUL-93			10-JUL-93			29-JUL-93			29-JUL-93
NORTH COORDINATE:		481161.4			481161.4			481161.4			481161.4			481161.4
EAST COORDINATE:		1381649.39			1381649.39			1381649.39			1381649.39			1381649.39
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				444.0000		-				410.0000		-			
AMMONIA	MG/L				0.0490		-									
CHLORIDE	MG/L				28.1000		-									
FLUORIDE	MG/L				0.7200		-									
NITRATE/NITRITE	MG/L				0.0522		-									
PHOSPHATE	MG/L				0.1550		R									
SULFATE	MG/L				135.0000		-									
TOTAL KJELDAHL NITROGEN	MG/L				0.2000		U									
TOTAL ORGANIC NITROGEN	MG/L				0.2000		U									
INORGANICS																
ALUMINUM	MG/L				0.8330		-							0.0311		U
ANTIMONY	MG/L				0.0140		UJ							0.0450		U
ARSENIC	MG/L				0.0020		U							0.0010		U
BARIUM	MG/L				0.0632		-							0.0663		-
BERYLLIUM	MG/L				0.0050		UR							0.0010		U
CADMIUM	MG/L				0.0050		U							0.0030		U
CALCIUM	MG/L				125.0000		-							119.0000		-
CHROMIUM	MG/L				0.0060		UJ							0.0059		U
COBALT	MG/L				0.0170		U							0.0060		U
COPPER	MG/L				0.0090		U							0.0067		-
CYANIDE	MG/L										0.0100		U			
IRON	MG/L				1.4700		-							0.0271		U
LEAD	MG/L				0.0026		-							0.0010		U
MAGNESIUM	MG/L				79.5000		-							77.8000		-
MANGANESE	MG/L				0.1610		-							0.0033		U
MERCURY	MG/L				0.0001		U							0.0002		U
MOLYBDENUM	MG/L				0.0170		UJ									
NICKEL	MG/L				0.0180		UJ							0.0190		U

001566

9204

SAMPLE NUMBER:	120281			120394		120396			120494			120494F		
LAB:				TCT								DATACHEM		
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
POTASSIUM	MG/L				3.2500		-							3.0200		-
SELENIUM	MG/L				0.0050		UJ							0.0020		U
SILICON	MG/L				6.9900		-									
SILVER	MG/L				0.0020		U							0.0030		U
SODIUM	MG/L				17.4000		-							17.8000		-
THALLIUM	MG/L				0.0010		UJ							0.0010		U
VANADIUM	MG/L				0.0240		U							0.0040		U
ZINC	MG/L				0.0100		J							0.0060		U
RADIONUCLIDES																
URANIUM-238	PCI/L	4.1000	.7	J				4.8000	.8	R						
URANIUM, TOTAL	UG/L	11.9000	.8	-				13.6000	1	-						
URANIUM-234	PCI/L	4.4000	1	J				5.0000	.8	R						
THORIUM-230	PCI/L	0.5000	.3	R				0.8000	.4	R						
RADIUM-226	PCI/L	1.0000	.4	U				1.4000	.4	-						
URANIUM-235/236	PCI/L	0.3000	.5	J				0.4000	.3	R						
THORIUM-232	PCI/L	0.1000	.2	R				0.6000	.3	R						
RADIUM-228	PCI/L	3.0000	1.2	U				3.0000	1	U						
THORIUM-228	PCI/L	0.2000	.2	R				0.8000	.4	R						
TECHNETIUM-99	PCI/L							15.0000	6.9	U						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHENE	UG/L				10.0000		U									
1,2-DICHLOROETHANE	UG/L				10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U									
1,2-DICHLOROPROPANE	UG/L				10.0000		U									
2-BUTANONE	UG/L				10.0000		U									
2-HEXANONE	UG/L				10.0000		U									
4-METHYL-2-PENTANONE	UG/L				10.0000		U									
ACETONE	UG/L				11.0000		UJ									
BENZENE	UG/L				10.0000		U									
BROMODICHLOROMETHANE	UG/L				10.0000		U									
BROMOFORM	UG/L				10.0000		U									
BROMOMETHANE	UG/L				10.0000		U									
CARBON DISULFIDE	UG/L				10.0000		U									
CARBON TETRACHLORIDE	UG/L				10.0000		U									
CHLOROBENZENE	UG/L				10.0000		U									
CHLOROETHANE	UG/L				10.0000		U									
CHLOROFORM	UG/L				10.0000		U									

SAMPLE NUMBER:		120281			120394			120396			120494			120494F		
LAB:					TCT											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROMETHANE	UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
TRICHLOROETHENE	UG/L				10.0000		U									
VINYL ACETATE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046818	046819	EMGW_SYSGEN_317	046716	046717
TASK:	3.7	3.7	GWMON	3.7	3.7
LAB:	IT	IT	NET	IT	IT
WELL OR BORING NUMBER:	1304	1304	1304	1317	1317
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-AUG-90	22-AUG-90	26-OCT-90	19-JAN-90	01-AUG-90
NORTH COORDINATE:	481099.7	481099.7	481099.7	480947.54	480947.54
EAST COORDINATE:	1380871	1380871	1380871	1381246.91	1381246.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.5600		-				0.1000		U			
INORGANICS																
LEAD	MG/L							0.0100		NV						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	292.00004		-							265.0000	29	-	15.4000	2.5	-
VOLATILES																
BENZENE	UG/L							0.5000		UNV						
ETHYLBENZENE	UG/L							0.5000		UNV						
TOLUENE	UG/L							0.5000		UNV						
XYLENES, TOTAL	UG/L							1.0000		UNV						

001569

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046718	046719	046720	118494	118495
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	CORE	CORE
WELL OR BORING NUMBER:	1317	1317	1317	1317	1317
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-AUG-90	01-AUG-90	01-AUG-90	28-MAY-93	28-MAY-93
NORTH COORDINATE:	480947.54	480947.54	480947.54	480947.54	480947.54
EAST COORDINATE:	1381246.91	1381246.91	1381246.91	1381246.91	1381246.91
QA TYPE:	NORMAL	DUPLICATE	DUPLICATE	NORMAL	NORMAL
QC OF:		046717	046718		
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U				0.1000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L										2.2000	.8	R	0.5000	.5	J
URANIUM, TOTAL	UG/L				2.8100	.3	-				4.2000	.3	-	3.5000	.2	-
URANIUM-234	PCI/L										2.4000	.5	R	2.0000	.5	J
THORIUM-230	PCI/L										1.0000	.4	J	0.2000	.2	R
RADIUM-226	PCI/L										2.6000	.6	J	1.0000	.3	U
URANIUM-235/236	PCI/L										0.4000	.2	R	0.2000	.5	UJ
THORIUM-232	PCI/L										1.1000	.4	J	0.3000	.2	R
THORIUM, TOTAL	UG/L										10.0321	.4	NV			
RADIUM-228	PCI/L										3.7000	1.4	-	3.0000	1.1	U
THORIUM-228	PCI/L										0.7000	.7	J	0.2000	2.6	R
TECHNETIUM-99	PCI/L										27.2000	8.8	J	15.0000	7.4	U
GROSS ALPHA	PCI/L										46.7000	16.5	NV	4.2000	2.6	NV
GROSS BETA	PCI/L										68.1000	18.5	NV	4.9000	2.8	UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118496	118497	118731	118732	120345
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	DATACHEM	FERMCO	DATACHEM	CORE	DATACHEM
WELL OR BORING NUMBER:	1317	1317	1317	1317	1317
DEPTH:	-	-	-	-	-
DATE COLLECTED:	02-JUN-93	02-JUN-93	24-JUL-93	24-JUL-93	15-JUN-93
NORTH COORDINATE:	480947.54	480947.54	480947.54	480947.54	480947.54
EAST COORDINATE:	1381246.91	1381246.91	1381246.91	1381246.91	1381246.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													380.0000		-
AMMONIA	MG/L													0.1800		-
CHLORIDE	MG/L													70.0000		-
FLUORIDE	MG/L													1.1000		-
NITRATE/NITRITE	MG/L													0.5700		-
PHENOLS	MG/L													0.0020		U
PHOSPHORUS	MG/L													0.3300		-
SULFATE	MG/L													140.0000		-
TOTAL KJELDAHL NITROGEN	MG/L													0.6000		-
TOTAL ORGANIC CARBON	MG/L													2.0000		-
TOTAL ORGANIC HALIDES	MG/L													0.0100		U
TOTAL ORGANIC NITROGEN	MG/L													0.4200		-
INORGANICS																
ALUMINUM	MG/L	0.0140		U				0.0911		U				59.9000		-
ANTIMONY	MG/L	0.0450		U				0.0450		U				0.0157		U
ARSENIC	MG/L	0.0010		U				0.0010		U				0.0136		-
BARIUM	MG/L	0.0768		-				0.0754		-				0.4240		-
BERYLLIUM	MG/L	0.0010		U				0.0010		U				0.0035		U
CADMIUM	MG/L	0.0030		U				0.0030		U				0.0012		U
CALCIUM	MG/L	124.0000		-				121.0000		-				442.0000		-
CHROMIUM	MG/L	0.0051		-				0.0040		U				0.0858		-
COBALT	MG/L	0.0060		U				0.0060		U				0.0503		-
COPPER	MG/L	0.0040		U				0.0050		-				0.0887		-
CYANIDE	MG/L	0.0100		U										0.0100		U
IRON	MG/L	0.0247		U				0.1780		-				102.0000		-
LEAD	MG/L	0.0010		U				0.0010		UJ				0.0338		J
MAGNESIUM	MG/L	65.9000		-				64.4000		-				173.0000		-
MANGANESE	MG/L	0.0259		-				0.0131		-				2.0400		-

001571

SAMPLE NUMBER:		118496			118497			118731			118732			120345		
LAB:		DATACHEM						DATACHEM						DATACHEM		
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U				0.0002		U				0.0002		U
NICKEL	MG/L	0.0190		U				0.0190		U				0.1010		-
POTASSIUM	MG/L	2.5200		-				3.1800		-				18.4000		-
SELENIUM	MG/L	0.0020		UJ				0.0020		UJ				0.0100		UJ
SILVER	MG/L	0.0030		UJ				0.0030		U				0.0029		UJ
SODIUM	MG/L	22.1000		-				22.8000		-				25.9000		-
THALLIUM	MG/L	0.0010		UJ				0.0010		UJ				0.0010		U
VANADIUM	MG/L	0.0040		U				0.0040		U				0.1020		-
ZINC	MG/L	0.0060		U				0.0336		J				0.2590		J
RADIONUCLIDES																
URANIUM-238	PCI/L										5.7000	.8	R			
URANIUM, TOTAL	UG/L				2.5000		NV				9.2000	.6	J			
URANIUM-234	PCI/L										6.3000	1.1	R			
THORIUM-230	PCI/L										0.5000	.3	J			
RADIUM-226	PCI/L										1.0000	.4	U			
URANIUM-235/236	PCI/L										0.5000	.5	R			
THORIUM-232	PCI/L										0.3000	.2	J			
THORIUM, TOTAL	UG/L										2.7361	.2	NV			
RADIUM-228	PCI/L										3.0000	1	U			
THORIUM-228	PCI/L										0.7000	.3	J			
TECHNETIUM-99	PCI/L										18.1000	7.9	-			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		U
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		U
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U

SAMPLE NUMBER:	118496			118497			118731			118732			120345		
LAB:													DATACHEM		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
CHLOROETHANE UG/L													10.0000		U
CHLOROFORM UG/L													10.0000		U
CHLOROMETHANE UG/L													10.0000		UJ
CIS-1,3-DICHLOROPROPENE UG/L													10.0000		U
DIBROMOCHLOROMETHANE UG/L													10.0000		U
ETHYLBENZENE UG/L													10.0000		U
METHYLENE CHLORIDE UG/L													10.0000		U
STYRENE UG/L													10.0000		U
TETRACHLOROETHENE UG/L													10.0000		U
TOLUENE UG/L													10.0000		U
TRANS-1,3-DICHLOROPROPENE UG/L													10.0000		U
TRICHLOROETHENE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		UJ
XYLENES, TOTAL UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120345F			120495			120793			EMGW_SYSGEN_318			046704		
TASK:		50.03.23			50.03.23			50.03.23			GWMON			3.7		
LAB:		DATACHEM			DATACHEM			FERMCO			NET			IT		
WELL OR BORING NUMBER:		1317			1317			1317			1317			1318		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		15-JUN-93			29-JUL-93			26-JUL-93			29-OCT-90			17-JAN-90		
NORTH COORDINATE:		480947.54			480947.54			480947.54			480947.54			480941.25		
EAST COORDINATE:		1381246.91			1381246.91			1381246.91			1381246.91			1381434.52		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				400.0000		-									
NITRATE	MG/L													0.3300		-
NITRATE/NITRITE	MG/L				0.1500		J									
INORGANICS																
ALUMINUM	MG/L	0.0600		U												
ANTIMONY	MG/L	0.0157		U												
ARSENIC	MG/L	0.0020		U												
BARIUM	MG/L	0.0716		-												
BERYLLIUM	MG/L	0.0003		U												
CADMIUM	MG/L	0.0012		U												
CALCIUM	MG/L	136.0000		-												
CHROMIUM	MG/L	0.0033		U												
COBALT	MG/L	0.0038		U												
COPPER	MG/L	0.0053		-												
CYANIDE	MG/L	0.0100		U												
IRON	MG/L	0.0151		U												
LEAD	MG/L	0.0010		U							0.0930		NV			
MAGNESIUM	MG/L	71.9000		-												
MANGANESE	MG/L	0.0379		-												
MERCURY	MG/L	0.0002		U												
NICKEL	MG/L	0.0070		U												
POTASSIUM	MG/L	3.7400		-												
SELENIUM	MG/L	0.0010		UJ												
SILVER	MG/L	0.0029		UJ												
SODIUM	MG/L	25.1000		-												
THALLIUM	MG/L	0.0010		UJ												
VANADIUM	MG/L	0.0029		U												
ZINC	MG/L	0.0040		U												

001574

5704

SAMPLE NUMBER:	120345F	120495	120793	EMGW_SYSGEN_318	046704
LAB:	DATACHEM				
SUFFIX/FILTERFLAG:	NONE-FIL	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L													15.6000	1.7	J
GROSS ALPHA	PCI/L							230.0000		UNV						
GROSS BETA	PCI/L							330.0000		UNV						
VOLATILES																
BENZENE	UG/L										0.5000		UNV			
ETHYLBENZENE	UG/L										0.5000		UNV			
TOLUENE	UG/L										0.5000		UNV			
XYLENES, TOTAL	UG/L										1.0000		UNV			

001525

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		046705			046706			046707			046708			EMGW_SYSGEN_319		
TASK:		3.7			3.7			3.7			3.7			GWMON		
LAB:		IT			IT			IT			IT			NET		
WELL OR BORING NUMBER:		1318			1318			1318			1318			1318		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		13-AUG-90			13-AUG-90			13-AUG-90			13-AUG-90			29-OCT-90		
NORTH COORDINATE:		480941.25			480941.25			480941.25			480941.25			480941.25		
EAST COORDINATE:		1381434.52			1381434.52			1381434.52			1381434.52			1381434.52		
QA TYPE:		NORMAL			NORMAL			DUPLICATE			DUPLICATE			NORMAL		
QC OF:								046705			046706					
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1500		-				0.1800		-			
INORGANICS																
LEAD	MG/L													0.0100		NV
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	1.0000		U				1.0000		U						
VOLATILES																
BENZENE	UG/L													0.6800		NV
ETHYLBENZENE	UG/L													0.5000		UNV
TOLUENE	UG/L													2.6700		NV
XYLENES, TOTAL	UG/L													1.0000		UNV

001576

9204

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_319D	045968	046686	046687	046688
TASK:	GWMON	3.7	3.7	3.7	3.7
LAB:	NET	IT	IT	IT	IT
WELL OR BORING NUMBER:	1318	1324	1324	1324	1324
DEPTH:	-	-	-	-	-
DATE COLLECTED:	29-OCT-90	04-APR-90	17-JAN-90	20-APR-90	29-JUN-90
NORTH COORDINATE:	480941.25	480828.51	480828.51	480828.51	480828.51
EAST COORDINATE:	1381434.52	1381681.83	1381681.83	1381681.83	1381681.83
QA TYPE:	DUPLICATE	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:	EMGW_SYSGEN_319				
SUFFIX/FILTERFLAG:	NONE-UNF	DL-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							51.1000		-				39.3000		-
INORGANICS																
ALUMINUM	MG/L				8.1700		-									
ANTIMONY	MG/L				0.2840		-									
ARSENIC	MG/L				0.0020		U									
BARIUM	MG/L				0.1310		-									
BERYLLIUM	MG/L				0.0755		-									
CADMIUM	MG/L				0.0376		-									
CALCIUM	MG/L				204.0000		-									
CHROMIUM	MG/L				2.0800		-									
COBALT	MG/L				0.2040		-									
COPPER	MG/L				0.4090		-									
CYANIDE	MG/L				0.0123		-									
IRON	MG/L				0.5800		-									
LEAD	MG/L	0.0050		NV	0.0020		U									
MAGNESIUM	MG/L				56.4000		-									
MANGANESE	MG/L				1.0200		-									
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.1400		-									
NICKEL	MG/L				0.2600		-									
POTASSIUM	MG/L				9.2200		-									
SELENIUM	MG/L				0.0020		U									
SILVER	MG/L				0.8470		-									
SODIUM	MG/L				74.3000		-									
THALLIUM	MG/L				0.0020		U									
VANADIUM	MG/L				0.6910		-									
ZINC	MG/L				0.0379		UJ									

001577

PESTICIDES

4,4'-DDD 06/21/94	UG/L	0.1000	U				0.2000	U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1079

SAMPLE NUMBER:	EMGW_SYSGEN_319D	045968		046686			046687			046688		
LAB:		IT					IT					
SUFFIX/FILTERFLAG:	-	NONE-UNF		-			DL-UNF			-		
	RESULT SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES														
4,4'-DDE	UG/L		0.1000		U				0.2000		U			
4,4'-DDT	UG/L		0.1000		U				0.2000		U			
ALDRIN	UG/L		0.0500		U				0.1000		U			
ALPHA-BHC	UG/L		0.0500		U				0.1000		U			
ALPHA-CHLORDANE	UG/L		1.0000		UR				1.0000		U			
AROCLOR-1016	UG/L		1.0000		UR				1.0000		U			
AROCLOR-1221	UG/L		1.0000		UR				1.0000		U			
AROCLOR-1232	UG/L		0.5000		U				1.0000		U			
AROCLOR-1242	UG/L		0.5000		U				1.0000		U			
AROCLOR-1248	UG/L		0.5000		U				1.0000		U			
AROCLOR-1254	UG/L		1.0000		U				2.0000		U			
AROCLOR-1260	UG/L		2.0000		UR				2.0000		U			
BETA-BHC	UG/L		0.0500		U				0.1000		U			
DELTA-BHC	UG/L		0.0500		U				0.1000		U			
DIELDRIN	UG/L		0.1000		U				0.2000		U			
ENDOSULFAN II	UG/L		0.2000		UR				0.2000		U			
ENDOSULFAN SULFATE	UG/L		0.2000		UR				0.2000		U			
ENDOSULFAN-I	UG/L		0.1000		UR				0.1000		U			
ENDRIN	UG/L		0.1000		U				0.2000		U			
ENDRIN KETONE	UG/L		0.2000		UR				0.2000		U			
GAMMA-BHC (LINDANE)	UG/L		0.1000		UR				0.1000		U			
GAMMA-CHLORDANE	UG/L		0.5000		U				1.0000		U			
HEPTACHLOR	UG/L		0.1000		UR				0.1000		U			
HEPTACHLOR EPOXIDE	UG/L		0.1000		UR				0.1000		U			
METHOXYCHLOR	UG/L		0.5000		U				1.0000		U			
TOXAPHENE	UG/L		2.0000		UR				2.0000		U			
RADIONUCLIDES														
URANIUM, TOTAL	UG/L					696000.000	108000	-						
SEMIVOLATILES														
1,2,4-TRICHLOROBENZENE	UG/L		10.0000		U				10.0000		UJ			
1,2-DICHLOROBENZENE	UG/L		20.0000		UR				10.0000		UJ			
1,3-DICHLOROBENZENE	UG/L		20.0000		UR				10.0000		UJ			
1,4-DICHLOROBENZENE	UG/L		10.0000		U				10.0000		UJ			
2,4,5-TRICHLOROPHENOL	UG/L		50.0000		UR				50.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L		20.0000		UR				10.0000		U			
2,4-DICHLOROPHENOL	UG/L		10.0000		UR				10.0000		U			
2,4-DIMETHYLPHENOL	UG/L		20.0000		UR				10.0000		U			

001578

5704

SAMPLE NUMBER:	EMGW_SYSGEN_319D	045968	046686	046687	046688
LAB:		IT		IT	
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES													
2,4-DINITROPHENOL	UG/L				50.0000		UR				50.0000		UJ			
2,4-DINITROTOLUENE	UG/L				20.0000		UNV				10.0000		UJ			
2,6-DINITROTOLUENE	UG/L				5.0000		J				4.0000		J			
2-CHLORONAPHTHALENE	UG/L				10.0000		U				10.0000		UJ			
2-CHLOROPHENOL	UG/L				20.0000		UR				10.0000		U			
2-METHYLNAPHTHALENE	UG/L				20.0000		UR				10.0000		UJ			
2-METHYLPHENOL	UG/L				10.0000		UR				10.0000		U			
2-NITROANILINE	UG/L				100.0000		UR				50.0000		UJ			
2-NITROPHENOL	UG/L				10.0000		UR				10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L				40.0000		UJ				20.0000		UJ			
3-NITROANILINE	UG/L				50.0000		U				50.0000		UJ			
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UR				50.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U				10.0000		UJ			
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		UR				10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L				20.0000		UR				10.0000		UJ			
4-METHYLPHENOL	UG/L				10.0000		UR				10.0000		U			
4-NITROANILINE	UG/L				50.0000		U				50.0000		UJ			
4-NITROPHENOL	UG/L				50.0000		UR				3.0000		J			
ACENAPHTHENE	UG/L				10.0000		U				10.0000		UJ			
ACENAPHTHYLENE	UG/L				20.0000		UR				10.0000		UJ			
ANTHRACENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(A)ANTHRACENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(A)PYRENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(B)FLUORANTHENE	UG/L				20.0000		UR				10.0000		UJ			
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(K)FLUORANTHENE	UG/L				10.0000		UJ				10.0000		UJ			
BENZOIC ACID	UG/L				50.0000		UR				2.0000		J			
BENZYL ALCOHOL	UG/L				10.0000		UR				10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE	UG/L				20.0000		UR				10.0000		UJ			
BIS(2-CHLOROETHYL)ETHER	UG/L				20.0000		UR				10.0000		UJ			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				20.0000		UR				10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				20.0000		UNV				10.0000		UJ			
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
CHRYSENE	UG/L				10.0000		U				10.0000		UJ			
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
DI-N-OCTYL PHTHALATE	UG/L				20.0000		UJ				10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L				20.0000		UR				10.0000		UJ			
DIBENZOFURAN	UG/L				20.0000		UR				10.0000		UJ			
DIETHYL PHTHALATE	UG/L				20.0000		UNV				10.0000		UJ			
DIMETHYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
FLUORANTHENE	UG/L				10.0000		UJ				10.0000		UJ			
FLUORENE	UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROBENZENE	UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROBUTADIENE	UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UJ				10.0000		UJ			

001579

SAMPLE NUMBER:		EMGW_SYSGEN_319D			045968			046686			046687			046688		
LAB:					IT						IT					
SUFFIX/FILTERFLAG:		-			R-UNF			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
HEXACHLOROETHANE	UG/L				20.0000		UR				10.0000		UJ			
INDENO(1,2,3-CD)PYRENE	UG/L				20.0000		UNV				10.0000		UJ			
ISOPHORONE	UG/L				20.0000		UR				10.0000		UJ			
N-NITROSO-DI-N-PROPYLAMINE	UG/L				20.0000		UR				10.0000		UJ			
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U				10.0000		UJ			
NAPHTHALENE	UG/L				10.0000		U				10.0000		UJ			
NITROBENZENE	UG/L				10.0000		U				10.0000		UJ			
P-CHLOROANILINE	UG/L				20.0000		UR				10.0000		UJ			
PENTACHLOROPHENOL	UG/L				100.0000		UNV				50.0000		U			
PHENANTHRENE	UG/L				10.0000		U				10.0000		UJ			
PHENOL	MG/L				20.0000		UR				10.0000		U			
PYRENE	UG/L				20.0000		UR				10.0000		UJ			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				110.0000		NV									
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		UJ									
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U									
1,1-DICHLOROETHANE	UG/L				7.0000		-									
1,1-DICHLOROETHENE	UG/L				120.0000		R									
1,2-DICHLOROETHANE	UG/L				5.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				14.0000		-									
1,2-DICHLOROPROPANE	UG/L				5.0000		U									
2-BUTANONE	UG/L				680.0000		R									
2-HEXANONE	UG/L				1000.0000		UR									
4-METHYL-2-PENTANONE	UG/L				1000.0000		UR									
ACETONE	UG/L				10.0000		U									
BENZENE	UG/L	0.6500		NV	500.0000		UNV									
BROMODICHLOROMETHANE	UG/L				500.0000		UR									
BROMOFORM	UG/L				5.0000		U									
BROMOMETHANE	UG/L				10.0000		UJ									
CARBON DISULFIDE	UG/L				500.0000		UR									
CARBON TETRACHLORIDE	UG/L				5.0000		U									
CHLOROBENZENE	UG/L				500.0000		UR									
CHLOROETHANE	UG/L				1000.0000		UR									
CHLOROFORM	UG/L				5.0000		U									
CHLOROMETHANE	UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE	UG/L				500.0000		U									
DIBROMOCHLOROMETHANE	UG/L				5.0000		U									
ETHYLBENZENE	UG/L	0.5000		UNV	500.0000		UR									
METHYLENE CHLORIDE	UG/L				5.0000		U									
STYRENE	UG/L				500.0000		UR									
TETRACHLOROETHENE	UG/L				260.0000		J									
TOLUENE	UG/L	2.5400		NV	500.0000		UR									
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		UJ									

SAMPLE NUMBER:		EMGW_SYSGEN_319D			045968			046686			046687			046688		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROETHENE	UG/L				9500.0000		R									
VINYL ACETATE	UG/L				10.0000		UJ									
VINYL CHLORIDE	UG/L				1000.0000		UR									
XYLENES, TOTAL	UG/L	1.0000		UNV	5.0000		UJ									

001581

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066901	120399	120399F	120501	120501F
TASK:	3.7	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	IT	TCT	TCT	CORE	CORE
WELL OR BORING NUMBER:	1324	1324	1324	1324	1324
DEPTH:	-6	-	-	-	-
DATE COLLECTED:	25-JUL-90	10-JUL-93	10-JUL-93	10-JUL-93	10-JUL-93
NORTH COORDINATE:	480828.51	480828.51	480828.51	480828.51	480828.51
EAST COORDINATE:	1381681.83	1381681.83	1381681.83	1381681.83	1381681.83
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	DL-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL

		066901			120399			120399F			120501			120501F		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				670.0000		-									
AMMONIA	MG/L				5.3300		-									
CHLORIDE	MG/L				66.6000		-									
FLUORIDE	MG/L				6.8000		-									
NITRITE, AS NITROGEN	MG/L				9.9400		-									
PHENOLS	MG/L				0.0050		U									
PHOSPHATE	MG/L				0.0778		R									
SULFATE	MG/L				71.2000		-									
SULFIDE	MG/L				1.0000		U									
TOTAL KJELDAHL NITROGEN	MG/L				6.5800		-									
TOTAL ORGANIC CARBON	MG/L				20.2000		J									
TOTAL ORGANIC HALIDES	MG/L				0.1990		J									
TOTAL ORGANIC NITROGEN	MG/L				1.2500		-									
INORGANICS																
ALUMINUM	MG/L	8.5700		J	2.1800		-	0.0400		U						
ANTIMONY	MG/L	0.3100		-	0.0140		U	0.0140		U						
ARSENIC	MG/L	0.0020		UJ	0.0073		-	0.0076		-						
BARIUM	MG/L	0.1740		-	0.0914		-	0.0785		-						
BERYLLIUM	MG/L	0.0679		-	0.0068		R	0.0050		UR						
CADMIUM	MG/L	0.0389		-	0.0050		U	0.0050		U						
CALCIUM	MG/L	211.0000		-	207.0000		-	180.0000		-						
CHROMIUM	MG/L	2.1400		J	0.1400		-	0.1210		-						
COBALT	MG/L	0.2060		-	0.0200		-	0.0170		-						
COPPER	MG/L	0.3600		-	0.3640		-	0.2980		-						
CYANIDE	MG/L	0.0085		J	0.0132		-	0.0138		-						
IRON	MG/L	0.5690		J	3.5400		-	0.0220		U						
LEAD	MG/L	0.0020		UJ	0.0039		-	0.0010		U						
MAGNESIUM	MG/L	54.0000		-	41.5000		-	34.5000		-						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		066901			120399			120399F			120501			120501F		
LAB:		IT			TCT			TCT			-			-		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL								
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	1.0100		-	1.1000		-	0.9020		-						
MERCURY	MG/L	0.0002		U	0.0001		U	0.0001		U						
MOLYBDENUM	MG/L				0.0170		UJ	0.0300		J						
NICKEL	MG/L	0.2640		-	0.0403		J	0.0267		J						
POTASSIUM	MG/L	7.1100		-	12.0000		-	10.3000		-						
SELENIUM	MG/L	0.0020		UJ	0.0050		UJ	0.0050		UJ						
SILICON	MG/L				10.5000		-	8.6400		-						
SILVER	MG/L	0.8010		J	0.0020		U	0.0020		U						
SODIUM	MG/L	84.0000		-	109.0000		-	104.0000		-						
THALLIUM	MG/L	0.0020		UJ	0.0010		UJ	0.0010		UJ						
VANADIUM	MG/L	0.6490		-	0.2440		-	0.2150		-						
ZINC	MG/L	0.0309		-	0.0180		J	0.0060		UJ						
PESTICIDES																
4,4'-DDD	UG/L	0.5000		U												
4,4'-DDE	UG/L	0.5000		U												
4,4'-DDT	UG/L	0.5000		U												
ALDRIN	UG/L	0.2500		U												
ALPHA-BHC	UG/L	0.2500		U												
ALPHA-CHLORDANE	UG/L	2.5000		U												
AROCLOR-1016	UG/L	2.5000		U												
AROCLOR-1221	UG/L	2.5000		U												
AROCLOR-1232	UG/L	2.5000		U												
AROCLOR-1242	UG/L	2.5000		U												
AROCLOR-1248	UG/L	2.5000		U												
AROCLOR-1254	UG/L	5.0000		U												
AROCLOR-1260	UG/L	5.0000		U												
BETA-BHC	UG/L	0.2500		U												
DELTA-BHC	UG/L	0.2500		U												
DIELDRIN	UG/L	0.5000		U												
ENDOSULFAN II	UG/L	0.5000		U												
ENDOSULFAN SULFATE	UG/L	0.5000		U												
ENDOSULFAN-I	UG/L	0.2500		U												
ENDRIN	UG/L	0.5000		U												
ENDRIN KETONE	UG/L	0.5000		U												
GAMMA-BHC (LINDANE)	UG/L	0.2500		U												
GAMMA-CHLORDANE	UG/L	2.5000		U												
HEPTACHLOR	UG/L	0.2500		U												
HEPTACHLOR EPOXIDE	UG/L	0.2500		U												
METHOXYCHLOR	UG/L	2.5000		U												
TOXAPHENE	UG/L	5.0000		U												
RADIONUCLIDES																

SAMPLE NUMBER:		066901		120399		120399F		120501		120501F	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
SEMIVOLATILES											
ACENAPHTHENE	UG/L	10.0000	U								
ACENAPHTHYLENE	UG/L	10.0000	U								
ANTHRACENE	UG/L	10.0000	U								
BENZO(A)ANTHRACENE	UG/L	10.0000	U								
BENZO(A)PYRENE	UG/L	10.0000	U								
BENZO(B)FLUORANTHENE	UG/L	10.0000	U								
BENZO(G,H,I)PERYLENE	UG/L	10.0000	U								
BENZO(K)FLUORANTHENE	UG/L	10.0000	U								
BENZOIC ACID	UG/L	50.0000	U								
BENZYL ALCOHOL	UG/L	10.0000	U								
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000	U								
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	U								
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	UR								
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000	U								
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U								
CHRYSENE	UG/L	10.0000	U								
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U								
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U								
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	UJ								
DIBENZOFURAN	UG/L	10.0000	U								
DIETHYL PHTHALATE	UG/L	10.0000	U								
DIMETHYL PHTHALATE	UG/L	10.0000	U								
FLUORANTHENE	UG/L	10.0000	U								
FLUORENE	UG/L	10.0000	U								
HEXACHLOROBENZENE	UG/L	10.0000	U								
HEXACHLOROBUTADIENE	UG/L	10.0000	U								
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U								
HEXACHLOROETHANE	UG/L	10.0000	UJ								
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	UJ								
ISOPHORONE	UG/L	10.0000	UJ								
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	UR								
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U								
NAPHTHALENE	UG/L	10.0000	U								
NITROBENZENE	UG/L	10.0000	UR								
P-CHLOROANILINE	UG/L	10.0000	U								
PENTACHLOROPHENOL	UG/L	50.0000	U								
PHENANTHRENE	UG/L	10.0000	U								
PHENOL	MG/L	10.0000	U								
PYRENE	UG/L	10.0000	U								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	500.0000	UR	39.0000	-						
1,1,2,2-TETRACHLOROETHANE	UG/L	500.0000	UR	10.0000	U						
1,1,2-TRICHLOROETHANE	UG/L	500.0000	UR	10.0000	U						

SAMPLE NUMBER:		066901		120399		120399F			120501			120501F		
LAB:		IT		TCT										
SUFFIX/FILTERFLAG:		DL-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES														
1,1-DICHLOROETHANE	UG/L	500.0000	UR	3.0000	J									
1,1-DICHLOROETHENE	UG/L	500.0000	UR	7.0000	J									
1,2-DICHLOROETHANE	UG/L	500.0000	UR	10.0000	U									
1,2-DICHLOROETHENE (TOTAL)	UG/L	500.0000	UR	35.0000	-									
1,2-DICHLOROPROPANE	UG/L	500.0000	UR	10.0000	U									
2-BUTANONE	UG/L	360.0000	R	10.0000	UJ									
2-HEXANONE	UG/L	1000.0000	UR	10.0000	UJ									
4-METHYL-2-PENTANONE	UG/L	1000.0000	UR	10.0000	UJ									
ACETONE	UG/L	150.0000	R	10.0000	UJ									
BENZENE	UG/L	500.0000	UR	10.0000	U									
BROMODICHLOROMETHANE	UG/L	500.0000	UR	10.0000	U									
BROMOFORM	UG/L	500.0000	UR	10.0000	UJ									
BROMOMETHANE	UG/L	1000.0000	UR	10.0000	U									
CARBON DISULFIDE	UG/L	500.0000	UR	10.0000	U									
CARBON TETRACHLORIDE	UG/L	500.0000	UR	10.0000	U									
CHLOROBENZENE	UG/L	500.0000	UR	10.0000	U									
CHLOROETHANE	UG/L	1000.0000	UR	10.0000	U									
CHLOROFORM	UG/L	500.0000	UR	10.0000	U									
CHLOROMETHANE	UG/L	1000.0000	UR	10.0000	UJ									
CIS-1,3-DICHLOROPROPENE	UG/L	500.0000	UR	10.0000	U									
DIBROMOCHLOROMETHANE	UG/L	500.0000	UR	10.0000	U									
ETHYLBENZENE	UG/L	500.0000	UR	10.0000	U									
METHYLENE CHLORIDE	UG/L	360.0000	R	10.0000	U									
STYRENE	UG/L	500.0000	UR	10.0000	U									
TETRACHLOROETHENE	UG/L	350.0000	R	150.0000	-									
TOLUENE	UG/L	5.0000	U	10.0000	U									
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U	10.0000	U									
TRICHLOROETHENE	UG/L	6400.0000	R	2300.0000	-									
VINYL ACETATE	UG/L	1000.0000	UR	10.0000	U									
VINYL CHLORIDE	UG/L	1000.0000	UR	10.0000	UJ									
XYLENES, TOTAL	UG/L	5.0000	U	10.0000	U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120503	120503F	045290	045291	045938
TASK:	50.03.23	50.03.23	3.7	3.7	3.7
LAB:	FERMCO	FERMCO	IT	IT	IT
WELL OR BORING NUMBER:	1324	1324	1332	1332	1332
DEPTH:	-	-	-	-	-
DATE COLLECTED:	10-JUL-93	10-JUL-93	04-OCT-89	04-OCT-89	05-FEB-90
NORTH COORDINATE:	480828.51	480828.51	482077.01	482077.01	482077.01
EAST COORDINATE:	1381681.83	1381681.83	1380737.53	1380737.53	1380737.53
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.1000		U	0.1000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	240000.000		UNV	220000.000		NV	10.0000	2	J				16.2000	3	-

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930127-1	GW930417-2	045292	045293	045942
TASK:	RCRA	50.03.23	3.7	3.7	3.7
LAB:	NET	NET	IT	IT	IT
WELL OR BORING NUMBER:	1332	1332	1336	1336	1336
DEPTH:	-	-	-	-	-
DATE COLLECTED:	27-JAN-93	17-APR-93	04-OCT-89	04-OCT-89	05-FEB-90
NORTH COORDINATE:	482077.01	482077.01	481829.27	481829.27	481829.27
EAST COORDINATE:	1380737.53	1380737.53	1380728.87	1380728.87	1380728.87
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	457.0000		NV	456.0000		-									
ALLYL CHLORIDE	UG/L	5.0000		UNV												
AMMONIA	MG/L	0.2800		NV	0.2300		UJ									
BICARBONATE ALKALINITY	MG/L	543.0000		NV	689.0000		-									
CARBONATE ALKALINITY	MG/L	3.0000		UNV	3.0000		U									
CHLORIDE	MG/L	722.0000		NV	698.0000		-									
FLUORIDE	MG/L	0.4300		NV	0.4200		-									
NITRATE	MG/L	0.0200		UNV							1.0100		-	1.0700		-
NITRATE/NITRITE	MG/L				0.0200		-									
NITRITE, AS NITROGEN	MG/L	0.0200		UNV												
PH	STD	6.8100		NV	7.0500		-									
PHENOLS	MG/L	0.0100		UNV	0.0100		U									
PHOSPHORUS	MG/L	0.1000		UNV	0.2100		J									
SPECIFIC CONDUCTIVITY	UMHOS/CM	3190.0000		NV	2660.0000		-									
SULFATE	MG/L	59.0000		NV	42.0000		J									
TOTAL DISSOLVED SOLIDS	MG/L	1710.0000		NV	1730.0000		-									
TOTAL KJELDAHL NITROGEN	MG/L				2.6300		-									
TOTAL ORGANIC CARBON	MG/L	22.0000		NV	19.0000		-									
TOTAL ORGANIC HALIDES	MG/L	0.0140		NV												
TOTAL ORGANIC HALOGENS	MG/L				0.0100		U									
TOTAL ORGANIC NITROGEN	MG/L				2.4000		-									
TOTAL SOLIDS	MG/L	2150.0000		NV	4800.0000		-									
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	10.9000		J									
ANTIMONY	MG/L	0.0200		UNV	0.0450		U									
ARSENIC	MG/L	0.0050		UNV	0.0056		-									
BARIUM	MG/L	0.3600		NV	0.2200		-									
BERYLLIUM	MG/L	0.0050		UNV	0.0010		U									

001587

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1090

SAMPLE NUMBER:		GW930127-1			GW930417-2			045292			045293			045942		
LAB:		NET			NET											
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L	0.0010		UNV	0.0030		U									
CALCIUM	MG/L	211.0000		NV	173.0000		-									
CHROMIUM	MG/L	0.0020		UNV	0.0050		U									
COBALT	MG/L	0.0050		UNV	0.0293		-									
COPPER	MG/L	0.0200		UNV	0.0064		U									
CYANIDE	MG/L	0.0050		UNV	0.0100		UJ									
IRON	MG/L	1.8800		NV	1.3000		J									
LEAD	MG/L	0.0064		NV	0.0010		UJ									
MAGNESIUM	MG/L	69.8000		NV	135.0000		-									
MANGANESE	MG/L	4.1000		NV	2.8300		-									
MERCURY	MG/L	0.0002		UNV	0.0002		U									
MOLYBDENUM	MG/L	0.0100		UNV												
NICKEL	MG/L	0.0100		UNV	0.0200		U									
POTASSIUM	MG/L	5.0000		NV	5.3300		-									
SELENIUM	MG/L	0.0050		UNV	0.0023		UJ									
SILVER	MG/L	0.0010		UNV	0.0070		U									
SODIUM	MG/L	340.0000		NV	255.0000		-									
THALLIUM	MG/L	0.0100		UNV	0.0100		UJ									
VANADIUM	MG/L	0.0500		UNV	0.0030		U									
ZINC	MG/L	0.0340		NV	0.0717		U									
MISC																
1,2,3-TRICHLOROPROPANE	UG/L	5.0000		UNV												
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	2.0000		UNV												
1,2-DIBROMOETHANE	UG/L	2.0000		UNV												
2-CHLORO-1,3-BUTADIENE	UG/L	5.0000		UNV												
ACROLEIN	UG/L	50.0000		UNV												
ACROLEIN	UG/L	50.0000		UNV												
ACRYLONITRILE	UG/L	50.0000		UNV												
DICHLORODIFLUOROMETHANE	UG/L	10.0000		UNV												
ETHYL CYANIDE	UG/L	20.0000		UNV												
ETHYL METHACRYLATE	UG/L	5.0000		UNV												
IODOMETHANE	UG/L	5.0000		UNV												
METHACRYLONITRILE	UG/L	5.0000		UNV												
METHYL METHACRYLATE	UG/L	5.0000		UNV												
PENTACHLOROETHANE	UG/L	5.0000		UNV												
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	20.0000		UNV												
RADIONUCLIDES																
URANIUM-238	PCI/L				0.6000	.2	J									
URANIUM, TOTAL	UG/L	1.7000		NV	12.1000	.8	J	127.0000	19	-				165.0000	26	-
URANIUM-234	PCI/L				0.8000	.3	J									

001588

0024

SAMPLE NUMBER:		GW930127-1			GW930417-2			045292			045293			045942		
LAB:					CORE											
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-230	PCI/L	0.5000	.2	NV	0.2000	.1	UJ									
RADIUM-226	PCI/L	1.3000	.4	NV	1.0000	.3	UJ									
URANIUM-235/236	PCI/L				0.2000	.2	UJ									
THORIUM-232	PCI/L	0.2000	.1	UNV	0.3000	.1	UJ									
THORIUM, TOTAL	UG/L	1.5000		NV												
RADIUM-228	PCI/L	3.0000	1.3	UNV	3.6000	1.2	-									
THORIUM-228	PCI/L	0.3000	.2	NV	0.3000	.1	UJ									
TECHNETIUM-99	PCI/L				15.0000	7.6	U									
GROSS ALPHA	PCI/L	3.5000	9.9	NV	9.9000	3.7	NV									
GROSS BETA	PCI/L	1.6000	10.2	UNV	95.3000	20.1	NV									
SEMIVOLATILES																
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
CUMENE	UG/L	1.0000		UNV												
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	1.0000		UNV												
1,1,1-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,1-DICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,1-DICHLOROETHENE	UG/L	1.0000		UNV	10.0000		U									
1,2-DICHLOROETHANE	UG/L	1.0000		UNV	10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U									
1,2-DICHLOROPROPANE	UG/L	1.0000		UNV	10.0000		U									
2-BUTANONE	UG/L	10.0000		UNV	10.0000		U									
2-HEXANONE	UG/L	10.0000		UNV	10.0000		U									
4-METHYL-2-PENTANONE	UG/L	10.0000		UNV	10.0000		U									
ACETONE	UG/L	10.0000		UNV	10.0000		UJ									
BENZENE	UG/L	1.0000		UNV	10.0000		U									
BROMODICHLOROMETHANE	UG/L	1.0000		UNV	10.0000		U									
BROMOFORM	UG/L	1.0000		UNV	10.0000		U									
BROMOMETHANE	UG/L	5.0000		UNV	10.0000		U									
CARBON DISULFIDE	UG/L	1.0000		UNV	10.0000		U									
CARBON TETRACHLORIDE	UG/L	1.0000		UNV	10.0000		U									
CHLOROBENZENE	UG/L	1.0000		UNV	10.0000		U									
CHLOROETHANE	UG/L	10.0000		UNV	10.0000		U									
CHLOROFORM	UG/L	1.0000		UNV	10.0000		U									
CHLOROMETHANE	UG/L	10.0000		UNV	10.0000		U									
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	10.0000		U									
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV	10.0000		U									
ETHYLBENZENE	UG/L	1.0000		UNV	10.0000		U									
METHYLENE CHLORIDE	UG/L	10.0000		UNV	10.0000		U									

00015 69

SAMPLE NUMBER:		GW930127-1		GW930417-2		045292			045293			045942		
LAB:		NET		NET										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
STYRENE	UG/L	1.0000		UNV	10.0000		U									
TETRACHLOROETHENE	UG/L	1.0000		UNV	10.0000		U									
TOLUENE	UG/L	1.0000		UNV	10.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	10.0000		U									
TRICHLOROETHENE	UG/L	1.0000		UNV	10.0000		U									
TRICHLOROFLUOROMETHANE	UG/L	1.0000		UNV												
VINYL ACETATE	UG/L	10.0000		UNV												
VINYL CHLORIDE	UG/L	5.0000		UNV	10.0000		U									
XYLENES, TOTAL	UG/L	1.0000		UNV	10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930527-1	045307	045308	045947	045948
TASK:	50.03.23	3.7	3.7	3.7	3.7
LAB:	LOCKHEED	IT	IT	IT	IT
WELL OR BORING NUMBER:	1336	1337	1337	1337	1337
DEPTH:	-	-	-	-	-
DATE COLLECTED:	27-MAY-93	05-OCT-89	05-OCT-89	13-JUL-90	13-JUL-90
NORTH COORDINATE:	481829.27	481637.29	481637.29	481637.29	481637.29
EAST COORDINATE:	1380728.87	1380009.42	1380009.42	1380009.42	1380009.42
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	320.0000		-												
AMMONIA	MG/L	0.0500		U												
BICARBONATE ALKALINITY	MG/L	320.0000		-												
CARBONATE ALKALINITY	MG/L	30.0000		U												
CHLORIDE	MG/L	52.0000		-												
FLUORIDE	MG/L	0.2200		-												
NITRATE	MG/L							4.0100		-				5.5200		J
NITRATE/NITRITE	MG/L	1.7000		-												
PH	STD	7.4000		-												
PHENOLS	MG/L	0.1500		U												
PHOSPHORUS	MG/L	0.2400		-												
SPECIFIC CONDUCTIVITY	UMHOS/CM	840.0000		-												
SULFATE	MG/L	69.0000		-												
TOTAL DISSOLVED SOLIDS	MG/L	470.0000		-												
TOTAL ORGANIC CARBON	MG/L	1.8000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0450		U												
TOTAL ORGANIC NITROGEN	MG/L	0.3600		J												
TOTAL SOLIDS	MG/L	930.0000		-												
INORGANICS																
ALUMINUM	MG/L	0.0240		U												
ANTIMONY	MG/L	0.0270		U												
ARSENIC	MG/L	0.0020		U												
BARIUM	MG/L	0.1000		-												
BERYLLIUM	MG/L	0.0010		U												
CADMIUM	MG/L	0.0020		U												
CALCIUM	MG/L	139.0000		-												
CHROMIUM	MG/L	0.0040		U												
COBALT	MG/L	0.0050		U												

SAMPLE NUMBER:		GW930527-1		045307			045308			045947			045948		
LAB:		LOCKHEED													
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COPPER	MG/L	0.0109		-												
CYANIDE	MG/L	0.0200		U												
IRON	MG/L	0.0050		U												
LEAD	MG/L	0.0040		-												
MAGNESIUM	MG/L	40.6000		-												
MANGANESE	MG/L	0.1460		-												
MERCURY	MG/L	0.0002		U												
MOLYBDENUM	MG/L	0.0110		U												
NICKEL	MG/L	0.0110		U												
POTASSIUM	MG/L	2.0400		-												
SELENIUM	MG/L	0.0020		U												
SILVER	MG/L	0.0040		U												
SODIUM	MG/L	35.0000		-												
THALLIUM	MG/L	0.0010		U												
VANADIUM	MG/L	0.0051		-												
ZINC	MG/L	0.0383		-												
RADIONUCLIDES																
URANIUM-238	PCI/L	51.2000	4.3	-												
URANIUM, TOTAL	UG/L	150.0000		NV	689.0000	92	-				757.0000	100	R			
URANIUM-234	PCI/L	13.4000	2.3	J												
THORIUM-230	PCI/L	0.3000	.2	UJ												
RADIUM-226	PCI/L	1.0000	.2	UJ												
URANIUM-235/236	PCI/L	1.7000	.4	-												
THORIUM-232	PCI/L	0.2000	.2	UJ												
THORIUM, TOTAL	UG/L	0.9120	.2	NV												
RADIUM-228	PCI/L	8.7000	1.8	-												
THORIUM-228	PCI/L	0.2000	.2	UJ												
TECHNETIUM-99	PCI/L	15.0000	7.8	U												
GROSS ALPHA	PCI/L	55.1000	4.4	NV												
GROSS BETA	PCI/L	66.3000	4.4	NV												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		U												
2-HEXANONE	UG/L	10.0000		U												

SAMPLE NUMBER:		GW930527-1		045307			045308			045947			045948		
LAB:		LOCKHEED													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		UJ												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045403			045404			045405			045406			046973		
TASK:		3.7			3.7			3.7			3.7			3.7		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1339			1339			1339			1339			1339		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		17-OCT-89			17-OCT-89			17-OCT-89			17-OCT-89			13-JUL-90		
NORTH COORDINATE:		481614.27			481614.27			481614.27			481614.27			481614.27		
EAST COORDINATE:		1380504.33			1380504.33			1380504.33			1380504.33			1380504.33		
QA TYPE:		NORMAL			NORMAL			DUPLICATE			DUPLICATE			NORMAL		
QC OF:								045403			045404					
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		-				0.1200		-			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	441.00081		-				440.0000	64	-				100.0000	13	R

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		046974			099108			120437			EMGW_SYSGEN_322			EMGW_SYSGEN_323		
TASK:		3.7			50.03.07			50.03.07			GWMON			GWMON		
LAB:		IT-KNOX			IT-KNOX			IT			NET			NET		
WELL OR BORING NUMBER:		1339			1339			1339			1339			1339		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		13-JUL-90			17-DEC-92			07-JUL-93			11-OCT-90			27-FEB-91		
NORTH COORDINATE:		481614.27			481614.27			481614.27			481614.27			481614.27		
EAST COORDINATE:		1380504.33			1380504.33			1380504.33			1380504.33			1380504.33		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L													5000.0000		UNV
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							310.4000		-				300.0000		NV
ALLYL CHLORIDE	UG/L													20.0000		UNV
AMMONIA	MG/L							0.1000		U	0.0900		NV	0.0700		NV
CHLORIDE	MG/L							100.3800		-	114.0000		NV	78.0000		NV
FLUORIDE	MG/L							0.3800		-	3.0300		NV	0.2700		NV
NITRATE	MG/L	0.1000		U				0.3400		-						
NITRATE, AS NITROGEN	MG/L													0.5800		NV
NITRATE/NITRITE	MG/L										0.3200		NV			
PH	STD													7.3200		NV
PHENOLS	MG/L							0.0100		U				0.0060		NV
PHOSPHORUS	MG/L							1.7800		-	3.4200		NV	1.6700		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM													871.0000		NV
SULFATE	MG/L							22.5000		-	46.0000		NV	70.0000		NV
SULFIDE	MG/L							0.5000		U				0.2000		UNV
TOTAL DISSOLVED SOLIDS	MG/L													510.0000		NV
TOTAL KJELDAHL NITROGEN	MG/L							0.4400		-						
TOTAL ORGANIC CARBON	MG/L							3.6700		-				30.0000		NV
TOTAL ORGANIC HALIDES	MG/L							0.0409		-						
TOTAL ORGANIC HALOGENS	MG/L													0.0100		UNV
TOTAL ORGANIC NITROGEN	MG/L							0.4400		-						
HERBICIDES																
2,4,5-T	UG/L													2.5000		UNV
2,4,5-TP (SILVEX)	UG/L													2.5000		UNV
2,4-D	UG/L													5.0000		UNV

SAMPLE NUMBER:	046974	099108	120437	EMGW_SYSGEN_322	EMGW_SYSGEN_323
LAB:					NET
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L				0.4660		-	0.1500		U	0.5000		UNV	0.5000		UNV
ANTIMONY	MG/L				0.0074		J	0.0050		U	0.0250		UNV	0.0250		UNV
ARSENIC	MG/L				0.0020		UJ	0.0020		U	0.0690		NV	0.0380		NV
BARIUM	MG/L				0.0590		-	0.0692		-	0.2000		UNV	0.3850		NV
BERYLLIUM	MG/L				0.0020		U	0.0020		U	0.0100		UNV	0.0100		UNV
CADMIUM	MG/L				0.0050		U	0.0050		UJ	0.0010		UNV	0.0010		UNV
CALCIUM	MG/L				78.6000		-	85.6000		-	61.1000		NV	63.7000		NV
CHROMIUM	MG/L				0.0100		U	0.0100		U	0.1270		NV	0.0050		UNV
COBALT	MG/L				0.0100		U	0.0100		U	0.0250		UNV	0.0250		UNV
COPPER	MG/L				0.0100		U	0.0100		U	0.1690		NV	0.1010		NV
CYANIDE	MG/L				0.0020		U	0.0020		UJ	0.0050		UNV	0.0050		UNV
IRON	MG/L				0.9530		-	0.0200		U	0.1000		NV	110.0000		NV
LEAD	MG/L				0.0020		U	0.0020		U	0.0050		UNV	0.0290		NV
MAGNESIUM	MG/L				20.6000		-	21.7000		-	133.0000		NV	21.0000		NV
MANGANESE	MG/L				0.2440		-	0.3810		-	3.6100		NV	0.1330		NV
MERCURY	MG/L				0.0002		U	0.0002		U	0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L				0.0200		U	0.0200		U	0.0250		UNV	0.0250		UNV
NICKEL	MG/L				0.0200		U	0.0200		UJ	0.1390		NV	0.0050		UNV
POTASSIUM	MG/L				2.1900		-	2.6400		-	15.3000		NV	11.5000		NV
SELENIUM	MG/L				0.0020		U	0.0020		U	0.0025		UNV	0.0025		UNV
SILICON	MG/L				7.3900		-	8.1500		-						
SILVER	MG/L				0.0100		U	0.0100		U	0.0010		UNV	0.0010		UNV
SODIUM	MG/L				90.2000		-	100.0000		-	41.6000		NV	83.0000		NV
THALLIUM	MG/L				0.0020		U	0.0020		U	0.0100		UNV	0.0100		UNV
TIN	MG/L													1.0000		UNV
VANADIUM	MG/L				0.0100		U	0.0100		U	0.0500		UNV	0.4160		NV
ZINC	MG/L				0.0106		-	0.0050		U	0.0200		UNV	0.4640		NV
MISC																
1,2,3-TRICHLOROPROPANE	UG/L													1.0000		UNV
1,2,4,5-TETRACHLOROBENZENE	UG/L													4.0000		UNV
1,2-DIBROMO-3-CHLOROPROPANE	UG/L													20.0000		UNV
1,2-DIBROMOETHANE	UG/L													20.0000		UNV
1,3,5-TRINITROBENZENE	UG/L													15.0000		UNV
1,3-DINITROBENZENE	UG/L													15.0000		UNV
1,4-NAPHTHOQUINONE	UG/L													15.0000		UNV
1-NAPHTHYLAMINE	UG/L													15.0000		UNV
2,3,4,6-TETRACHLOROPHENOL	UG/L													4.0000		UNV
2,6-DICHLOROPHENOL	UG/L													4.0000		UNV
2-ACETYLAMINOFLUORENE	UG/L													15.0000		UNV
2-CHLORO-1,3-BUTADIENE	UG/L													20.0000		UNV
2-NAPHTHYLAMINE	UG/L													4.0000		UNV
2-PICOLINE	UG/L													15.0000		UNV
3,3'-DIMETHYLBENZIDINE	UG/L													15.0000		UNV

SAMPLE NUMBER:	046974			099108			120437			EMGW_SYSGEN_322			EMGW_SYSGEN_323		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
3-METHYLCHOLANTHRENE UG/L													15.0000		UNV
3-METHYLPHENOL UG/L										4.0000		UNV	4.0000		UNV
4-AMINOBIPHENYL UG/L													15.0000		UNV
4-NITROQUINOLINE-1-OXIDE UG/L													15.0000		UNV
5-NITRO-O-TOLUIDINE UG/L													15.0000		UNV
7,12-DIMETHYLBENZ(A)ANTHRACENE UG/L													15.0000		UNV
A,A-DIMETHYLPHENETHYLAMINE UG/L													15.0000		UNV
ACETONITRILE UG/L													1000.0000		UNV
ACETOPHENONE UG/L													15.0000		UNV
ACROLEIN UG/L													20.0000		UNV
ACROLEIN UG/L													20.0000		UNV
ACRYLONITRILE UG/L													20.0000		UNV
ANILINE UG/L													4.0000		UNV
ARAMITE UG/L													15.0000		UNV
DIALLATE UG/L													15.0000		UNV
DIBROMOMETHANE UG/L													1.0000		UNV
DICHLORODIFLUOROMETHANE UG/L													1.0000		UNV
DINOSEB UG/L													2.5000		UNV
DIPHENYLAMINE UG/L													15.0000		UNV
ETHYL CYANIDE UG/L													20.0000		UNV
ETHYL METHACRYLATE UG/L													20.0000		UNV
ETHYL METHANESULFONATE UG/L													15.0000		UNV
HEXACHLOROPHENE UG/L													4.0000		UNV
HEXACHLOROPROPENE UG/L													4.0000		UNV
IODOMETHANE UG/L													20.0000		UNV
ISODRIN UG/L													4.0000		UNV
ISOSAFROLE UG/L													15.0000		UNV
KEPONE UG/L													4.0000		UNV
METHACRYLONITRILE UG/L													20.0000		UNV
METHAPYRILENE UG/L													15.0000		UNV
METHYL METHACRYLATE UG/L													20.0000		UNV
METHYL METHANESULFONATE UG/L													15.0000		UNV
N-NITROSODI-N-BUTYLAMINE UG/L													4.0000		UNV
N-NITROSODIETHYLAMINE UG/L													4.0000		UNV
N-NITROSOMETHYLETHYLAMINE UG/L													4.0000		UNV
N-NITROSOMORPHOLINE UG/L													15.0000		UNV
N-NITROSOPIPERIDINE UG/L													15.0000		UNV
N-NITROSOPYRROLIDINE UG/L													15.0000		UNV
O-TOLUIDINE UG/L													15.0000		UNV
P-DIMETHYLAMINOAZOBENZENE UG/L													15.0000		UNV
P-PHENYLENEDIAMINE UG/L													15.0000		UNV
PENTACHLOROBENZENE UG/L													4.0000		UNV
PENTACHLOROETHANE UG/L													20.0000		UNV
PENTACHLORONITROBENZENE UG/L													4.0000		UNV
PHENACETIN UG/L													4.0000		UNV

SAMPLE NUMBER:	046974			099108			120437			EMGW_SYSGEN_322			EMGW_SYSGEN_323		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
PRONAMIDE UG/L													15.0000		UNV
SAFROLE UG/L													15.0000		UNV
TRANS-1,2-DICHLOROETHENE UG/L										1.0000		UNV	1.0000		UNV
ORGANOPHOSPHORUS															
DIMETHOATE UG/L													15.0000		UNV
DISULFOTON UG/L													15.0000		UNV
FAMPHUR UG/L													15.0000		UNV
METHYL PARATHION UG/L													15.0000		UNV
PARATHION UG/L													15.0000		UNV
PHORATE UG/L													15.0000		UNV
THIONAZIN UG/L													15.0000		UNV
PESTICIDES															
4,4'-DDD UG/L				0.1000		U	0.1000		U	0.2000		UNV	4.0000		UNV
4,4'-DDE UG/L				0.1000		U	0.1000		U	0.2000		UNV	4.0000		UNV
4,4'-DDT UG/L				0.1000		U	0.1000		U	0.2000		UNV	4.0000		UNV
ALDRIN UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
ALPHA-BHC UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
ALPHA-CHLORDANE UG/L				0.5000		U	0.0500		U						
AROCLOR-1016 UG/L				0.5000		U	1.0000		U	0.2000		UNV	0.2000		UNV
AROCLOR-1221 UG/L				0.5000		U	2.0000		U	0.2000		UNV	0.2000		UNV
AROCLOR-1232 UG/L				0.5000		U	1.0000		U	0.2000		UNV	0.2000		UNV
AROCLOR-1242 UG/L				0.5000		U	1.0000		U	0.2000		UNV	0.2000		UNV
AROCLOR-1248 UG/L				0.5000		U	1.0000		U	0.2000		UNV	0.2000		UNV
AROCLOR-1254 UG/L				1.0000		U	1.0000		U	0.2000		UNV	0.2000		UNV
AROCLOR-1260 UG/L				1.0000		U	1.0000		U	0.2000		UNV	0.2000		UNV
BETA-BHC UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
CHLORDANE UG/L										0.2000		UNV	0.2000		UNV
CHLOROBENZILATE UG/L													15.0000		UNV
DELTA-BHC UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
DIELDRIN UG/L				0.1000		U	0.1000		U	0.2000		UNV	0.2000		UNV
ENDOSULFAN II UG/L				0.1000		U	0.1000		U	0.2000		UNV	0.2000		UNV
ENDOSULFAN SULFATE UG/L				0.1000		U	0.1000		U	0.2000		UNV	0.2000		UNV
ENDOSULFAN-I UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
ENDRIN UG/L				0.1000		U	0.1000		U	0.2000		UNV	0.2000		UNV
ENDRIN ALDEHYDE UG/L							0.1000		U	0.2000		UNV	0.2000		UNV
ENDRIN KETONE UG/L				0.1000		U	0.1000		U						
GAMMA-BHC (LINDANE) UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
GAMMA-CHLORDANE UG/L				0.5000		U	0.0500		U						
HEPTACHLOR UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
HEPTACHLOR EPOXIDE UG/L				0.0500		U	0.0500		U	0.2000		UNV	0.2000		UNV
METHOXYCHLOR UG/L				0.5000		U	0.5000		U				0.2000		UNV

SAMPLE NUMBER:	046974	099108			120437			EMGW_SYSGEN_322			EMGW_SYSGEN_323		
LAB:		IT-KNOX			IT			NET			NET		
SUFFIX/FILTERFLAG:	-	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
	RESULT SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES													
2-NITROPHENOL UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
3,3'-DICHLOROBENZIDINE UG/L		20.0000		U	10.0000		U	15.0000		UNV	15.0000		UNV
3-NITROANILINE UG/L		50.0000		U	25.0000		U	15.0000		UNV	15.0000		UNV
4,6-DINITRO-2-METHYLPHENOL UG/L		50.0000		U	25.0000		U	4.0000		UNV	4.0000		UNV
4-BROMOPHENYL PHENYL ETHER UG/L		10.0000		U	10.0000		U	15.0000		UNV	15.0000		UNV
4-CHLORO-3-METHYLPHENOL UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
4-CHLOROPHENYLPHENYL ETHER UG/L		10.0000		U	10.0000		U	15.0000		UNV	15.0000		UNV
4-METHYLPHENOL UG/L		10.0000		U	10.0000		U						
4-NITROANILINE UG/L		50.0000		U	25.0000		U	15.0000		UNV	15.0000		UNV
4-NITROPHENOL UG/L		50.0000		U	25.0000		U	4.0000		UNV	4.0000		UNV
ACENAPHTHENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
ACENAPHTHYLENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
ANTHRACENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
BENZO(A)ANTHRACENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
BENZO(A)PYRENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
BENZO(B)FLUORANTHENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
BENZO(G,H,I)PERYLENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
BENZO(K)FLUORANTHENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
BENZOIC ACID UG/L		50.0000		UJ	3.0000		J	4.0000		UNV			
BENZYL ALCOHOL UG/L		10.0000		U	10.0000		U	40.0000		UNV	40.0000		UNV
BIS(2-CHLOROETHOXY)METHANE UG/L		10.0000		U	10.0000		U	15.0000		UNV	15.0000		UNV
BIS(2-CHLOROETHYL)ETHER UG/L		10.0000		U	10.0000		U	15.0000		UNV	15.0000		UNV
BIS(2-CHLOROISOPROPYL) ETHER UG/L		10.0000		UJ	10.0000		U	15.0000		UNV	4.0000		UNV
BIS(2-ETHYLHEXYL)PHTHALATE UG/L		10.0000		U	2.0000		J	4.0000		UNV	4.0000		UNV
BUTYL BENZYL PHTHALATE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
CARBAZOLE UG/L					10.0000		U						
CHRYSENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
DI-N-BUTYL PHTHALATE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
DI-N-OCTYL PHTHALATE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
DIBENZO(A,H)ANTHRACENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
DIBENZOFURAN UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
DIETHYL PHTHALATE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
DIMETHYL PHTHALATE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
FLUORANTHENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
FLUORENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
HEXACHLOROBENZENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
HEXACHLOROBUTADIENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
HEXACHLOROCYCLOPENTADIENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
HEXACHLOROETHANE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
INDENO(1,2,3-CD)PYRENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
ISOPHORONE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
N-NITROSO-DI-N-PROPYLAMINE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
N-NITROSODIMETHYLAMINE UG/L					10.0000		U				4.0000		UNV
N-NITROSODIPHENYLAMINE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
NAPHTHALENE UG/L		10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV

SAMPLE NUMBER:	046974	099108	120437	EMGW_SYSGEN_322	EMGW_SYSGEN_323
LAB:		IT-KNOX	IT	NET	NET
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES													
NITROBENZENE	UG/L				10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
P-CHLOROANILINE	UG/L				10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
PENTACHLOROPHENOL	UG/L				50.0000		U	25.0000		UJ	4.0000		UNV	4.0000		UNV
PHENANTHRENE	UG/L				10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
PHENOL	MG/L				10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
PYRENE	UG/L				10.0000		U	10.0000		U	4.0000		UNV	4.0000		UNV
PYRIDINE	UG/L													4.0000		UNV
TRIBUTYL PHOSPHATE	UG/L				60.0000		-									
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L				10.0000		U	1.0000		J	1.1000		NV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U	10.0000		U	1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L				10.0000		U	10.0000		U	2.0000		UNV	2.0000		UNV
2-HEXANONE	UG/L				10.0000		UJ	10.0000		U	2.0000		UNV	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ	10.0000		U	2.0000		UNV	2.0000		UNV
ACETONE	UG/L				10.0000		U	10.0000		U	2.0000		UNV	2.0000		UNV
BENZENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
CARBON DISULFIDE	UG/L				10.0000		U	2.0000		J	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L				10.0000		UJ	10.0000		U	1.0000		UNV	1.0000		UNV
CHLOROFORM	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
ISOBUTYL ALCOHOL	UG/L													3000.0000		UNV
METHYLENE CHLORIDE	UG/L				10.0000		UJ	21.0000		UJ	1.0000		UNV	1.0000		UNV
STYRENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
T-1,4-DICHLORO-2-BUTENE	UG/L													20.0000		UNV
TETRACHLOROETHENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV

001600

52704

SAMPLE NUMBER:	046974	099108	120437	EMGW_SYSGEN_322	EMGW_SYSGEN_323
LAB:		IT-KNOX	IT	NET	NET
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROFLUOROMETHANE	UG/L													1.0000		UNV
VINYL ACETATE	UG/L				10.0000		UJ				2.0000		UNV	2.0000		UNV
VINYL CHLORIDE	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV
XYLENES, TOTAL	UG/L				10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930526-4	045297	045298	045955	GW930527-2
TASK:	50.03.23	3.7	3.7	3.7	50.03.23
LAB:	NET	IT	IT	IT	LOCKHEED
WELL OR BORING NUMBER:	1339	1340	1340	1340	1340
DEPTH:	-	-	-	-	-
DATE COLLECTED:	26-MAY-93	05-OCT-89	05-OCT-89	21-JAN-90	27-MAY-93
NORTH COORDINATE:	481614.27	481618.58	481618.58	481618.58	481618.58
EAST COORDINATE:	1380504.33	1380734.93	1380734.93	1380734.93	1380734.93
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	308.0000		-										450.0000		-
AMMONIA	MG/L	0.0200		UJ										0.1500		-
BICARBONATE ALKALINITY	MG/L	403.0000		-										450.0000		-
CARBONATE ALKALINITY	MG/L	3.0000		U										30.0000		U
CHLORIDE	MG/L	130.0000		-										530.0000		-
FLUORIDE	MG/L	0.3600		-										0.3000		-
NITRATE	MG/L							0.1000		U	0.1000		U			
NITRATE/NITRITE	MG/L	0.5100		-										0.0500		U
PH	STD	7.3200		-										7.2000		-
PHENOLS	MG/L	0.0150		-										0.1500		U
PHOSPHORUS	MG/L	0.1600		J										2.4000		-
SPECIFIC CONDUCTIVITY	UMHOS/CM	923.0000		-										2400.0000		-
SULFATE	MG/L	58.0000		-										140.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	607.0000		-										1200.0000		-
TOTAL KJELDAHL NITROGEN	MG/L	0.7000		-												
TOTAL ORGANIC CARBON	MG/L	6.0000		-										10.0000		-
TOTAL ORGANIC HALIDES	MG/L	0.0100		U										0.0470		-
TOTAL ORGANIC NITROGEN	MG/L	0.7000		-										0.8100		J
TOTAL SOLIDS	MG/L	1660.0000		-										4600.0000		-
INORGANICS																
ALUMINUM	MG/L	26.1000		-										33.2000		-
ANTIMONY	MG/L	0.0450		U										0.0270		U
ARSENIC	MG/L	0.0020		U										0.0020		U
BARIUM	MG/L	0.1860		-										0.0497		-
BERYLLIUM	MG/L	0.0010		U										0.0010		U
CADMIUM	MG/L	0.0030		U										0.0020		U
CALCIUM	MG/L	205.0000		-										480.0000		-
CHROMIUM	MG/L	0.0356		-										0.0040		U

001602

5704

SAMPLE NUMBER:	GW930526-4	045297	045298	045955	GW930527-2
LAB:	NET				LOCKHEED
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COBALT	MG/L	0.0080		U										0.0050		U
COPPER	MG/L	0.0082		U										0.0642		-
CYANIDE	MG/L	0.0100		U										0.0200		U
IRON	MG/L	0.0150		U										68.9000		-
LEAD	MG/L	0.0256		U										0.0470		-
MAGNESIUM	MG/L	20.4000		-										151.0000		-
MANGANESE	MG/L	0.3060		-										0.2790		-
MERCURY	MG/L	0.0002		UR										0.0002		U
MOLYBDENUM	MG/L													0.0110		U
NICKEL	MG/L	0.0200		UJ										0.0110		U
POTASSIUM	MG/L	9.2700		-										3.6800		-
SELENIUM	MG/L	0.0016		UJ										0.0010		U
SILVER	MG/L	0.0070		U										0.0040		U
SODIUM	MG/L	85.4000		-										185.0000		-
THALLIUM	MG/L	0.0020		UJ										0.0010		UJ
VANADIUM	MG/L	0.0030		U										0.0287		-
ZINC	MG/L	0.2000		U										0.0042		-
RADIONUCLIDES																
URANIUM-238	PCI/L	253.000	B3.4	J										2.0000	.5	R
URANIUM, TOTAL	UG/L	800.0000		NV	32.0000	7	-				45.9000	10.6	-	1.9000		NV
URANIUM-234	PCI/L	208.000	B7.1	J										2.8000	1	R
THORIUM-230	PCI/L	0.3000	.2	UJ										0.3000	.3	UJ
RADIUM-226	PCI/L	2.9000	.4	J										1.0000	.4	UJ
URANIUM-235/236	PCI/L	66.700	17.3	J										0.1000	.1	R
THORIUM-232	PCI/L	0.2000	.2	UJ										0.2000	.2	UJ
THORIUM, TOTAL	UG/L	1.8240	.2	NV										0.9120	.2	NV
RADIUM-228	PCI/L	3.0000	.9	UJ										8.1000	1.8	-
THORIUM-228	PCI/L	0.4000	.2	J										0.2000	.3	UJ
TECHNETIUM-99	PCI/L	69.200	9.4	-										29.0000	9.2	-
GROSS ALPHA	PCI/L	362.000	B6.8	NV										0.8000	4	UNV
GROSS BETA	PCI/L	183.000	B	NV										9.7000	5.5	UNV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1-DICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1-DICHLOROETHENE	UG/L	10.0000		U										10.0000		U
1,2-DICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U										10.0000		U
1,2-DICHLOROPROPANE	UG/L	10.0000		U										10.0000		U
2-BUTANONE	UG/L	10.0000		U										10.0000		U

SAMPLE NUMBER:		GW930526-4		045297			045298			045955			GW930527-2		
LAB:		NET											LOCKHEED		
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-HEXANONE	UG/L	10.0000		U										10.0000		U
4-METHYL-2-PENTANONE	UG/L	10.0000		U										10.0000		U
ACETONE	UG/L	10.0000		U										25.0000		UJ
BENZENE	UG/L	10.0000		UJ										10.0000		U
BROMODICHLOROMETHANE	UG/L	10.0000		U										10.0000		U
BROMOFORM	UG/L	10.0000		U										10.0000		U
BROMOMETHANE	UG/L	10.0000		U										10.0000		U
CARBON DISULFIDE	UG/L	10.0000		U										10.0000		U
CARBON TETRACHLORIDE	UG/L	10.0000		U										10.0000		U
CHLOROBENZENE	UG/L	10.0000		UJ										10.0000		U
CHLOROETHANE	UG/L	10.0000		U										10.0000		U
CHLOROFORM	UG/L	10.0000		U										10.0000		U
CHLOROMETHANE	UG/L	10.0000		U										10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U										10.0000		U
DIBROMOCHLOROMETHANE	UG/L	10.0000		U										10.0000		U
ETHYLBENZENE	UG/L	10.0000		UJ										10.0000		U
METHYLENE CHLORIDE	UG/L	10.0000		U										10.0000		U
STYRENE	UG/L	10.0000		UJ										10.0000		U
TETRACHLOROETHENE	UG/L	10.0000		U										10.0000		U
TOLUENE	UG/L	10.0000		UJ										10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U										10.0000		U
TRICHLOROETHENE	UG/L	10.0000		U										10.0000		U
VINYL CHLORIDE	UG/L	10.0000		UJ										10.0000		UJ
XYLENES, TOTAL	UG/L	10.0000		UJ										10.0000		U

001804

6704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045356	045357	045362	045363	045409
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT-KNOX	IT
WELL OR BORING NUMBER:	1341	1341	1341	1341	1342
DEPTH:	-	-	-	-	-
DATE COLLECTED:	27-OCT-89	27-OCT-89	13-JUL-90	13-JUL-90	17-OCT-89
NORTH COORDINATE:	481373.11	481373.11	481373.11	481373.11	481365.07
EAST COORDINATE:	1379977.11	1379977.11	1379977.11	1379977.11	1380265.73
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		UJ				0.1000		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	28.00009		J				36.9000	5.6	R				26.0000	3	-

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045410	045411	045412	EMGW_SYSGEN_325	045364
TASK:	3.7	3.7	3.7	GWMON	3.7
LAB:	IT	IT	IT	NET	IT
WELL OR BORING NUMBER:	1342	1342	1342	1342	1343
DEPTH:	-	-	-	-	-
DATE COLLECTED:	17-OCT-89	28-AUG-90	28-AUG-90	11-OCT-90	18-JAN-90
NORTH COORDINATE:	481365.07	481365.07	481365.07	481365.07	481347.63
EAST COORDINATE:	1380265.73	1380265.73	1380265.73	1380265.73	1380490.25
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L										0.4600		NV			
CHLORIDE	MG/L										84.0000		NV			
FLUORIDE	MG/L										0.6000		NV			
NITRATE	MG/L	0.1000		U				0.1000		U				0.1000		U
NITRATE/NITRITE	MG/L										0.0200		UNV			
PHOSPHORUS	MG/L										3.6600		NV			
SULFATE	MG/L										14.0000		NV			
INORGANICS																
ALUMINUM	MG/L										205.0000		NV			
ANTIMONY	MG/L										0.0250		UNV			
ARSENIC	MG/L										0.4320		NV			
BARIUM	MG/L										2.7100		NV			
BERYLLIUM	MG/L										0.0100		UNV			
CADMIUM	MG/L										0.0120		NV			
CALCIUM	MG/L										1490.0000		NV			
CHROMIUM	MG/L										0.0050		UNV			
COBALT	MG/L										0.0570		NV			
COPPER	MG/L										0.0250		UNV			
CYANIDE	MG/L										0.0050		UNV			
IRON	MG/L										1.9000		NV			
LEAD	MG/L										0.3320		NV			
MAGNESIUM	MG/L										390.0000		NV			
MANGANESE	MG/L										39.7000		NV			
MERCURY	MG/L										0.0002		UNV			
MOLYBDENUM	MG/L										0.0250		UNV			
NICKEL	MG/L										0.6160		NV			
POTASSIUM	MG/L										31.8000		NV			
SELENIUM	MG/L										0.0025		UNV			

001606

5704

SAMPLE NUMBER:	045410	045411	045412	EMGW_SYSGEN_325	045364
LAB:				NET	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L										0.0010		UNV			
SODIUM	MG/L										34.7000		NV			
THALLIUM	MG/L										0.0100		UNV			
VANADIUM	MG/L										0.6200		NV			
ZINC	MG/L										0.0250		NV			
MISC																
3-METHYLPHENOL	UG/L										4.0000		UNV			
TRANS-1,2-DICHLOROETHENE	UG/L										1.0000		UNV			
PESTICIDES																
4,4'-DDD	UG/L										0.2000		UNV			
4,4'-DDE	UG/L										0.2000		UNV			
4,4'-DDT	UG/L										0.2000		UNV			
ALDRIN	UG/L										0.2000		UNV			
ALPHA-BHC	UG/L										0.2000		UNV			
AROCLOR-1016	UG/L										0.2000		UNV			
AROCLOR-1221	UG/L										0.2000		UNV			
AROCLOR-1232	UG/L										0.2000		UNV			
AROCLOR-1242	UG/L										0.2000		UNV			
AROCLOR-1248	UG/L										0.2000		UNV			
AROCLOR-1254	UG/L										0.2000		UNV			
AROCLOR-1260	UG/L										0.2000		UNV			
BETA-BHC	UG/L										0.2000		UNV			
CHLORDANE	UG/L										0.2000		UNV			
DELTA-BHC	UG/L										0.2000		UNV			
DIELDRIN	UG/L										0.2000		UNV			
ENDOSULFAN II	UG/L										0.2000		UNV			
ENDOSULFAN SULFATE	UG/L										0.2000		UNV			
ENDOSULFAN-I	UG/L										0.2000		UNV			
ENDRIN	UG/L										0.2000		UNV			
ENDRIN ALDEHYDE	UG/L										0.2000		UNV			
GAMMA-BHC (LINDANE)	UG/L										0.2000		UNV			
HEPTACHLOR	UG/L										0.2000		UNV			
HEPTACHLOR EPOXIDE	UG/L										0.2000		UNV			
TOXAPHENE	UG/L										0.5000		UNV			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				1.8300	.2	-							40.6000	6.9	-
SEMIVOLATILES																

001607

1,2,4-TRICHLOROBENZENE	UG/L										4.0000		UNV			
SAMPLE NUMBER:		045410			045411			045412			EMGW_SYSGEN_325			045364		
LAB:											NET					
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L										4.0000		UNV			
1,4-DICHLOROBENZENE	UG/L										4.0000		UNV			
2,4,5-TRICHLOROPHENOL	UG/L										4.0000		UNV			
2,4,6-TRICHLOROPHENOL	UG/L										4.0000		UNV			
2,4-DICHLOROPHENOL	UG/L										4.0000		UNV			
2,4-DIMETHYLPHENOL	UG/L										4.0000		UNV			
2,4-DINITROPHENOL	UG/L										4.0000		UNV			
2,4-DINITROTOLUENE	UG/L										15.0000		UNV			
2,6-DINITROTOLUENE	UG/L										15.0000		UNV			
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV			
2-CHLORONAPHTHALENE	UG/L										4.0000		UNV			
2-CHLOROPHENOL	UG/L										4.0000		UNV			
2-METHYLNAPHTHALENE	UG/L										4.0000		UNV			
2-METHYLPHENOL	UG/L										4.0000		UNV			
2-NITROANILINE	UG/L										15.0000		UNV			
2-NITROPHENOL	UG/L										4.0000		UNV			
3,3'-DICHLOROBENZIDINE	UG/L										15.0000		UNV			
3-NITROANILINE	UG/L										15.0000		UNV			
4,6-DINITRO-2-METHYLPHENOL	UG/L										4.0000		UNV			
4-BROMOPHENYL PHENYL ETHER	UG/L										15.0000		UNV			
4-CHLORO-3-METHYLPHENOL	UG/L										4.0000		UNV			
4-CHLOROPHENYLPHENYL ETHER	UG/L										15.0000		UNV			
4-NITROANILINE	UG/L										15.0000		UNV			
4-NITROPHENOL	UG/L										4.0000		UNV			
ACENAPHTHENE	UG/L										4.0000		UNV			
ACENAPHTHYLENE	UG/L										4.0000		UNV			
ANTHRACENE	UG/L										4.0000		UNV			
BENZO(A)ANTHRACENE	UG/L										4.0000		UNV			
BENZO(A)PYRENE	UG/L										4.0000		UNV			
BENZO(B)FLUORANTHENE	UG/L										4.0000		UNV			
BENZO(G,H,I)PERYLENE	UG/L										4.0000		UNV			
BENZO(K)FLUORANTHENE	UG/L										4.0000		UNV			
BENZOIC ACID	UG/L										4.0000		UNV			
BENZYL ALCOHOL	UG/L										40.0000		UNV			
BIS(2-CHLOROETHOXY)METHANE	UG/L										15.0000		UNV			
BIS(2-CHLOROETHYL)ETHER	UG/L										15.0000		UNV			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										15.0000		UNV			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										4.0000		UNV			
BUTYL BENZYL PHTHALATE	UG/L										4.0000		UNV			
CHRYSENE	UG/L										4.0000		UNV			
DI-N-BUTYL PHTHALATE	UG/L										4.0000		UNV			
DI-N-OCTYL PHTHALATE	UG/L										4.0000		UNV			
DIBENZO(A,H)ANTHRACENE	UG/L										4.0000		UNV			
DIBENZOFURAN	UG/L										4.0000		UNV			

SAMPLE NUMBER:		045410			045411			045412			EMGW_SYSGEN_325 NET NONE-UNF			045364		
LAB:																
SUFFIX/FILTERFLAG:		-			-			-						-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
DIETHYL PHTHALATE	UG/L										4.0000		UNV			
DIMETHYL PHTHALATE	UG/L										4.0000		UNV			
FLUORANTHENE	UG/L										4.0000		UNV			
FLUORENE	UG/L										4.0000		UNV			
HEXACHLOROBENZENE	UG/L										4.0000		UNV			
HEXACHLOROBUTADIENE	UG/L										4.0000		UNV			
HEXACHLOROCYCLOPENTADIENE	UG/L										4.0000		UNV			
HEXACHLOROETHANE	UG/L										4.0000		UNV			
INDENO(1,2,3-CD)PYRENE	UG/L										4.0000		UNV			
ISOPHORONE	UG/L										4.0000		UNV			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										4.0000		UNV			
N-NITROSODIPHENYLAMINE	UG/L										4.0000		UNV			
NAPHTHALENE	UG/L										4.0000		UNV			
NITROBENZENE	UG/L										4.0000		UNV			
P-CHLOROANILINE	UG/L										4.0000		UNV			
PENTACHLOROPHENOL	UG/L										4.0000		UNV			
PHENANTHRENE	UG/L										4.0000		UNV			
PHENOL	MG/L										4.0000		UNV			
PYRENE	UG/L										4.0000		UNV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L										1.0000		UNV			
1,1,2,2-TETRACHLOROETHANE	UG/L										1.0000		UNV			
1,1,2-TRICHLOROETHANE	UG/L										1.0000		UNV			
1,1-DICHLOROETHANE	UG/L										1.0000		UNV			
1,1-DICHLOROETHENE	UG/L										1.0000		UNV			
1,2-DICHLOROETHANE	UG/L										1.0000		UNV			
1,2-DICHLOROETHENE (TOTAL)	UG/L										1.0000		UNV			
1,2-DICHLOROPROPANE	UG/L										1.0000		UNV			
2-BUTANONE	UG/L										2.0000		UNV			
2-HEXANONE	UG/L										2.0000		UNV			
4-METHYL-2-PENTANONE	UG/L										2.0000		UNV			
ACETONE	UG/L										2.0000		UNV			
BENZENE	UG/L										1.0000		UNV			
BROMODICHLOROMETHANE	UG/L										1.0000		UNV			
BROMOFORM	UG/L										1.0000		UNV			
BROMOMETHANE	UG/L										1.0000		UNV			
CARBON DISULFIDE	UG/L										1.0000		UNV			
CARBON TETRACHLORIDE	UG/L										1.0000		UNV			
CHLOROBENZENE	UG/L										1.0000		UNV			
CHLOROETHANE	UG/L										1.0000		UNV			
CHLOROFORM	UG/L										1.0000		UNV			
CHLOROMETHANE	UG/L										1.0000		UNV			
CIS-1,3-DICHLOROPROPENE	UG/L										1.0000		UNV			

SAMPLE NUMBER:	045410			045411			045412			EMGW_SYSGEN_325			045364		
LAB:										NET					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
DIBROMOCHLOROMETHANE UG/L										1.0000		UNV			
ETHYLBENZENE UG/L										1.0000		UNV			
METHYLENE CHLORIDE UG/L										1.0000		UNV			
STYRENE UG/L										1.0000		UNV			
TETRACHLOROETHENE UG/L										1.0000		UNV			
TOLUENE UG/L										1.0000		UNV			
TRANS-1,3-DICHLOROPROPENE UG/L										1.0000		UNV			
TRICHLOROETHENE UG/L										1.0000		UNV			
VINYL ACETATE UG/L										2.0000		UNV			
VINYL CHLORIDE UG/L										1.0000		UNV			
XYLENES, TOTAL UG/L										1.0000		UNV			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045365	045366	099110	120440	120445
TASK:	3.7	3.7	50.03.07	50.03.07	50.03.07
LAB:	IT	IT-KNOX	IT-KNOX	IT	IT
WELL OR BORING NUMBER:	1343	1343	1343	1343	1343
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-JUL-90	13-JUL-90	18-DEC-92	08-JUL-93	09-JUL-93
NORTH COORDINATE:	481347.63	481347.63	481347.63	481347.63	481347.63
EAST COORDINATE:	1380490.25	1380490.25	1380490.25	1380490.25	1380490.25
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													382.0000		-
AMMONIA	MG/L													0.1000		U
CHLORIDE	MG/L													198.9700		-
FLUORIDE	MG/L													0.4100		-
NITRATE	MG/L				0.3000		J							0.1000		U
PHENOLS	MG/L													0.0100		U
PHOSPHORUS	MG/L													0.2600		-
SULFATE	MG/L													61.5600		-
SULFIDE	MG/L													0.5000		U
TOTAL KJELDAHL NITROGEN	MG/L													0.2200		-
TOTAL ORGANIC CARBON	MG/L													2.4100		-
TOTAL ORGANIC HALIDES	MG/L													0.0268		-
TOTAL ORGANIC NITROGEN	MG/L													0.2200		-
INORGANICS																
ALUMINUM	MG/L							0.0300		U				0.2350		-
ANTIMONY	MG/L							0.0050		U				0.0050		U
ARSENIC	MG/L							0.0020		U				0.0020		UJ
BARIUM	MG/L							0.0890		-				0.0847		-
BERYLLIUM	MG/L							0.0020		U				0.0020		U
CADMIUM	MG/L							0.0050		U				0.0050		U
CALCIUM	MG/L							144.0000		-				141.0000		-
CHROMIUM	MG/L							0.0100		U				0.0100		U
COBALT	MG/L							0.0100		U				0.0100		U
COPPER	MG/L							0.0100		U				0.0100		U
CYANIDE	MG/L							0.0020		U				0.0020		U
IRON	MG/L							0.0200		U				0.0220		-
LEAD	MG/L							0.0020		U				0.0020		U
MAGNESIUM	MG/L							53.0000		-				52.8000		-

001641

SAMPLE NUMBER:		045365			045366			099110			120440			120445		
LAB:								IT-KNOX						IT		
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							0.0441		-				0.0225		-
MERCURY	MG/L							0.0002		U				0.0002		U
MOLYBDENUM	MG/L							0.0200		U				0.0200		U
NICKEL	MG/L							0.0200		U				0.0200		U
POTASSIUM	MG/L							1.8000		-				2.2100		-
SELENIUM	MG/L							0.0020		UJ				0.0020		U
SILICON	MG/L							6.6700		-				6.8900		-
SILVER	MG/L							0.0100		U				0.0100		U
SODIUM	MG/L							78.0000		-				73.2000		-
THALLIUM	MG/L							0.0020		UJ				0.0020		UJ
VANADIUM	MG/L							0.0100		U				0.0100		U
ZINC	MG/L							0.0050		U				0.0050		U
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U						
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		U						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		U						
ALPHA-CHLORDANE	UG/L							0.5000		U						
AROCLOR-1016	UG/L							0.5000		U						
AROCLOR-1221	UG/L							0.5000		U						
AROCLOR-1232	UG/L							0.5000		U						
AROCLOR-1242	UG/L							0.5000		U						
AROCLOR-1248	UG/L							0.5000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		U						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		U						
GAMMA-CHLORDANE	UG/L							0.5000		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							1.0000		U						
RADIONUCLIDES																

001612

5704

SAMPLE NUMBER:		045365			045366			099110			120440			120445		
LAB:								IT/RSL			IT					
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	10.90001.1		R				2.5400	.00027	J	3.8700	.41	-			
URANIUM-234	PCI/L							1.2400	.39	J	1.4100	.39	-			
THORIUM-230	PCI/L										6.9200	1.53	J			
RADIUM-226	PCI/L							1.0000		UJ	0.1440	.0551	UJ			
URANIUM-235/236	PCI/L							0.2000		UJ	0.1830	.12	UJ			
THORIUM-232	PCI/L										0.1700	686	UJ			
THORIUM, TOTAL	UG/L										1.5600		UJ			
RADIUM-228	PCI/L							3.5700		UJ	1.4900	.77	UJ			
THORIUM-228	PCI/L										0.2900	.107	UJ			
NEPTUNIUM-237	PCI/L							0.5000		UJ	0.2000	.167	UJ			
PLUTONIUM-239/240	PCI/L							0.5000		UJ	0.0940	.0494	UJ			
PLUTONIUM-238	PCI/L							0.5000	.1	UJ	0.1163	.1062	UJ			
STRONTIUM-90	PCI/L							1.0000		UJ	0.6000	.353	UJ			
TECHNETIUM-99	PCI/L							16.5000		UJ	12.0000	7.37	UJ			
RUTHENIUM-106	PCI/L							150.0000		UJ	119.0000		UJ			
CESIUM-137	PCI/L							20.0000		UJ	11.4000		UJ			
GROSS ALPHA	PCI/L							8.4000		UNV						
GROSS BETA	PCI/L							6.6000		UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							50.0000		UJ						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							160.0000		-						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							50.0000		U						
2-NITROPHENOL	UG/L							2.0000		J						
3,3'-DICHLOROBENZIDINE	UG/L							20.0000		U						
3-NITROANILINE	UG/L							50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							50.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							200.0000		-						
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U						

SAMPLE NUMBER:		045365			045366			099110			120440			120445		
LAB:								IT-KNOX								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-METHYLPHENOL	UG/L							10.0000		U						
4-NITROANILINE	UG/L							50.0000		U						
4-NITROPHENOL	UG/L							80.0000		-						
ACENAPHTHENE	UG/L							3.0000		J						
ACENAPHTHYLENE	UG/L							10.0000		U						
ANTHRACENE	UG/L							10.0000		U						
BENZO(A)ANTHRACENE	UG/L							10.0000		U						
BENZO(A)PYRENE	UG/L							10.0000		U						
BENZO(B)FLUORANTHENE	UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U						
BENZO(K)FLUORANTHENE	UG/L							10.0000		U						
BENZOIC ACID	UG/L							50.0000		UJ						
BENZYL ALCOHOL	UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		UJ						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U						
CHRYSENE	UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U						
DIBENZOFURAN	UG/L							10.0000		U						
DIETHYL PHTHALATE	UG/L							10.0000		U						
DIMETHYL PHTHALATE	UG/L							10.0000		U						
FLUORANTHENE	UG/L							10.0000		U						
FLUORENE	UG/L							10.0000		U						
HEXACHLOROBENZENE	UG/L							10.0000		U						
HEXACHLOROBUTADIENE	UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U						
HEXACHLOROETHANE	UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U						
ISOPHORONE	UG/L							10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							2.0000		J						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U						
NAPHTHALENE	UG/L							10.0000		U						
NITROBENZENE	UG/L							10.0000		U						
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L							94.0000		-						
PHENANTHRENE	UG/L							10.0000		U						
PHENOL	MG/L							80.0000		-						
PYRENE	UG/L							5.0000		J						
TRIBUTYL PHOSPHATE	UG/L							10.0000		U						

VOLATILES

1,1,1-TRICHLOROETHANE	UG/L						10.0000		U				10.0000		UJ

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1118

SAMPLE NUMBER:	045365	045366	099110	120440	120445
LAB:			IT-KNOX		IT
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U				10.0000		UJ
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U				10.0000		UJ
1,1-DICHLOROETHANE	UG/L							2.0000		J				3.0000		J
1,1-DICHLOROETHENE	UG/L							10.0000		U				10.0000		UJ
1,2-DICHLOROETHANE	UG/L							10.0000		U				10.0000		UJ
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U				10.0000		UJ
1,2-DICHLOROPROPANE	UG/L							10.0000		U				10.0000		UJ
2-BUTANONE	UG/L							10.0000		U				10.0000		UJ
2-HEXANONE	UG/L							10.0000		UJ				10.0000		UJ
4-METHYL-2-PENTANONE	UG/L							10.0000		UJ				10.0000		UJ
ACETONE	UG/L							10.0000		U				10.0000		UJ
BENZENE	UG/L							10.0000		U				10.0000		UJ
BROMODICHLOROMETHANE	UG/L							10.0000		U				10.0000		UJ
BROMOFORM	UG/L							10.0000		U				10.0000		UJ
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U				10.0000		UJ
CARBON TETRACHLORIDE	UG/L							10.0000		U				10.0000		UJ
CHLOROBENZENE	UG/L							10.0000		U				10.0000		UJ
CHLOROETHANE	UG/L							10.0000		UJ				10.0000		UJ
CHLOROFORM	UG/L							10.0000		U				10.0000		UJ
CHLOROMETHANE	UG/L							10.0000		U				10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U				10.0000		UJ
DIBROMOCHLOROMETHANE	UG/L							10.0000		U				10.0000		UJ
ETHYLBENZENE	UG/L							10.0000		U				10.0000		UJ
METHYLENE CHLORIDE	UG/L							10.0000		UJ				10.0000		U
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U				10.0000		UJ
TOLUENE	UG/L							10.0000		U				10.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U				10.0000		UJ
TRICHLOROETHENE	UG/L							10.0000		U				1.0000		J
VINYL ACETATE	UG/L							10.0000		UJ				10.0000		UJ
VINYL CHLORIDE	UG/L							10.0000		U				10.0000		UJ
XYLENES, TOTAL	UG/L							10.0000		U				10.0000		UJ

001615

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_327	045318	045319	045966	099037
TASK:	GWMON	3.7	3.7	3.7	50.03.07
LAB:	NET	IT	IT	IT	IT
WELL OR BORING NUMBER:	1343	1344	1344	1344	1344
DEPTH:	-	-	-	-	-
DATE COLLECTED:	11-OCT-90	05-OCT-89	05-OCT-89	03-FEB-90	04-NOV-92
NORTH COORDINATE:	481347.63	481363.02	481363.02	481363.02	481363.02
EAST COORDINATE:	1380490.25	1380728.33	1380728.33	1380728.33	1380728.33
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.0600		NV												
CHLORIDE	MG/L	322.0000		NV												
FLUORIDE	MG/L	0.5900		NV												
NITRATE	MG/L							0.1000		U	0.1700		-			
NITRATE/NITRITE	MG/L	0.0200		NV												
PHOSPHORUS	MG/L	0.6400		NV												
SULFATE	MG/L	72.0000		NV												
INORGANICS																
ALUMINUM	MG/L	0.5000		UNV												
ANTIMONY	MG/L	0.0250		UNV												
ARSENIC	MG/L	0.0025		UNV												
BARIUM	MG/L	0.2000		UNV												
BERYLLIUM	MG/L	0.0100		UNV												
CADMIUM	MG/L	0.0010		UNV												
CALCIUM	MG/L	125.0000		NV												
CHROMIUM	MG/L	0.0050		UNV												
COBALT	MG/L	0.0250		UNV												
COPPER	MG/L	0.0250		UNV												
CYANIDE	MG/L	0.0050		UNV												
IRON	MG/L	0.0500		UNV												
LEAD	MG/L	0.0050		UNV												
MAGNESIUM	MG/L	65.0000		NV												
MANGANESE	MG/L	0.3630		NV												
MERCURY	MG/L	0.0002		UNV												
MOLYBDENUM	MG/L	0.0250		UNV												
NICKEL	MG/L	0.0050		UNV												
POTASSIUM	MG/L	4.1600		NV												
SELENIUM	MG/L	0.0025		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_327		045318			045319			045966			099037		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L	0.0010		UNV												
SODIUM	MG/L	65.0000		NV												
THALLIUM	MG/L	0.0100		UNV												
VANADIUM	MG/L	0.0500		UNV												
ZINC	MG/L	0.0200		UNV												
MISC																
3-METHYLPHENOL	UG/L	4.0000		UNV												
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000		UNV												
PESTICIDES																
4,4'-DDD	UG/L	0.2000		UNV										0.1000		U
4,4'-DDE	UG/L	0.2000		UNV										0.1000		U
4,4'-DDT	UG/L	0.2000		UNV										0.1000		U
ALDRIN	UG/L	0.2000		UNV										0.0500		U
ALPHA-BHC	UG/L	0.2000		UNV										0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L	0.2000		UNV										0.5000		U
AROCLOR-1221	UG/L	0.2000		UNV										0.5000		U
AROCLOR-1232	UG/L	0.2000		UNV										0.5000		U
AROCLOR-1242	UG/L	0.2000		UNV										0.5000		U
AROCLOR-1248	UG/L	0.2000		UNV										0.5000		U
AROCLOR-1254	UG/L	0.2000		UNV										1.0000		U
AROCLOR-1260	UG/L	0.2000		UNV										1.0000		U
BETA-BHC	UG/L	0.2000		UNV										0.0500		U
CHLORDANE	UG/L	0.2000		UNV												
DELTA-BHC	UG/L	0.2000		UNV										0.0500		U
DIELDRIN	UG/L	0.2000		UNV										0.1000		U
ENDOSULFAN II	UG/L	0.2000		UNV										0.1000		U
ENDOSULFAN SULFATE	UG/L	0.2000		UNV										0.1000		U
ENDOSULFAN-I	UG/L	0.2000		UNV										0.0500		U
ENDRIN	UG/L	0.2000		UNV										0.1000		U
ENDRIN ALDEHYDE	UG/L	0.2000		UNV												
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L	0.2000		UNV										0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L	0.2000		UNV										0.0500		U
HEPTACHLOR EPOXIDE	UG/L	0.2000		UNV										0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L	0.5000		UNV										1.0000		U
RADIONUCLIDES																

001619100

URANIUM, TOTAL	UG/L				42.0000	7	-				65.7000	11.4	-				
06/21/94																	

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1121

SAMPLE NUMBER:	EMGW_SYSGEN_327	045318	045319	045966	099037
LAB:		IT		IT	
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
GROSS ALPHA	PCI/L													7.9000		UNV
GROSS BETA	PCI/L													6.5000		UNV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	4.0000		UNV										10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L	4.0000		UNV										10.0000		U
1,4-DICHLOROBENZENE	UG/L	4.0000		UNV										10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	4.0000		UNV										50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L	4.0000		UNV										10.0000		U
2,4-DICHLOROPHENOL	UG/L	4.0000		UNV										10.0000		U
2,4-DIMETHYLPHENOL	UG/L	4.0000		UNV										10.0000		U
2,4-DINITROPHENOL	UG/L	4.0000		UNV										50.0000		UJ
2,4-DINITROTOLUENE	UG/L	15.0000		UNV										10.0000		U
2,6-DINITROTOLUENE	UG/L	15.0000		UNV										10.0000		U
2-CHLOROETHYLVINYL ETHER	UG/L	10.0000		UNV												
2-CHLORONAPHTHALENE	UG/L	4.0000		UNV										10.0000		U
2-CHLOROPHENOL	UG/L	4.0000		UNV										10.0000		U
2-METHYLNAPHTHALENE	UG/L	4.0000		UNV										10.0000		U
2-METHYLPHENOL	UG/L	4.0000		UNV										10.0000		U
2-NITROANILINE	UG/L	15.0000		UNV										50.0000		U
2-NITROPHENOL	UG/L	4.0000		UNV										10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L	15.0000		UNV										20.0000		U
3-NITROANILINE	UG/L	15.0000		UNV										50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000		UNV										50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000		UNV										10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000		UNV										10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000		UNV										10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L	15.0000		UNV										50.0000		U
4-NITROPHENOL	UG/L	4.0000		UNV										50.0000		U
ACENAPHTHENE	UG/L	4.0000		UNV										10.0000		U
ACENAPHTHYLENE	UG/L	4.0000		UNV										10.0000		U
ANTHRACENE	UG/L	4.0000		UNV										10.0000		U
BENZO(A)ANTHRACENE	UG/L	4.0000		UNV										10.0000		U
BENZO(A)PYRENE	UG/L	4.0000		UNV										10.0000		U
BENZO(B)FLUORANTHENE	UG/L	4.0000		UNV										10.0000		U
BENZO(G,H,I)PERYLENE	UG/L	4.0000		UNV										10.0000		U
BENZO(K)FLUORANTHENE	UG/L	4.0000		UNV										10.0000		U
BENZOIC ACID	UG/L	4.0000		UNV										50.0000		U
BENZYL ALCOHOL	UG/L	40.0000		UNV										10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000		UNV										10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000		UNV										10.0000		U

SAMPLE NUMBER:		EMGW_SYSGEN_327		045318		045319		045966		099037	
LAB:		NET								IT	
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	15.0000	UNV							10.0000	U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4.0000	UNV							10.0000	U
BUTYL BENZYL PHTHALATE	UG/L	4.0000	UNV							10.0000	U
CHRYSENE	UG/L	4.0000	UNV							10.0000	U
DI-N-BUTYL PHTHALATE	UG/L	4.0000	UNV							10.0000	U
DI-N-OCTYL PHTHALATE	UG/L	4.0000	UNV							10.0000	U
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000	UNV							10.0000	U
DIBENZOFURAN	UG/L	4.0000	UNV							10.0000	U
DIETHYL PHTHALATE	UG/L	4.0000	UNV							10.0000	U
DIMETHYL PHTHALATE	UG/L	4.0000	UNV							10.0000	U
FLUORANTHENE	UG/L	4.0000	UNV							10.0000	U
FLUORENE	UG/L	4.0000	UNV							10.0000	U
HEXACHLOROBENZENE	UG/L	4.0000	UNV							10.0000	U
HEXACHLOROBUTADIENE	UG/L	4.0000	UNV							10.0000	U
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000	UNV							10.0000	U
HEXACHLOROETHANE	UG/L	4.0000	UNV							10.0000	U
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000	UNV							10.0000	U
ISOPHORONE	UG/L	4.0000	UNV							10.0000	U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000	UNV							10.0000	U
N-NITROSODIPHENYLAMINE	UG/L	4.0000	UNV							10.0000	U
NAPHTHALENE	UG/L	4.0000	UNV							10.0000	U
NITROBENZENE	UG/L	4.0000	UNV							10.0000	U
P-CHLOROANILINE	UG/L	4.0000	UNV							10.0000	U
PENTACHLOROPHENOL	UG/L	4.0000	UNV							50.0000	U
PHENANTHRENE	UG/L	4.0000	UNV							10.0000	U
PHENOL	MG/L	4.0000	UNV							10.0000	U
PYRENE	UG/L	4.0000	UNV							10.0000	U
TRIBUTYL PHOSPHATE	UG/L									10.0000	U
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	1.0000	UNV							5.0000	U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000	UNV							5.0000	U
1,1,2-TRICHLOROETHANE	UG/L	1.0000	UNV							5.0000	U
1,1-DICHLOROETHANE	UG/L	1.0000	UNV							5.0000	U
1,1-DICHLOROETHENE	UG/L	1.0000	UNV							5.0000	U
1,2-DICHLOROETHANE	UG/L	1.0000	UNV							5.0000	U
1,2-DICHLOROETHENE (TOTAL)	UG/L	1.0000	UNV							5.0000	U
1,2-DICHLOROPROPANE	UG/L	1.0000	UNV							5.0000	U
2-BUTANONE	UG/L	2.0000	UNV							10.0000	UJ
2-HEXANONE	UG/L	2.0000	UNV							10.0000	UJ
4-METHYL-2-PENTANONE	UG/L	2.0000	UNV							10.0000	UJ
ACETONE	UG/L	2.0000	UNV							10.0000	UJ
BENZENE	UG/L	1.0000	UNV							5.0000	U
BROMODICHLOROMETHANE	UG/L	1.0000	UNV							5.0000	U

SAMPLE NUMBER:	EMGW_SYSGEN_327	045318	045319	045966	099037
LAB:	NET				IT
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOFORM	UG/L	1.0000		UNV										5.0000		U
BROMOMETHANE	UG/L	1.0000		UNV										10.0000		U
CARBON DISULFIDE	UG/L	1.0000		UNV										5.0000		U
CARBON TETRACHLORIDE	UG/L	1.0000		UNV										5.0000		U
CHLOROBENZENE	UG/L	1.0000		UNV										5.0000		U
CHLOROETHANE	UG/L	1.0000		UNV										10.0000		U
CHLOROFORM	UG/L	1.0000		UNV										5.0000		U
CHLOROMETHANE	UG/L	1.0000		UNV										10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV										5.0000		U
DIBROMOCHLOROMETHANE	UG/L	1.0000		UNV										5.0000		U
ETHYLBENZENE	UG/L	1.0000		UNV										5.0000		U
METHYLENE CHLORIDE	UG/L	1.0000		UNV										5.0000		U
STYRENE	UG/L	1.0000		UNV										5.0000		U
TETRACHLOROETHENE	UG/L	1.0000		UNV										5.0000		U
TOLUENE	UG/L	1.0000		UNV										5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV										5.0000		U
TRICHLOROETHENE	UG/L	1.0000		UNV										5.0000		U
VINYL ACETATE	UG/L	2.0000		UNV										10.0000		U
VINYL CHLORIDE	UG/L	1.0000		UNV										10.0000		U
XYLENES, TOTAL	UG/L	1.0000		UNV										5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		099054			099055			108871			108897			108899		
TASK:		50.03.07			50.03.07			50.03.07			50.03.07			50.03.07		
LAB:		IT-KNOX			FERMCO			IT			IT			IT-KNOX		
WELL OR BORING NUMBER:		1344			1344			1344			1344			1344		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		10-NOV-92			10-NOV-92			14-MAY-93			25-FEB-93			24-FEB-93		
NORTH COORDINATE:		481363.02			481363.02			481363.02			481363.02			481363.02		
EAST COORDINATE:		1380728.33			1380728.33			1380728.33			1380728.33			1380728.33		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	468.0000		-												
AMMONIA	MG/L	0.4900		-										0.4600		-
CHLORIDE	MG/L	18.0000		-										93.6000		-
FLUORIDE	MG/L	1.0200		-										0.9200		-
NITRATE	MG/L	0.1000		UJ										0.1470		-
PHENOLS	MG/L	0.0100		U										0.0100		U
PHOSPHORUS	MG/L	1.1800		-										0.4300		-
SULFATE	MG/L	289.5000		-										294.5000		-
SULFIDE	MG/L	0.5000		U												
TOTAL ORGANIC CARBON	MG/L	1.5600		J										1.2620		-
TOTAL ORGANIC HALIDES	MG/L	0.0121		-										10.0000		U
TOTAL ORGANIC NITROGEN	MG/L	0.1000		U										0.1600		-
INORGANICS																
ALUMINUM	MG/L	0.0317		U												
ANTIMONY	MG/L	0.0054		U												
ARSENIC	MG/L	0.0036		-												
BARIUM	MG/L	0.0542		-												
BERYLLIUM	MG/L	0.0020		U												
CADMIUM	MG/L	0.0050		U												
CALCIUM	MG/L	149.0000		-												
CHROMIUM	MG/L	0.0100		U												
COBALT	MG/L	0.0100		U												
COPPER	MG/L	0.0100		U												
CYANIDE	MG/L	0.0020		UJ												
IRON	MG/L	0.6580		-												
LEAD	MG/L	0.0025		U												
MAGNESIUM	MG/L	79.9000		-												
MANGANESE	MG/L	0.0464		-												

001621

SAMPLE NUMBER:	099054			099055			108871			108897			108899		
LAB:	IT/MWL														
SUFFIX/FILTERFLAG:	NONE-FIL			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U												
MOLYBDENUM	MG/L	0.0200		U												
NICKEL	MG/L	0.0200		U												
POTASSIUM	MG/L	2.8000		-												
SELENIUM	MG/L	0.0020		U												
SILICON	MG/L	9.7200		-												
SILVER	MG/L	0.0100		U												
SODIUM	MG/L	18.8000		-												
THALLIUM	MG/L	0.0020		U												
VANADIUM	MG/L	0.0100		U												
ZINC	MG/L	0.0088		-												
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U						
4,4'-DDE	UG/L							0.1000		U						
4,4'-DDT	UG/L							0.1000		U						
ALDRIN	UG/L							0.0500		U						
ALPHA-BHC	UG/L							0.0500		U						
ALPHA-CHLORDANE	UG/L							0.0500		U						
AROCLOR-1016	UG/L							1.0000		U						
AROCLOR-1221	UG/L							2.0000		U						
AROCLOR-1232	UG/L							1.0000		U						
AROCLOR-1242	UG/L							1.0000		U						
AROCLOR-1248	UG/L							1.0000		U						
AROCLOR-1254	UG/L							1.0000		U						
AROCLOR-1260	UG/L							1.0000		U						
BETA-BHC	UG/L							0.0500		U						
DELTA-BHC	UG/L							0.0500		U						
DIELDRIN	UG/L							0.1000		U						
ENDOSULFAN II	UG/L							0.1000		U						
ENDOSULFAN SULFATE	UG/L							0.1000		U						
ENDOSULFAN-I	UG/L							0.0500		U						
ENDRIN	UG/L							0.1000		U						
ENDRIN ALDEHYDE	UG/L							0.1000		U						
ENDRIN KETONE	UG/L							0.1000		U						
GAMMA-BHC (LINDANE)	UG/L							0.0500		U						
GAMMA-CHLORDANE	UG/L							0.0500		U						
HEPTACHLOR	UG/L							0.0500		U						
HEPTACHLOR EPOXIDE	UG/L							0.0500		U						
METHOXYCHLOR	UG/L							0.5000		U						
TOXAPHENE	UG/L							5.0000		U						
RADIONUCLIDES																

001622

5794

URANIUM-238	PCI/L	3.0000	1.2	J								1.0000	.3	J				
SAMPLE NUMBER:		099054			099055			108871			108897			108899				
LAB:		IT									IT							
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			NONE-UNF			-				
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)		
RADIONUCLIDES																		
URANIUM, TOTAL	UG/L	3.1800	.34	-	3.7000		NV				2.1900	.23	-					
URANIUM-234	PCI/L	2.7000	1.2	J							1.1800	.33	J					
THORIUM-230	PCI/L	0.5000		UJ							0.2000	.1	UJ					
RADIUM-226	PCI/L	1.0000	.1	UJ							1.0000	.1	UJ					
URANIUM-235/236	PCI/L	1.2000		UJ							0.2000		UJ					
THORIUM-232	PCI/L	0.5000		UJ							0.2000		UJ					
THORIUM, TOTAL	UG/L	4.6000		UJ							0.8200		UJ					
RADIUM-228	PCI/L	3.0000		UJ							3.0000		UJ					
THORIUM-228	PCI/L	0.8000		UJ							0.2000		UJ					
NEPTUNIUM-237	PCI/L	0.5000	.2	UJ							0.5000		UJ					
PLUTONIUM-239/240	PCI/L	0.5000	.1	UJ							0.5000		UJ					
PLUTONIUM-238	PCI/L	0.5000		UJ							0.5000		UJ					
STRONTIUM-90	PCI/L	1.0000		UJ							1.4000		UJ					
TECHNETIUM-99	PCI/L	15.0000		UJ							15.0000		UJ					
RUTHENIUM-106	PCI/L	150.0000		UJ							150.0000		UJ					
CESIUM-137	PCI/L	9.3000		UJ							16.0000		UJ					
GROSS ALPHA	PCI/L	12.0000		UNV							12.6000		UNV	12.0000		UNV		
GROSS BETA	PCI/L	7.8000		UNV							10.6000	6.5	NV	10.0000		UNV		
SEMIVOLATILES																		
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		UJ								
1,2-DICHLOROBENZENE	UG/L							10.0000		U								
1,3-DICHLOROBENZENE	UG/L							10.0000		U								
1,4-DICHLOROBENZENE	UG/L							10.0000		U								
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U								
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U								
2,4-DICHLOROPHENOL	UG/L							10.0000		U								
2,4-DIMETHYLPHENOL	UG/L							10.0000		U								
2,4-DINITROPHENOL	UG/L							50.0000		UJ								
2,4-DINITROTOLUENE	UG/L							10.0000		U								
2,6-DINITROTOLUENE	UG/L							10.0000		U								
2-BENZYL-4-CHLOROPHENOL	UG/L							10.0000		U								
2-CHLORONAPHTHALENE	UG/L							10.0000		U								
2-CHLOROPHENOL	UG/L							10.0000		U								
2-METHYLNAPHTHALENE	UG/L							10.0000		U								
2-METHYLPHENOL	UG/L							10.0000		U								
2-NITROANILINE	UG/L							25.0000		U								
2-NITROPHENOL	UG/L							10.0000		U								
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U								
3-NITROANILINE	UG/L							25.0000		U								
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UJ								
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U								
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U								

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		108901			GW930527-3			045347			045348			045349		
TASK:		50.03.07			50.03.23			3.7			3.7			3.7		
LAB:		IT/MWL			CORE			IT			IT			IT		
WELL OR BORING NUMBER:		1344			1344			1345			1345			1345		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		23-FEB-93			28-MAY-93			06-OCT-89			06-OCT-89			13-JUL-90		
NORTH COORDINATE:		481363.02			481363.02			481240.48			481240.48			481240.48		
EAST COORDINATE:		1380728.33			1380728.33			1380144.5			1380144.5			1380144.5		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.1000		U			
INORGANICS																
ALUMINUM	MG/L	0.2760		U												
ANTIMONY	MG/L	0.0050		UJ												
ARSENIC	MG/L	0.0031		UJ												
BARIUM	MG/L	0.0518		-												
BERYLLIUM	MG/L	0.0020		U												
CADMIUM	MG/L	0.0050		U												
CALCIUM	MG/L	150.0000		-												
CHROMIUM	MG/L	0.0100		U												
COBALT	MG/L	0.0100		U												
COPPER	MG/L	0.0100		U												
IRON	MG/L	0.4580		-												
LEAD	MG/L	0.0020		U												
MAGNESIUM	MG/L	78.6000		-												
MANGANESE	MG/L	0.0547		-												
MERCURY	MG/L	0.0002		U												
MOLYBDENUM	MG/L	0.0200		U												
NICKEL	MG/L	0.0200		U												
POTASSIUM	MG/L	2.6600		-												
SELENIUM	MG/L	0.0020		UJ												
SILICON	MG/L	8.6200		-												
SILVER	MG/L	0.0100		U												
SODIUM	MG/L	18.8000		-												
THALLIUM	MG/L	0.0020		U												
VANADIUM	MG/L	0.0100		U												
ZINC	MG/L	0.0050		U												

RADIONUCLIDES

URANIUM-238 PCI/L 1.1000 .2 -
06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		108901			GW930527-3			045347			045348			045349		
LAB:					CORE											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				3.7000	.3	-	2.0000	1	-				9.3700	1	R
URANIUM-234	PCI/L				0.8000	.6	J									
THORIUM-230	PCI/L				0.3000	.2	UJ									
RADIUM-226	PCI/L				1.0000	.4	UJ									
URANIUM-235/236	PCI/L				0.2000	.1	UJ									
THORIUM-232	PCI/L				0.2000	.1	UJ									
THORIUM, TOTAL	UG/L				1.8240	.1	NV									
RADIUM-228	PCI/L				5.8000	1.8	-									
THORIUM-228	PCI/L				0.4000	.2	J									
TECHNETIUM-99	PCI/L				15.0000	8.1	U									
GROSS ALPHA	PCI/L				6.3000	3.1	UNV									
GROSS BETA	PCI/L				4.7000	2.8	UNV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		UJ												
2-HEXANONE	UG/L	10.0000		UJ												
4-METHYL-2-PENTANONE	UG/L	10.0000		UJ												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	14.0000		U												

SAMPLE NUMBER:	108901	GW930527-3	045347	045348	045349
LAB:	IT/MWL				
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	-

		108901 RESULT	108901 SIGMA	108901 VAL QUAL(1)	GW930527-3 RESULT	GW930527-3 SIGMA	GW930527-3 VAL QUAL(1)	045347 RESULT	045347 SIGMA	045347 VAL QUAL(1)	045348 RESULT	045348 SIGMA	045348 VAL QUAL(1)	045349 RESULT	045349 SIGMA	045349 VAL QUAL(1)
VOLATILES																
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045970	EMGW_SYSGEN_328	GW930527-6	046812	046813
TASK:	3.7	GWMON	RA7 PL1PAD	3.7	3.7
LAB:	IT-KNOX	NET	NET	IT	IT
WELL OR BORING NUMBER:	1345	1345	1345	1346	1346
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-JUL-90	11-OCT-90	28-MAY-93	19-JAN-90	30-JUL-90
NORTH COORDINATE:	481240.48	481240.48	481240.48	481245.67	481245.67
EAST COORDINATE:	1380144.5	1380144.5	1380144.5	1380178.9	1380178.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							434.0000		-						
AMMONIA	MG/L				2.1900		NV	1.9200		-						
BICARBONATE ALKALINITY	MG/L							616.0000		-						
CARBONATE ALKALINITY	MG/L							3.0000		U						
CHLORIDE	MG/L				68.0000		NV	78.0000		-						
FLUORIDE	MG/L				0.5800		NV	0.2600		-						
NITRATE	MG/L	0.1800		J							0.1000		U			
NITRATE/NITRITE	MG/L				0.0200		UNV									
NITRITE, AS NITROGEN	MG/L							0.0200		U						
PH	STD							7.3400		-						
PHENOLS	MG/L							0.0100		U						
PHOSPHORUS	MG/L				1.6700		NV	0.2300		R						
SPECIFIC CONDUCTIVITY	UMHOS/CM							965.0000		-						
SULFATE	MG/L				1.0000		UNV	9.0000		-						
TOTAL DISSOLVED SOLIDS	MG/L							596.0000		-						
TOTAL KJELDAHL NITROGEN	MG/L							2.7800		-						
TOTAL ORGANIC CARBON	MG/L							10.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0580		-						
TOTAL ORGANIC NITROGEN	MG/L							0.8600		-						
TOTAL SOLIDS	MG/L							1000.0000		-						
INORGANICS																
ALUMINUM	MG/L				20.3000		NV	0.0200		U						
ANTIMONY	MG/L				0.0250		UNV	0.0450		U						
ARSENIC	MG/L				0.0070		NV	0.1040		R						
BARIUM	MG/L				0.2260		NV	0.2620		-						
BERYLLIUM	MG/L				0.0100		UNV	0.0010		U						
CADMIUM	MG/L				0.0050		NV	0.0079		-						
CALCIUM	MG/L				202.0000		NV	122.0000		-						

001627

SAMPLE NUMBER:	045970	EMGW_SYSGEN_328	GW930527-6	046812	046813
LAB:		NET	NET		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CHROMIUM	MG/L				0.0050		UNV	0.0050		U						
COBALT	MG/L				0.0250		UNV	0.0080		U						
COPPER	MG/L				0.0250		UNV	0.0030		U						
CYANIDE	MG/L				0.0050		UNV	0.0100		R						
IRON	MG/L				2.4000		NV	36.3000		J						
LEAD	MG/L				0.0790		NV	0.0023		-						
MAGNESIUM	MG/L				83.0000		NV	1.9900		-						
MANGANESE	MG/L				2.1600		NV	1.3000		-						
MERCURY	MG/L				0.0002		UNV	0.0002		UJ						
MOLYBDENUM	MG/L				0.0250		UNV									
NICKEL	MG/L				0.0050		UNV	0.0200		U						
POTASSIUM	MG/L				10.6000		NV	29.6000		J						
SELENIUM	MG/L				0.0025		UNV	0.0033		J						
SILVER	MG/L				0.0010		UNV	0.0070		U						
SODIUM	MG/L				17.4000		NV	58.1000		-						
THALLIUM	MG/L				0.0100		UNV	0.0020		UJ						
VANADIUM	MG/L				0.0890		NV	0.0051		-						
ZINC	MG/L				0.2130		NV	0.0301		J						
MISC																
3-METHYLPHENOL	UG/L				4.0000		UNV									
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV									
PESTICIDES																
4,4'-DDD	UG/L				0.2000		UNV									
4,4'-DDE	UG/L				0.2000		UNV									
4,4'-DDT	UG/L				0.2000		UNV									
ALDRIN	UG/L				0.2000		UNV									
ALPHA-BHC	UG/L				0.2000		UNV									
AROCLOR-1016	UG/L				0.2000		UNV									
AROCLOR-1221	UG/L				0.2000		UNV									
AROCLOR-1232	UG/L				0.2000		UNV									
AROCLOR-1242	UG/L				0.2000		UNV									
AROCLOR-1248	UG/L				0.2000		UNV									
AROCLOR-1254	UG/L				0.2000		UNV									
AROCLOR-1260	UG/L				0.2000		UNV									
BETA-BHC	UG/L				0.2000		UNV									
CHLORDANE	UG/L				0.2000		UNV									
DELTA-BHC	UG/L				0.2000		UNV									
DIELDRIN	UG/L				0.2000		UNV									
ENDOSULFAN II	UG/L				0.2000		UNV									
ENDOSULFAN SULFATE	UG/L				0.2000		UNV									
ENDOSULFAN-I	UG/L				0.2000		UNV									

SAMPLE NUMBER:	045970	EMGW_SYSGEN_328	GW930527-6	046812	046813
LAB:		NET			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		045970 RESULT	045970 SIGMA	045970 VAL QUAL(1)	EMGW_SYSGEN_328 RESULT	EMGW_SYSGEN_328 SIGMA	EMGW_SYSGEN_328 VAL QUAL(1)	GW930527-6 RESULT	GW930527-6 SIGMA	GW930527-6 VAL QUAL(1)	046812 RESULT	046812 SIGMA	046812 VAL QUAL(1)	046813 RESULT	046813 SIGMA	046813 VAL QUAL(1)
PESTICIDES																
ENDRIN	UG/L				0.2000		UNV									
ENDRIN ALDEHYDE	UG/L				0.2000		UNV									
GAMMA-BHC (LINDANE)	UG/L				0.2000		UNV									
HEPTACHLOR	UG/L				0.2000		UNV									
HEPTACHLOR EPOXIDE	UG/L				0.2000		UNV									
TOXAPHENE	UG/L				0.5000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L							1.0000	.4	J						
URANIUM, TOTAL	UG/L							0.7000		NV	9.5600	1.04	-	14.5000	2.3	J
URANIUM-234	PCI/L							1.0000	.8	J						
THORIUM-230	PCI/L							0.3000	.2	UJ						
RADIUM-226	PCI/L							0.8000	.2	UJ						
URANIUM-235/236	PCI/L							0.1000	.1	UJ						
THORIUM-232	PCI/L							0.1000	.2	UJ						
THORIUM, TOTAL	UG/L							0.9120	.2	NV						
RADIUM-228	PCI/L							1.5000	.9	UJ						
THORIUM-228	PCI/L							0.3000	.2	J						
TECHNETIUM-99	PCI/L							12.6000	7.5	U						
GROSS ALPHA	PCI/L							9.8000	5.4	UNV						
GROSS BETA	PCI/L							6.4000	3.6	UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				4.0000		UNV									
1,3-DICHLOROBENZENE	UG/L				4.0000		UNV									
1,4-DICHLOROBENZENE	UG/L				4.0000		UNV									
2,4,5-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4,6-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DIMETHYLPHENOL	UG/L				4.0000		UNV									
2,4-DINITROPHENOL	UG/L				4.0000		UNV									
2,4-DINITROTOLUENE	UG/L				15.0000		UNV									
2,6-DINITROTOLUENE	UG/L				15.0000		UNV									
2-CHLOROETHYLVINYL ETHER	UG/L				10.0000		UNV									
2-CHLORONAPHTHALENE	UG/L				4.0000		UNV									
2-CHLOROPHENOL	UG/L				4.0000		UNV									
2-METHYLNAPHTHALENE	UG/L				4.0000		UNV									
2-METHYLPHENOL	UG/L				4.0000		UNV									
2-NITROANILINE	UG/L				15.0000		UNV									
2-NITROPHENOL	UG/L				4.0000		UNV									
3,3'-DICHLOROBENZIDINE	UG/L				15.0000		UNV									
3-NITROANILINE	UG/L				15.0000		UNV									
4,6-DINITRO-2-METHYLPHENOL	UG/L				4.0000		UNV									

SAMPLE NUMBER:	045970	EMGW_SYSGEN_328	GW930527-6	046812	046813
LAB:		NET			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-BROMOPHENYL PHENYL ETHER	UG/L				15.0000		UNV									
4-CHLORO-3-METHYLPHENOL	UG/L				4.0000		UNV									
4-CHLOROPHENYLPHENYL ETHER	UG/L				15.0000		UNV									
4-NITROANILINE	UG/L				15.0000		UNV									
4-NITROPHENOL	UG/L				4.0000		UNV									
ACENAPHTHENE	UG/L				4.0000		UNV									
ACENAPHTHYLENE	UG/L				4.0000		UNV									
ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)PYRENE	UG/L				4.0000		UNV									
BENZO(B)FLUORANTHENE	UG/L				4.0000		UNV									
BENZO(G,H,I)PERYLENE	UG/L				4.0000		UNV									
BENZO(K)FLUORANTHENE	UG/L				4.0000		UNV									
BENZOIC ACID	UG/L				4.0000		UNV									
BENZYL ALCOHOL	UG/L				40.0000		UNV									
BIS(2-CHLOROETHOXY)METHANE	UG/L				15.0000		UNV									
BIS(2-CHLOROETHYL)ETHER	UG/L				15.0000		UNV									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				15.0000		UNV									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				4.0000		UNV									
BUTYL BENZYL PHTHALATE	UG/L				4.0000		UNV									
CHRYSENE	UG/L				4.0000		UNV									
DI-N-BUTYL PHTHALATE	UG/L				4.0000		UNV									
DI-N-OCTYL PHTHALATE	UG/L				4.0000		UNV									
DIBENZO(A,H)ANTHRACENE	UG/L				4.0000		UNV									
DIBENZOFURAN	UG/L				4.0000		UNV									
DIETHYL PHTHALATE	UG/L				4.0000		UNV									
DIMETHYL PHTHALATE	UG/L				4.0000		UNV									
FLUORANTHENE	UG/L				4.0000		UNV									
FLUORENE	UG/L				4.0000		UNV									
HEXACHLOROBENZENE	UG/L				4.0000		UNV									
HEXACHLOROBUTADIENE	UG/L				4.0000		UNV									
HEXACHLOROCYCLOPENTADIENE	UG/L				4.0000		UNV									
HEXACHLOROETHANE	UG/L				4.0000		UNV									
INDENO(1,2,3-CD)PYRENE	UG/L				4.0000		UNV									
ISOPHORONE	UG/L				4.0000		UNV									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				4.0000		UNV									
N-NITROSODIPHENYLAMINE	UG/L				4.0000		UNV									
NAPHTHALENE	UG/L				4.0000		UNV									
NITROBENZENE	UG/L				4.0000		UNV									
P-CHLOROANILINE	UG/L				4.0000		UNV									
PENTACHLOROPHENOL	UG/L				4.0000		UNV									
PHENANTHRENE	UG/L				4.0000		UNV									
PHENOL	MG/L				4.0000		UNV									
PYRENE	UG/L				4.0000		UNV									

VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L				1.0000		UNV	10.0000		U					

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1135

SAMPLE NUMBER:	045970	EMGW_SYSGEN_328	GW930527-6	046812	046813
LAB:		NET	NET		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				1.0000		UNV	10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L				1.0000		UNV	10.0000		U						
1,1-DICHLOROETHANE	UG/L				1.0000		UNV	10.0000		U						
1,1-DICHLOROETHENE	UG/L				1.0000		UNV	10.0000		U						
1,2-DICHLOROETHANE	UG/L				1.0000		UNV	10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L				1.0000		UNV	10.0000		U						
1,2-DICHLOROPROPANE	UG/L				1.0000		UNV	10.0000		U						
2-BUTANONE	UG/L				2.0000		UNV	10.0000		U						
2-HEXANONE	UG/L				2.0000		UNV	10.0000		U						
4-METHYL-2-PENTANONE	UG/L				2.0000		UNV	10.0000		U						
ACETONE	UG/L				2.0000		UNV	10.0000		U						
BENZENE	UG/L				1.0000		UNV	10.0000		U						
BROMODICHLOROMETHANE	UG/L				1.0000		UNV	10.0000		U						
BROMOFORM	UG/L				1.0000		UNV	10.0000		U						
BROMOMETHANE	UG/L				1.0000		UNV	10.0000		U						
CARBON DISULFIDE	UG/L				1.0000		UNV	10.0000		U						
CARBON TETRACHLORIDE	UG/L				1.0000		UNV	10.0000		U						
CHLOROBENZENE	UG/L				1.0000		UNV	10.0000		U						
CHLOROETHANE	UG/L				1.0000		UNV	10.0000		U						
CHLOROFORM	UG/L				1.0000		UNV	10.0000		U						
CHLOROMETHANE	UG/L				1.0000		UNV	10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	10.0000		U						
DIBROMOCHLOROMETHANE	UG/L				1.0000		UNV	10.0000		U						
ETHYLBENZENE	UG/L				1.0000		UNV	2.0000		J						
METHYLENE CHLORIDE	UG/L				1.0000		UNV	10.0000		U						
STYRENE	UG/L				1.0000		UNV	10.0000		U						
TETRACHLOROETHENE	UG/L				1.0000		UNV	10.0000		U						
TOLUENE	UG/L				1.0000		UNV	50.0000		-						
TRANS-1,3-DICHLOROPROPENE	UG/L				1.0000		UNV	10.0000		U						
TRICHLOROETHENE	UG/L				1.0000		UNV	10.0000		U						
VINYL ACETATE	UG/L				2.0000		UNV									
VINYL CHLORIDE	UG/L				1.0000		UNV	10.0000		U						
XYLENES, TOTAL	UG/L				1.0000		UNV	17.0000		-						

001631

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		046814				062995				062997				045301				045302		
TASK:		3.7				04.23				04.23				3.7				3.7		
LAB:		IT				IT/MWL				IT/MWL				IT				IT		
WELL OR BORING NUMBER:		1346				1346				1346				1347				1347		
DEPTH:		-				-				-				-				-		
DATE COLLECTED:		30-JUL-90				08-JUL-92				08-JUL-92				06-OCT-89				06-OCT-89		
NORTH COORDINATE:		481245.67				481245.67				481245.67				481151.6				481151.6		
EAST COORDINATE:		1380178.9				1380178.9				1380178.9				1379994.63				1379994.63		
QA TYPE:		NORMAL				NORMAL				DUPLICATE				NORMAL				NORMAL		
QC OF:										062995										
SUFFIX/FILTERFLAG:		NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U										0.1000		U
INORGANICS																
ALUMINUM	MG/L				0.0300		U	0.0300		U						
ANTIMONY	MG/L				0.0300		R	0.0300		R						
ARSENIC	MG/L				0.0054		J	0.0044		J						
BARIUM	MG/L				0.1550		-	0.1580		-						
BERYLLIUM	MG/L				0.0020		U	0.0020		U						
CADMIUM	MG/L				0.0050		UJ	0.0050		UJ						
CALCIUM	MG/L				176.0000		-	175.0000		-						
CHROMIUM	MG/L				0.0100		U	0.0100		U						
COBALT	MG/L				0.0100		U	0.0100		U						
COPPER	MG/L				0.0100		U	0.0100		U						
CYANIDE	MG/L				0.0020		U	0.0020		U						
IRON	MG/L				3.3300		-	3.1300		-						
LEAD	MG/L				0.0020		U	0.0020		U						
MAGNESIUM	MG/L				51.3000		-	51.3000		-						
MANGANESE	MG/L				1.2100		-	1.1900		-						
MERCURY	MG/L				0.0002		U	0.0002		U						
MOLYBDENUM	MG/L				0.0200		U	0.0200		U						
NICKEL	MG/L				0.0200		U	0.0200		U						
POTASSIUM	MG/L				0.5600		-	0.6210		-						
SELENIUM	MG/L				0.0020		U	0.0020		U						
SILICON	MG/L				10.6000		-	10.5000		-						
SILVER	MG/L				0.0100		R	0.0100		R						
SODIUM	MG/L				28.8000		-	28.4000		-						
THALLIUM	MG/L				0.0020		UJ	0.0020		UJ						
VANADIUM	MG/L				0.0100		U	0.0100		U						
ZINC	MG/L				0.0053		-	0.0050		U						

SAMPLE NUMBER:	046814	062995	062997	045301	045302
LAB:		IT/MWL	IT/MWL		
SUFFIX/FILTERFLAG:	-	F-FIL	F-FIL	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U	0.1000		U						
4,4'-DDE	UG/L				0.1000		U	0.1000		U						
4,4'-DDT	UG/L				0.1000		U	0.1000		U						
ALDRIN	UG/L				0.0500		U	0.0500		U						
ALPHA-BHC	UG/L				0.0500		U	0.0500		U						
ALPHA-CHLORDANE	UG/L				0.5000		U	0.5000		U						
AROCLOR-1016	UG/L				0.5000		U	0.5000		U						
AROCLOR-1221	UG/L				0.5000		U	0.5000		U						
AROCLOR-1232	UG/L				0.5000		U	0.5000		U						
AROCLOR-1242	UG/L				0.5000		U	0.5000		U						
AROCLOR-1248	UG/L				0.5000		U	0.5000		U						
AROCLOR-1254	UG/L				1.0000		U	1.0000		U						
AROCLOR-1260	UG/L				1.0000		U	1.0000		U						
BETA-BHC	UG/L				0.0500		U	0.0500		U						
DELTA-BHC	UG/L				0.0500		U	0.0500		U						
DIELDRIN	UG/L				0.1000		U	0.1000		U						
ENDOSULFAN II	UG/L				0.1000		U	0.1000		U						
ENDOSULFAN SULFATE	UG/L				0.1000		U	0.1000		U						
ENDOSULFAN-I	UG/L				0.0500		U	0.0500		U						
ENDRIN	UG/L				0.1000		U	0.1000		U						
ENDRIN KETONE	UG/L				0.1000		U	0.1000		U						
GAMMA-BHC (LINDANE)	UG/L				0.0500		U	0.0500		U						
GAMMA-CHLORDANE	UG/L				0.5000		U	0.5000		U						
HEPTACHLOR	UG/L				0.0500		U	0.0500		U						
HEPTACHLOR EPOXIDE	UG/L				0.0500		U	0.0500		U						
METHOXYCHLOR	UG/L				0.5000		U	0.5000		U						
TOXAPHENE	UG/L				1.0000		U	1.0000		U						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L										152.0000	25	-			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
1,2-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
1,3-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
1,4-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U	50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U	10.0000		U						
2,4-DICHLOROPHENOL	UG/L				10.0000		U	10.0000		U						
2,4-DIMETHYLPHENOL	UG/L				10.0000		U	10.0000		U						
2,4-DINITROPHENOL	UG/L				50.0000		U	50.0000		U						
2,4-DINITROTOLUENE	UG/L				10.0000		U	10.0000		U						
2,6-DINITROTOLUENE	UG/L				10.0000		U	10.0000		U						

SAMPLE NUMBER:		046814			062995			062997			045301			045302		
LAB:					IT/MWL			IT/MWL								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-CHLORONAPHTHALENE	UG/L				10.0000		U	10.0000		U						
2-CHLOROPHENOL	UG/L				10.0000		U	10.0000		U						
2-METHYLNAPHTHALENE	UG/L				10.0000		U	10.0000		U						
2-METHYLPHENOL	UG/L				10.0000		U	10.0000		U						
2-NITROANILINE	UG/L				50.0000		U	50.0000		U						
2-NITROPHENOL	UG/L				10.0000		U	10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		U	20.0000		U						
3-NITROANILINE	UG/L				50.0000		U	50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		U	50.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U	10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U	10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U	10.0000		U						
4-METHYLPHENOL	UG/L				10.0000		U	10.0000		U						
4-NITROANILINE	UG/L				50.0000		U	50.0000		U						
4-NITROPHENOL	UG/L				50.0000		U	50.0000		U						
ACENAPHTHENE	UG/L				10.0000		U	10.0000		U						
ACENAPHTHYLENE	UG/L				10.0000		U	10.0000		U						
ANTHRACENE	UG/L				10.0000		U	10.0000		U						
BENZO(A)ANTHRACENE	UG/L				10.0000		U	10.0000		U						
BENZO(A)PYRENE	UG/L				10.0000		U	10.0000		U						
BENZO(B)FLUORANTHENE	UG/L				10.0000		U	10.0000		U						
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ	10.0000		UJ						
BENZO(K)FLUORANTHENE	UG/L				10.0000		U	10.0000		U						
BENZOIC ACID	UG/L				50.0000		U	50.0000		U						
BENZYL ALCOHOL	UG/L				10.0000		U	10.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U	10.0000		U						
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U	10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U	10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U	10.0000		U						
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U	10.0000		U						
CARBAZOLE	UG/L				10.0000		U	10.0000		U						
CHRYSENE	UG/L				10.0000		U	10.0000		U						
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U	10.0000		U						
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U	10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U	10.0000		U						
DIBENZOFURAN	UG/L				10.0000		U	10.0000		U						
DIETHYL PHTHALATE	UG/L				10.0000		U	10.0000		U						
DIMETHYL PHTHALATE	UG/L				10.0000		U	10.0000		U						
FLUORANTHENE	UG/L				10.0000		U	10.0000		U						
FLUORENE	UG/L				10.0000		U	10.0000		U						
HEXACHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
HEXACHLOROBUTADIENE	UG/L				10.0000		U	10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UJ	10.0000		UJ						
HEXACHLOROETHANE	UG/L				10.0000		U	10.0000		U						
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U	10.0000		U						

SAMPLE NUMBER:	046814	062995	062997	045301	045302
LAB:		IT/MWL	IT/MWL		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
VINYL ACETATE	UG/L				10.0000		UJ	10.0000		UJ						
VINYL CHLORIDE	UG/L				10.0000		U	10.0000		U						
XYLENES, TOTAL	UG/L				5.0000		U	5.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045974	045975	045353	045354	045355
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT-KNOX	IT	IT	IT
WELL OR BORING NUMBER:	1347	1347	1348	1348	1348
DEPTH:	-	-	-	-	-
DATE COLLECTED:	13-JUL-90	13-JUL-90	22-JAN-90	28-JUL-90	28-JUL-90
NORTH COORDINATE:	481151.6	481151.6	481129.55	481129.55	481129.55
EAST COORDINATE:	1379994.63	1379994.63	1380247.52	1380247.52	1380247.52
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		U	0.1000		U				0.1000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	3.9400	.51	R				20.5000	4.4	J	12.9000	1.4	J			

001636

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	099113	120452	045312	045313	045985
TASK:	50.03.07	50.03.07	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1348	1348	1351	1351	1351
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-DEC-92	13-JUL-93	06-OCT-89	06-OCT-89	21-FEB-90
NORTH COORDINATE:	481129.55	481129.55	480940.44	480940.44	480940.44
EAST COORDINATE:	1380247.52	1380247.52	1379899.75	1379899.75	1379899.75
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				616.0000		-									
AMMONIA	MG/L				0.1700		-									
CHLORIDE	MG/L				104.5800		-									
FLUORIDE	MG/L				0.2300		-									
NITRATE	MG/L				0.1000		U				0.2760		-	0.1000		U
PHENOLS	MG/L				0.0100		U									
PHOSPHORUS	MG/L				1.4700		-									
SULFATE	MG/L				16.0100		-									
SULFIDE	MG/L				0.5000		U									
TOTAL KJELDAHL NITROGEN	MG/L				0.3100		-									
TOTAL ORGANIC CARBON	MG/L				3.2700		-									
TOTAL ORGANIC HALIDES	MG/L				0.0464		-									
TOTAL ORGANIC NITROGEN	MG/L				0.1400		-									
INORGANICS																
ALUMINUM	MG/L	0.0300		U	0.3060		-									
ANTIMONY	MG/L	0.0050		U	0.0050		U									
ARSENIC	MG/L	0.0020		U	0.0021		J									
BARIUM	MG/L	0.2050		-	0.1790		-									
BERYLLIUM	MG/L	0.0020		U	0.0020		U									
CADMIUM	MG/L	0.0050		U	0.0050		U									
CALCIUM	MG/L	201.0000		-	189.0000		-									
CHROMIUM	MG/L	0.0100		U	0.0100		U									
COBALT	MG/L	0.0100		U	0.0100		U									
COPPER	MG/L	0.0100		U	0.0100		U									
CYANIDE	MG/L	0.0020		U												
IRON	MG/L	3.1500		-	2.1200		-									
LEAD	MG/L	0.0020		U	0.0020		U									
MAGNESIUM	MG/L	59.7000		-	59.1000		-									

001637

SAMPLE NUMBER:		099113			120452			045312			045313			045985		
LAB:		IT-KNOX			IT											
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	2.3000		-	2.6200		-									
MERCURY	MG/L	0.0002		U	0.0002		U									
MOLYBDENUM	MG/L	0.0200		U	0.0200		U									
NICKEL	MG/L	0.0200		U	0.0200		U									
POTASSIUM	MG/L	0.3450		-	0.6330		-									
SELENIUM	MG/L	0.0020		U	0.0020		U									
SILICON	MG/L	9.4100		U	8.8200		-									
SILVER	MG/L	0.0100		U	0.0100		U									
SODIUM	MG/L	22.1000		-	23.8000		-									
THALLIUM	MG/L	0.0020		UJ	0.0020		U									
VANADIUM	MG/L	0.0100		U	0.0100		U									
ZINC	MG/L	0.0050		U	0.0050		U									
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U	0.1000		U									
4,4'-DDE	UG/L	0.1000		U	0.1000		U									
4,4'-DDT	UG/L	0.1000		U	0.1000		U									
ALDRIN	UG/L	0.0500		U	0.0500		U									
ALPHA-BHC	UG/L	0.0500		U	0.0500		U									
ALPHA-CHLORDANE	UG/L	0.5000		U	0.0500		U									
AROCLOR-1016	UG/L	0.5000		U	1.0000		U									
AROCLOR-1221	UG/L	0.5000		U	2.0000		U									
AROCLOR-1232	UG/L	0.5000		U	1.0000		U									
AROCLOR-1242	UG/L	0.5000		U	1.0000		U									
AROCLOR-1248	UG/L	0.5000		U	1.0000		U									
AROCLOR-1254	UG/L	1.0000		U	1.0000		U									
AROCLOR-1260	UG/L	1.0000		U	1.0000		U									
BETA-BHC	UG/L	0.0500		U	0.0500		U									
DELTA-BHC	UG/L	0.0500		U	0.0500		U									
DIELDRIN	UG/L	0.1000		U	0.1000		U									
ENDOSULFAN II	UG/L	0.1000		U	0.1000		U									
ENDOSULFAN SULFATE	UG/L	0.1000		U	0.1000		U									
ENDOSULFAN-I	UG/L	0.0500		U	0.0500		U									
ENDRIN	UG/L	0.1000		U	0.1000		U									
ENDRIN ALDEHYDE	UG/L				0.1000		U									
ENDRIN KETONE	UG/L	0.1000		U	0.1000		U									
GAMMA-BHC (LINDANE)	UG/L	0.0500		U	0.0500		U									
GAMMA-CHLORDANE	UG/L	0.5000		U	0.0500		U									
HEPTACHLOR	UG/L	0.0500		U	0.0500		U									
HEPTACHLOR EPOXIDE	UG/L	0.0500		U	0.0500		U									
METHOXYCHLOR	UG/L	0.5000		U	0.5000		U									
TOXAPHENE	UG/L	1.0000		U	5.0000		U									

001638

5704

RADIONUCLIDES																	
URANIUM-238	PCI/L	0.5000	.3	R	1.2300	.34	-										
06/21/94																	

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1144

SAMPLE NUMBER:		099113			120452			045312			045313			045985			
LAB:		IT/RSL			IT												
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			-			-			-			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
RADIONUCLIDES																	
URANIUM, TOTAL	UG/L	1.5100	.16	J	4.5500		-	11.0000	2	-				80.0000	9	-	
URANIUM-234	PCI/L	0.5000		R	0.8240	.26	J										
THORIUM-230	PCI/L				0.3440	.173	J										
RADIUM-226	PCI/L	1.0000		UJ	1.0000	.117	UJ										
URANIUM-235/236	PCI/L	0.3000		R	0.2000	.066	UJ										
THORIUM-232	PCI/L				0.2000	.0635	UJ										
THORIUM, TOTAL	UG/L				1.0800		UJ										
RADIUM-228	PCI/L	5.0000		UJ	3.0000	.78	UJ										
THORIUM-228	PCI/L				0.2000	.0488	UJ										
NEPTUNIUM-237	PCI/L	0.1000		R	0.5000	.107	UJ										
PLUTONIUM-239/240	PCI/L	0.0400		R	0.5000	.0631	UJ										
PLUTONIUM-238	PCI/L	0.1000		R	0.5000	.1099	UJ										
STRONTIUM-90	PCI/L	1.0000		UJ	1.0000	.365	UJ										
TECHNETIUM-99	PCI/L	17.0000		UJ	15.0000	7.45	UJ										
RUTHENIUM-106	PCI/L	150.0000		UJ	150.0000		UJ										
CESIUM-137	PCI/L	16.0000		UJ	12.0000		UJ										
GROSS ALPHA	PCI/L	12.2000		UNV	5.0500	5.35	NV										
GROSS BETA	PCI/L	10.9000		UNV	0.5400	4.21	NV										
SEMIVOLATILES																	
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000		U										
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U										
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U										
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U										
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	25.0000		U										
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000		U										
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000		U										
2,4-DIMETHYLPHENOL	UG/L	10.0000		U	10.0000		U										
2,4-DINITROPHENOL	UG/L	50.0000		UJ	50.0000		U										
2,4-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U										
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U										
2-BENZYL-4-CHLOROPHENOL	UG/L				10.0000		U										
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		U										
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000		U										
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		U										
2-METHYLPHENOL	UG/L	10.0000		U	10.0000		U										
2-NITROANILINE	UG/L	50.0000		U	25.0000		U										
2-NITROPHENOL	UG/L	10.0000		U	10.0000		U										
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U	10.0000		U										
3-NITROANILINE	UG/L	50.0000		U	25.0000		U										

001639

SAMPLE NUMBER:		099113			120452			045312			045313			045985		
LAB:		IT-KNOX			IT											
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U	25.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000		U									
4-METHYLPHENOL	UG/L	10.0000		U	10.0000		U									
4-NITROANILINE	UG/L	50.0000		U	25.0000		U									
4-NITROPHENOL	UG/L	50.0000		U	25.0000		U									
ACENAPHTHENE	UG/L	10.0000		U	10.0000		U									
ACENAPHTHYLENE	UG/L	10.0000		U	10.0000		U									
ANTHRACENE	UG/L	10.0000		U	10.0000		U									
BENZO(A)ANTHRACENE	UG/L	10.0000		U	10.0000		U									
BENZO(A)PYRENE	UG/L	10.0000		U	10.0000		U									
BENZO(B)FLUORANTHENE	UG/L	10.0000		U	10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U	10.0000		U									
BENZO(K)FLUORANTHENE	UG/L	10.0000		U	10.0000		U									
BENZOIC ACID	UG/L	10.0000		UJ	3.0000		J									
BENZYL ALCOHOL	UG/L	10.0000		U	10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U	10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U	10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UJ	10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U	10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
CARBAZOLE	UG/L				10.0000		U									
CHRYSENE	UG/L	10.0000		U	10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U	10.0000		U									
DIBENZOFURAN	UG/L	10.0000		U	10.0000		U									
DIETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
DIMETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
FLUORANTHENE	UG/L	10.0000		U	10.0000		U									
FLUORENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROBENZENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROBUTADIENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROETHANE	UG/L	10.0000		U	10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U	10.0000		U									
ISOPHORONE	UG/L	10.0000		U	10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U	10.0000		U									
N-NITROSODIMETHYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U	10.0000		U									
NAPHTHALENE	UG/L	10.0000		U	10.0000		U									
NITROBENZENE	UG/L	10.0000		U	10.0000		U									
P-CHLOROANILINE	UG/L	10.0000		U	10.0000		U									
PENTACHLOROPHENOL	UG/L	50.0000		U	25.0000		UJ									

SAMPLE NUMBER:		099113		120452		045312			045313			045985		
LAB:		IT-KNOX		IT		-			-			-		
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF										
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
PHENANTHRENE	UG/L	10.0000	U	10.0000	U									
PHENOL	MG/L	10.0000	U	10.0000	U									
PYRENE	UG/L	10.0000	U	10.0000	U									
TRIBUTYL PHOSPHATE	UG/L	10.0000	U											
VOLATILES														
1,1,1-TRICHLOROETHANE	UG/L	10.0000	U	10.0000	U									
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000	U	10.0000	U									
1,1,2-TRICHLOROETHANE	UG/L	10.0000	U	10.0000	U									
1,1-DICHLOROETHANE	UG/L	10.0000	U	10.0000	U									
1,1-DICHLOROETHENE	UG/L	10.0000	U	10.0000	U									
1,2-DICHLOROETHANE	UG/L	10.0000	U	10.0000	U									
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000	U	10.0000	U									
1,2-DICHLOROPROPANE	UG/L	10.0000	U	10.0000	U									
2-BUTANONE	UG/L	10.0000	U	10.0000	U									
2-HEXANONE	UG/L	10.0000	UJ	10.0000	UJ									
4-METHYL-2-PENTANONE	UG/L	10.0000	UJ	10.0000	U									
ACETONE	UG/L	10.0000	U	10.0000	UJ									
BENZENE	UG/L	10.0000	U	10.0000	U									
BROMODICHLOROMETHANE	UG/L	10.0000	U	10.0000	U									
BROMOFORM	UG/L	10.0000	U	10.0000	U									
BROMOMETHANE	UG/L	10.0000	U	10.0000	U									
CARBON DISULFIDE	UG/L	10.0000	U	10.0000	U									
CARBON TETRACHLORIDE	UG/L	10.0000	U	10.0000	U									
CHLOROBENZENE	UG/L	10.0000	U	10.0000	U									
CHLOROETHANE	UG/L	10.0000	UJ	10.0000	UJ									
CHLOROFORM	UG/L	10.0000	U	10.0000	U									
CHLOROMETHANE	UG/L	10.0000	U	10.0000	UJ									
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000	U	10.0000	U									
DIBROMOCHLOROMETHANE	UG/L	10.0000	U	10.0000	U									
ETHYLBENZENE	UG/L	10.0000	U	10.0000	U									
METHYLENE CHLORIDE	UG/L	10.0000	UJ	10.0000	U									
STYRENE	UG/L	10.0000	U	10.0000	U									
TETRACHLOROETHENE	UG/L	10.0000	U	10.0000	U									
TOLUENE	UG/L	10.0000	U	10.0000	U									
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000	U	10.0000	U									
TRICHLOROETHENE	UG/L	10.0000	U	10.0000	U									
VINYL ACETATE	UG/L	10.0000	UJ	10.0000	U									
VINYL CHLORIDE	UG/L	10.0000	U	10.0000	U									
XYLENES, TOTAL	UG/L	10.0000	U	10.0000	U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930528-1	045332	045333	045989	GW930528-2
TASK:	50.03.23	3.7	3.7	3.7	50.03.23
LAB:	NET	IT	IT	IT	NET
WELL OR BORING NUMBER:	1351	1352	1352	1352	1352
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-MAY-93	09-OCT-89	09-OCT-89	21-FEB-90	28-MAY-93
NORTH COORDINATE:	480940.44	480889.77	480889.77	480889.77	480889.77
EAST COORDINATE:	1379899.75	1380004.4	1380004.4	1380004.4	1380004.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	448.0000		-										264.0000		-
AMMONIA	MG/L	0.1700		-										0.2100		-
BICARBONATE ALKALINITY	MG/L	555.0000		-										317.0000		-
CARBONATE ALKALINITY	MG/L	3.0000		U										3.0000		U
CHLORIDE	MG/L	15.0000		-										34.0000		-
FLUORIDE	MG/L	0.3100		-										0.4700		-
NITRATE	MG/L							0.1000		U	0.1000		U			
NITRITE, AS NITROGEN	MG/L	0.0900		-										0.0200		U
PH	STD	7.1800		-										7.3800		-
PHENOLS	MG/L	0.0100		U										0.0100		U
PHOSPHORUS	MG/L	0.2300		R										0.1800		R
SPECIFIC CONDUCTIVITY	UMHOS/CM	815.0000		-										553.0000		-
SULFATE	MG/L	75.0000		-										74.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	540.0000		-										385.0000		-
TOTAL KJELDAHL NITROGEN	MG/L	0.6300		-										0.7500		-
TOTAL ORGANIC CARBON	MG/L	3.0000		-										1.0000		-
TOTAL ORGANIC HALIDES	MG/L	0.0180		-										0.0100		U
TOTAL ORGANIC NITROGEN	MG/L	0.4600		-										0.5400		-
TOTAL SOLIDS	MG/L	1200.0000		-										1930.0000		-
INORGANICS																
ALUMINUM	MG/L	20.0000		U										0.0200		U
ANTIMONY	MG/L	45.0000		U										0.0450		U
ARSENIC	MG/L	2.0000		UR										0.0055		R
BARIUM	MG/L	0.0368		-										0.2950		U
BERYLLIUM	MG/L	0.0010		U										0.0010		U
CADMIUM	MG/L	0.0032		-										0.0054		-
CALCIUM	MG/L	20.9000		-										234.0000		-
CHROMIUM	MG/L	0.0050		U										0.0050		U

5704

00 1942

SAMPLE NUMBER:		GW930528-1			045332			045333			045989			GW930528-2		
LAB:		NET												NET		
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COBALT	MG/L	0.0080		U										0.0235		-
COPPER	MG/L	0.0124		U										0.0217		U
CYANIDE	MG/L	0.0100		UJ										0.0100		UR
IRON	MG/L	18.7000		-										17.6000		-
LEAD	MG/L	0.0026		-										0.0017		-
MAGNESIUM	MG/L	3.8800		-										1.5500		-
MANGANESE	MG/L	1.6400		-										3.6300		-
MERCURY	MG/L	0.0002		UJ										0.0002		U
NICKEL	MG/L	0.0200		U										0.0200		U
POTASSIUM	MG/L	32.7000		J										2.9500		J
SELENIUM	MG/L	0.0017		J										0.0023		J
SILVER	MG/L	0.0070		U										0.0070		UJ
SODIUM	MG/L	7.2800		J										29.5000		-
THALLIUM	MG/L	0.0020		UJ										0.0020		UJ
VANADIUM	MG/L	0.0166		-										0.0301		-
ZINC	MG/L	0.0543		J										0.0051		U
RADIONUCLIDES																
URANIUM-238	PCI/L	0.6000	.2	J										10.8000	1.8	J
URANIUM, TOTAL	UG/L	1.1000		NV	226.0000	35	-				501.0000	94	-	58.2000	4.1	-
URANIUM-234	PCI/L	0.5000	.6	J										10.4000	1.5	J
THORIUM-230	PCI/L	0.2000	.2	UJ										0.2000	.2	UJ
RADIUM-226	PCI/L	1.0000	.4	UJ										1.0000	.4	UJ
URANIUM-235/236	PCI/L	0.2000	.3	UJ										1.0000	.6	-
THORIUM-232	PCI/L	0.2000	.2	UJ										0.2000	.2	UJ
THORIUM, TOTAL	UG/L	1.8240	.2	NV										0.9120	.2	NV
RADIUM-228	PCI/L	3.0000	1.5	U										5.7000	1.7	-
THORIUM-228	PCI/L	0.2000	.3	UJ										0.2000	.3	UJ
TECHNETIUM-99	PCI/L	15.0000	7.7	U										15.0000	7.6	U
GROSS ALPHA	PCI/L	12.2000	5.4	NV										33.0000	3.3	NV
GROSS BETA	PCI/L	16.3000	5.9	NV										96.5000	13.4	NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1-DICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,1-DICHLOROETHENE	UG/L	10.0000		U										10.0000		U
1,2-DICHLOROETHANE	UG/L	10.0000		U										10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U										10.0000		U
1,2-DICHLOROPROPANE	UG/L	10.0000		U										10.0000		U
2-BUTANONE	UG/L	10.0000		U										10.0000		U
2-HEXANONE	UG/L	10.0000		U										10.0000		U

SAMPLE NUMBER:		GW930528-1		045332			045333			045989			GW930528-2		
LAB:		NET											NET		
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
4-METHYL-2-PENTANONE	UG/L	10.0000		U										10.0000		U
ACETONE	UG/L	10.0000		U										10.0000		U
BENZENE	UG/L	10.0000		U										10.0000		UJ
BROMODICHLOROMETHANE	UG/L	10.0000		U										10.0000		U
BROMOFORM	UG/L	10.0000		U										10.0000		U
BROMOMETHANE	UG/L	10.0000		U										10.0000		U
CARBON DISULFIDE	UG/L	10.0000		U										10.0000		U
CARBON TETRACHLORIDE	UG/L	10.0000		U										10.0000		U
CHLOROBENZENE	UG/L	10.0000		U										10.0000		UJ
CHLOROETHANE	UG/L	10.0000		U										10.0000		U
CHLOROFORM	UG/L	10.0000		U										10.0000		U
CHLOROMETHANE	UG/L	10.0000		U										10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U										10.0000		U
DIBROMOCHLOROMETHANE	UG/L	10.0000		U										10.0000		U
ETHYLBENZENE	UG/L	10.0000		U										10.0000		UJ
METHYLENE CHLORIDE	UG/L	10.0000		U										10.0000		U
STYRENE	UG/L	10.0000		U										10.0000		UJ
TETRACHLOROETHENE	UG/L	10.0000		U										10.0000		U
TOLUENE	UG/L	10.0000		U										10.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U										10.0000		U
TRICHLOROETHENE	UG/L	10.0000		U										10.0000		U
VINYL CHLORIDE	UG/L	10.0000		U										10.0000		U
XYLENES, TOTAL	UG/L	10.0000		U										10.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045358	045359	045413	045414	045415
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1353	1353	1353	1353	1353
DEPTH:	-	-	-	-	-
DATE COLLECTED:	17-OCT-89	17-OCT-89	17-OCT-89	17-OCT-89	28-AUG-90
NORTH COORDINATE:	480927.26	480927.26	480927.26	480927.26	480927.26
EAST COORDINATE:	1380251.72	1380251.72	1380251.72	1380251.72	1380251.72
QA TYPE:	NORMAL	NORMAL	DUPLICATE	DUPLICATE	NORMAL
QC OF:			045358	045359	
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		U				0.1000		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	24.00003		-				25.0000	3	-				5.9500	.62	-

001645

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045416			120389			120389F			120391			120391F
TASK:		3.7			50.03.23			50.03.23			50.03.23			50.03.23
LAB:		IT			TCT			TCT			CORE			CORE
WELL OR BORING NUMBER:		1353			1353			1353			1353			1353
DEPTH:		-			-			-			-			-
DATE COLLECTED:		28-AUG-90			07-JUL-93			07-JUL-93			07-JUL-93			07-JUL-93
NORTH COORDINATE:		480927.26			480927.26			480927.26			480927.26			480927.26
EAST COORDINATE:		1380251.72			1380251.72			1380251.72			1380251.72			1380251.72
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL
QC OF:														
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				690.0000		-									
AMMONIA	MG/L				0.2400		-									
CHLORIDE	MG/L				102.0000		-									
FLUORIDE	MG/L				0.1960		-									
NITRATE	MG/L	0.1000		U												
NITRITE, AS NITROGEN	MG/L				0.2000		U									
PHENOLS	MG/L				0.0050		U									
PHOSPHATE	MG/L				0.3610		R									
SULFATE	MG/L				22.3000		-									
SULFIDE	MG/L				1.0000		U									
TOTAL KJELDAHL NITROGEN	MG/L				0.3800		-									
TOTAL ORGANIC CARBON	MG/L				13.6000		J									
TOTAL ORGANIC HALIDES	MG/L				0.0700		J									
TOTAL ORGANIC NITROGEN	MG/L				0.1400		-									
INORGANICS																
ALUMINUM	MG/L				11.7000		-	0.1320		U						
ANTIMONY	MG/L				0.0140		U	0.0140		U						
ARSENIC	MG/L				0.0061		J	0.0065		J						
BARIUM	MG/L				0.2760		-	0.1590		-						
BERYLLIUM	MG/L				0.0114		R	0.0050		UR						
CADMIUM	MG/L				0.0072		-	0.0050		U						
CALCIUM	MG/L				495.0000		-	182.0000		-						
CHROMIUM	MG/L				0.0120		J	0.0060		UJ						
COBALT	MG/L				0.0170		U	0.0170		U						
COPPER	MG/L				0.0257		U	0.0090		U						
CYANIDE	MG/L				0.0050		U	0.0050		U						
IRON	MG/L				19.2000		-	0.4560		-						
LEAD	MG/L				0.0178		-	0.0010		U						

SAMPLE NUMBER:		045416			120389			120389F			120391			120391F		
LAB:					TCT			TCT								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MAGNESIUM	MG/L				158.0000		-	57.5000		-						
MANGANESE	MG/L				5.9600		-	3.9500		-						
MERCURY	MG/L				0.0002		U	0.0003		U						
MOLYBDENUM	MG/L				0.0170		UJ	0.0170		UJ						
NICKEL	MG/L				0.0180		UJ	0.0180		UJ						
POTASSIUM	MG/L				5.1600		-	0.9700		-						
SELENIUM	MG/L				0.0050		UJ	0.0050		UJ						
SILICON	MG/L				20.5000		-	7.9900		-						
SILVER	MG/L				0.0020		U	0.0020		U						
SODIUM	MG/L				38.7000		-	39.9000		-						
THALLIUM	MG/L				0.0010		UJ	0.0010		UJ						
VANADIUM	MG/L				0.0614		-	0.0240		U						
ZINC	MG/L				0.1840		-	0.0320		-						
RADIONUCLIDES																
URANIUM-238	PCI/L										2.9000	.6	-	2.7000	.6	J
URANIUM, TOTAL	UG/L										15.4000	1.1	-	6.0000	.4	-
URANIUM-234	PCI/L										2.5000	3	-	2.6000	.6	J
THORIUM-230	PCI/L										0.4000	.3	-	0.3000	.2	J
RADIUM-226	PCI/L										1.1000	.3	J	1.0000	.2	UJ
URANIUM-235/236	PCI/L										0.2000	.2	U	0.2000	.1	UJ
THORIUM-232	PCI/L										0.2000	.3	U	0.2000	.1	UJ
THORIUM, TOTAL	UG/L										1.8241	.3	NV			
RADIUM-228	PCI/L										3.0000	1.2	U	3.0000	.9	UJ
THORIUM-228	PCI/L										0.3000	.2	-	0.2000	.2	UJ
TECHNETIUM-99	PCI/L										15.0000	7.5	U	15.0000	7.6	UJ
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHENE	UG/L				10.0000		U									
1,2-DICHLOROETHANE	UG/L				10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U									
1,2-DICHLOROPROPANE	UG/L				10.0000		U									
2-BUTANONE	UG/L				10.0000		J									
2-HEXANONE	UG/L				10.0000		UJ									
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ									
ACETONE	UG/L				25.0000		UJ									
BENZENE	UG/L				10.0000		U									
BROMODICHLOROMETHANE	UG/L				10.0000		U									
BROMOFORM	UG/L				10.0000		U									

SAMPLE NUMBER:	045416	120389	120389F	120391	120391F
LAB:		TCT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOMETHANE	UG/L				10.0000		U									
CARBON DISULFIDE	UG/L				10.0000		U									
CARBON TETRACHLORIDE	UG/L				10.0000		U									
CHLOROBENZENE	UG/L				10.0000		U									
CHLOROETHANE	UG/L				10.0000		U									
CHLOROFORM	UG/L				10.0000		U									
CHLOROMETHANE	UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
TRICHLOROETHENE	UG/L				10.0000		U									
VINYL ACETATE	UG/L				10.0000		UJ									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120393	120393F	EMGW_SYSGEN_330	045350	045351
TASK:	50.03.23	50.03.23	GWMON	3.7	3.7
LAB:	FERMCO	FERMCO	NET	IT	IT
WELL OR BORING NUMBER:	1353	1353	1353	1354	1354
DEPTH:	-	-	-	-	-
DATE COLLECTED:	07-JUL-93	07-JUL-93	29-OCT-90	06-OCT-89	06-OCT-89
NORTH COORDINATE:	480927.26	480927.26	480927.26	480893.54	480893.54
EAST COORDINATE:	1380251.72	1380251.72	1380251.72	1380491.66	1380491.66
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													0.1000		U
INORGANICS																
LEAD	MG/L							0.0880		NV						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	7.1000		NV	7.0000		NV				93.0000	13	-			
VOLATILES																
BENZENE	UG/L							0.5000		UNV						
ETHYLBENZENE	UG/L							0.5000		UNV						
TOLUENE	UG/L							0.5000		UNV						
XYLENES, TOTAL	UG/L							1.0000		UNV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045352	045993	120384	120384F	120386
TASK:	3.7	3.7	50.03.23	50.03.23	50.03.23
LAB:	IT	IT	TCT	TCT	CORE
WELL OR BORING NUMBER:	1354	1354	1354	1354	1354
DEPTH:	-	-	-	-	-
DATE COLLECTED:	26-AUG-90	28-JUL-90	09-JUL-93	09-JUL-93	09-JUL-93
NORTH COORDINATE:	480893.54	480893.54	480893.54	480893.54	480893.54
EAST COORDINATE:	1380491.66	1380491.66	1380491.66	1380491.66	1380491.66
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							616.0000		-						
AMMONIA	MG/L							0.0722		-						
CHLORIDE	MG/L							300.0000		-						
FLUORIDE	MG/L							0.1400		-						
NITRATE	MG/L				0.1000		U									
NITRATE/NITRITE	MG/L							0.0471		-						
PHENOLS	MG/L							0.0103		-						
PHOSPHATE	MG/L							0.1490		R						
SULFATE	MG/L							58.8000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL KJELDAHL NITROGEN	MG/L							0.1000		U						
TOTAL ORGANIC CARBON	MG/L							2.0000		UJ						
TOTAL ORGANIC HALIDES	MG/L							0.1330		J						
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U						
INORGANICS																
ALUMINUM	MG/L							2.0700		-	0.1830		U			
ANTIMONY	MG/L							0.0140		U	0.0140		U			
ARSENIC	MG/L							0.0025		-	0.0024		-			
BARIUM	MG/L							0.2630		-	0.1880		-			
BERYLLIUM	MG/L							0.0077		R	0.0050		UR			
CADMIUM	MG/L							0.0070		-	0.0050		U			
CALCIUM	MG/L							532.0000		-	195.0000		-			
CHROMIUM	MG/L							0.0060		UJ	0.0060		UJ			
COBALT	MG/L							0.0170		U	0.0170		U			
COPPER	MG/L							0.0247		U	0.0090		U			
CYANIDE	MG/L							0.0050		U	0.0050		U			
IRON	MG/L							7.1800		-	0.0961		-			
LEAD	MG/L							0.0097		-	0.0010		U			

001650

5704

SAMPLE NUMBER:		045352			045993		120384			120384F			120386		
LAB:							TCT			TCT					
SUFFIX/FILTERFLAG:		-			-		NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
MAGNESIUM	MG/L						131.0000		-	60.9000		-			
MANGANESE	MG/L						1.7300		-	0.6860		-			
MERCURY	MG/L						0.0001		U	0.0001		U			
MOLYBDENUM	MG/L						0.0170		UJ	0.0170		UJ			
NICKEL	MG/L						0.0180		UJ	0.0180		UJ			
POTASSIUM	MG/L						2.8800		-	1.7500		-			
SELENIUM	MG/L						0.0050		UJ	0.0050		UJ			
SILICON	MG/L						11.1000		-	8.5400		-			
SILVER	MG/L						0.0020		U	0.0020		U			
SODIUM	MG/L						139.0000		-	131.0000		-			
THALLIUM	MG/L						0.0050		UJ	0.0050		UJ			
VANADIUM	MG/L						0.0467		-	0.0246		-			
ZINC	MG/L						0.1610		-	0.0160		UJ			
RADIONUCLIDES															
URANIUM-238	PCI/L												11.0000	1.2	-
URANIUM, TOTAL	UG/L	102.00006		-									33.2000	2.3	-
URANIUM-234	PCI/L												9.9000	3.1	-
THORIUM-230	PCI/L												0.4000	.3	U
RADIUM-226	PCI/L												1.0000	.3	UJ
URANIUM-235/236	PCI/L												0.7000	.3	-
THORIUM-232	PCI/L												0.3000	.3	U
RADIUM-228	PCI/L												3.0000	1.2	U
THORIUM-228	PCI/L												0.2000	.2	U
TECHNETIUM-99	PCI/L												15.0000	7.5	U
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L						10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L						10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L						10.0000		U						
1,1-DICHLOROETHANE	UG/L						10.0000		U						
1,1-DICHLOROETHENE	UG/L						10.0000		U						
1,2-DICHLOROETHANE	UG/L						10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L						16.0000		-						
1,2-DICHLOROPROPANE	UG/L						10.0000		U						
2-BUTANONE	UG/L						10.0000		UJ						
2-HEXANONE	UG/L						10.0000		UJ						
4-METHYL-2-PENTANONE	UG/L						10.0000		UJ						
ACETONE	UG/L						10.0000		UJ						
BENZENE	UG/L						10.0000		U						
BROMODICHLOROMETHANE	UG/L						10.0000		U						
BROMOFORM	UG/L						10.0000		UJ						
BROMOMETHANE	UG/L						10.0000		U						

SAMPLE NUMBER:	045352	045993	120384	120384F	120386
LAB:			TCT		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL ACETATE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		UJ						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120386F			120388			120388F			EMGW_SYSGEN_331			045334		
TASK:		50.03.23			50.03.23			50.03.23			GWMON			3.7		
LAB:		CORE			FERMCO			FERMCO			NET			IT		
WELL OR BORING NUMBER:		1354			1354			1354			1354			1356		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		09-JUL-93			09-JUL-93			09-JUL-93			30-OCT-90			09-OCT-89		
NORTH COORDINATE:		480893.54			480893.54			480893.54			480893.54			480828.63		
EAST COORDINATE:		1380491.66			1380491.66			1380491.66			1380491.66			1380037.72		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L										0.0050		UNV			
RADIONUCLIDES																
URANIUM-238	PCI/L	10.5000	1.3	J												
URANIUM, TOTAL	UG/L	33.4000	2.3	-	33.0000		NV	31.0000		NV				240.0000	42	-
URANIUM-234	PCI/L	9.9000	1.2	J												
THORIUM-230	PCI/L	0.3000	.2	UJ												
RADIUM-226	PCI/L	1.0000	.2	UJ												
URANIUM-235/236	PCI/L	0.7000	.2	J												
THORIUM-232	PCI/L	0.2000	.1	UJ												
RADIUM-228	PCI/L	3.0000	1.1	UJ												
THORIUM-228	PCI/L	0.2000	.2	UJ												
TECHNETIUM-99	PCI/L	15.0000	7.5	UJ												
VOLATILES																
BENZENE	UG/L										0.5000		UNV			
ETHYLBENZENE	UG/L										0.5000		UNV			
TOLUENE	UG/L										0.5000		UNV			
XYLENES, TOTAL	UG/L										1.0000		UNV			

SAMPLE NUMBER:	045335			045996			118352			118353			118355		
LAB:							DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
SODIUM MG/L							31.7000		-	32.0000		-			
THALLIUM MG/L							0.0010		U	0.0010		U			
VANADIUM MG/L							0.0165		U	0.0061		U			
ZINC MG/L							0.0298		J	0.0060		U			
RADIONUCLIDES															
URANIUM-238 PCI/L													0.7000	.8	R
URANIUM, TOTAL UG/L				113.0000	12	-							1.4000	.1	-
URANIUM-234 PCI/L													0.8000	.7	R
THORIUM-230 PCI/L													0.6000	.3	J
RADIUM-226 PCI/L													1.0000	.4	U
URANIUM-235/236 PCI/L													0.1000	.5	R
THORIUM-232 PCI/L													0.2000	.3	UJ
THORIUM, TOTAL UG/L													0.9120	.3	NV
RADIUM-228 PCI/L													3.0000	1.2	U
THORIUM-228 PCI/L													0.2000	.3	UJ
TECHNETIUM-99 PCI/L													35.0000	8.3	J
GROSS ALPHA PCI/L													4.6000	2.8	NV
GROSS BETA PCI/L													11.2000	4.4	NV
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE UG/L							10.0000		U						
1,1-DICHLOROETHANE UG/L							10.0000		U						
1,1-DICHLOROETHENE UG/L							10.0000		U						
1,2-DICHLOROETHANE UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL) UG/L							10.0000		U						
1,2-DICHLOROPROPANE UG/L							10.0000		U						
2-BUTANONE UG/L							10.0000		U						
2-HEXANONE UG/L							10.0000		U						
4-METHYL-2-PENTANONE UG/L							10.0000		U						
ACETONE UG/L							10.0000		U						
BENZENE UG/L							10.0000		U						
BROMODICHLOROMETHANE UG/L							10.0000		U						
BROMOFORM UG/L							10.0000		U						
BROMOMETHANE UG/L							10.0000		U						
CARBON DISULFIDE UG/L							10.0000		U						
CARBON TETRACHLORIDE UG/L							10.0000		U						
CHLOROBENZENE UG/L							10.0000		U						
CHLOROETHANE UG/L							10.0000		U						
CHLOROFORM UG/L							10.0000		U						
CHLOROMETHANE UG/L							10.0000		UJ						

SAMPLE NUMBER:	045335	045996	118352	118353	118355
LAB:			DATACHEM		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL ACETATE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118356				118358			118359			045338			045339	
TASK:	50.03.23				50.03.23			50.03.23			3.7			3.7	
LAB:	CORE				FERMCO			FERMCO			IT			IT	
WELL OR BORING NUMBER:	1356				1356			1356			1357			1357	
DEPTH:	-				-			-			-			-	
DATE COLLECTED:	21-MAY-93				21-MAY-93			21-MAY-93			09-OCT-89			09-OCT-89	
NORTH COORDINATE:	480828.63				480828.63			480828.63			480808.23			480808.23	
EAST COORDINATE:	1380037.72				1380037.72			1380037.72			1380037.7			1380037.7	
QA TYPE:	NORMAL				NORMAL			NORMAL			NORMAL			NORMAL	
QC OF:															
SUFFIX/FILTERFLAG:	NONE-FIL				NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													0.1000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	0.6000	1.9	R												
URANIUM, TOTAL	UG/L	1.6000	.1	-	2.3000		NV	1.8000		NV	748.0000	103	-			
URANIUM-234	PCI/L	0.6000	.3	R												
THORIUM-230	PCI/L	0.3000	.2	UJ												
RADIUM-226	PCI/L	1.0000	.2	U												
URANIUM-235/236	PCI/L	0.1000	.5	R												
THORIUM-232	PCI/L	0.2000	.3	UJ												
RADIUM-228	PCI/L	3.0000	1.3	U												
THORIUM-228	PCI/L	0.2000	.4	UJ												
TECHNETIUM-99	PCI/L	16.2000	9.4	UJ												
GROSS ALPHA	PCI/L	3.7000	2.3	UNV												
GROSS BETA	PCI/L	46.6000	4	NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046000	GW930528-3	045336	045337	046604
TASK:	3.7	50.03.23	3.7	3.7	3.7
LAB:	IT	NET	IT	IT	IT
WELL OR BORING NUMBER:	1357	1357	1358	1358	1358
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-FEB-90	28-MAY-93	10-OCT-89	10-OCT-89	28-AUG-90
NORTH COORDINATE:	480808.23	480808.23	480792.75	480792.75	480792.75
EAST COORDINATE:	1380037.7	1380037.7	1380114.61	1380114.61	1380114.61
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				145.0000		-									
AMMONIA	MG/L				0.1900		-									
BICARBONATE ALKALINITY	MG/L				195.0000		-									
CARBONATE ALKALINITY	MG/L				3.0000		U									
CHLORIDE	MG/L				33.0000		-									
FLUORIDE	MG/L				0.4700		-									
NITRATE	MG/L	0.1000		U							0.1000		U			
NITRATE/NITRITE	MG/L				0.0200		U									
PH	STD				7.7900		-									
PHENOLS	MG/L				0.0100		U									
PHOSPHORUS	MG/L				0.2600		R									
SPECIFIC CONDUCTIVITY	UMHOS/CM				447.0000		-									
SULFATE	MG/L				93.0000		-									
TOTAL DISSOLVED SOLIDS	MG/L				388.0000		-									
TOTAL KJELDAHL NITROGEN	MG/L				3.3800		-									
TOTAL ORGANIC CARBON	MG/L				1.0000		U									
TOTAL ORGANIC HALIDES	MG/L				0.0100		U									
TOTAL ORGANIC NITROGEN	MG/L				3.1900		-									
TOTAL SOLIDS	MG/L				4780.0000		-									
INORGANICS																
ALUMINUM	MG/L				10.4000		-									
ANTIMONY	MG/L				0.0450		U									
ARSENIC	MG/L				0.0058		R									
BARIUM	MG/L				0.1960		-									
BERYLLIUM	MG/L				0.0010		U									
CADMIUM	MG/L				0.0045		-									
CALCIUM	MG/L				208.0000		-									
CHROMIUM	MG/L				0.0129		-									

SAMPLE NUMBER:		046000			GW930528-3			045336			045337			046604		
LAB:					NET											
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
COBALT	MG/L				0.0290		-									
COPPER	MG/L				0.0367		U									
CYANIDE	MG/L				0.0100		UJ									
IRON	MG/L				20.4000		-									
LEAD	MG/L				0.0014		-									
MAGNESIUM	MG/L				72.4000		-									
MANGANESE	MG/L				3.9200		J									
MERCURY	MG/L				0.0002		UJ									
NICKEL	MG/L				0.0493		-									
POTASSIUM	MG/L				2.6900		J									
SELENIUM	MG/L				0.0022		J									
SILVER	MG/L				0.0070		U									
SODIUM	MG/L				7.2000		-									
THALLIUM	MG/L				0.0020		UJ									
VANADIUM	MG/L				0.0167		-									
ZINC	MG/L				0.0547		-									
RADIONUCLIDES																
URANIUM-238	PCI/L				14.2000	2	-									
URANIUM, TOTAL	UG/L	941.000055		-	10.0000		NV	205.0000	31	J				228.0000	31	-
URANIUM-234	PCI/L				13.7000	2.1	-									
THORIUM-230	PCI/L				0.3000	.2	UJ									
RADIUM-226	PCI/L				1.0000	.4	UJ									
URANIUM-235/236	PCI/L				0.2000	.1	UJ									
THORIUM-232	PCI/L				0.2000	.2	UJ									
RADIUM-228	PCI/L				3.0000	1	UJ									
THORIUM-228	PCI/L				0.2000	.3	UJ									
TECHNETIUM-99	PCI/L				15.0000	7.3	U									
GROSS ALPHA	PCI/L				147.0000	25.7	NV									
GROSS BETA	PCI/L				292.0000	23.6	NV									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHANE	UG/L				10.0000		U									
1,1-DICHLOROETHENE	UG/L				10.0000		U									
1,2-DICHLOROETHANE	UG/L				10.0000		U									
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U									
1,2-DICHLOROPROPANE	UG/L				10.0000		U									
2-BUTANONE	UG/L				10.0000		U									
2-HEXANONE	UG/L				10.0000		U									
4-METHYL-2-PENTANONE	UG/L				10.0000		U									

SAMPLE NUMBER:	046000	GW930528-3	045336	045337	046604
LAB:		NET			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ACETONE	UG/L				10.0000		U									
BENZENE	UG/L				10.0000		U									
BROMODICHLOROMETHANE	UG/L				10.0000		U									
BROMOFORM	UG/L				10.0000		U									
BROMOMETHANE	UG/L				10.0000		U									
CARBON DISULFIDE	UG/L				10.0000		U									
CARBON TETRACHLORIDE	UG/L				10.0000		U									
CHLOROBENZENE	UG/L				10.0000		U									
CHLOROETHANE	UG/L				10.0000		U									
CHLOROFORM	UG/L				10.0000		U									
CHLOROMETHANE	UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
DIBROMOCHLOROMETHANE	UG/L				10.0000		U									
ETHYLBENZENE	UG/L				10.0000		U									
METHYLENE CHLORIDE	UG/L				10.0000		U									
STYRENE	UG/L				10.0000		U									
TETRACHLOROETHENE	UG/L				10.0000		U									
TOLUENE	UG/L				10.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U									
TRICHLOROETHENE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				10.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046605	045382	045383	045384	GW930526-14
TASK:	3.7	3.7	3.7	3.7	50.03.23
LAB:	IT	IT	IT	IT	NET
WELL OR BORING NUMBER:	1358	1359	1359	1359	1359
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-JUL-90	09-OCT-89	09-OCT-89	21-FEB-90	26-MAY-93
NORTH COORDINATE:	480792.75	480803.98	480803.98	480803.98	480803.98
EAST COORDINATE:	1380114.61	1380140.07	1380140.07	1380140.07	1380140.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													292.0000		-
AMMONIA	MG/L													0.0500		J
BICARBONATE ALKALINITY	MG/L													403.0000		-
CARBONATE ALKALINITY	MG/L													3.0000		U
CHLORIDE	MG/L													42.0000		-
FLUORIDE	MG/L													0.3800		-
NITRATE	MG/L	0.1200		-				0.1000		U	0.4800		-			
NITRATE/NITRITE	MG/L													0.8600		-
PH	STD													7.1200		-
PHENOLS	MG/L													0.0100		U
PHOSPHORUS	MG/L													0.2200		J
SPECIFIC CONDUCTIVITY	UMHOS/CM													675.0000		-
SULFATE	MG/L													69.0000		-
TOTAL DISSOLVED SOLIDS	MG/L													451.0000		-
TOTAL KJELDAHL NITROGEN	MG/L													3.2900		-
TOTAL ORGANIC CARBON	MG/L													2.0000		-
TOTAL ORGANIC HALIDES	MG/L													0.0100		U
TOTAL ORGANIC NITROGEN	MG/L													3.2400		-
TOTAL SOLIDS	MG/L													11900.0000		-
INORGANICS																
ALUMINUM	MG/L													87.2000		-
ANTIMONY	MG/L													0.0450		U
ARSENIC	MG/L													0.0020		U
BARIUM	MG/L													0.5530		-
BERYLLIUM	MG/L													0.0040		-
CADMIUM	MG/L													0.0030		U
CALCIUM	MG/L													742.0000		-
CHROMIUM	MG/L													0.1160		-

001680

5704

SAMPLE NUMBER:	046605	045382	045383	045384	GW930526-14
LAB:					NET
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BENZENE	UG/L													10.0000		UJ
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		UJ
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		UJ
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		UJ
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													10.0000		UJ
XYLENES, TOTAL	UG/L													10.0000		UJ

001681

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045340	045341	046610	046611	EMGW_SYSGEN_332
TASK:	3.7	3.7	3.7	3.7	GWMON
LAB:	IT	IT	IT/RSL	IT	NET
WELL OR BORING NUMBER:	1360	1360	1360	1360	1360
DEPTH:	-	-	-	-	-
DATE COLLECTED:	09-OCT-89	09-OCT-89	28-JUL-90	28-JUL-90	29-OCT-90
NORTH COORDINATE:	480783.43	480783.43	480783.43	480783.43	480783.43
EAST COORDINATE:	1380506.36	1380506.36	1380506.36	1380506.36	1380506.36
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		U				0.1000		U			
INORGANICS																
LEAD	MG/L													0.1490		NV
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	440.00084		-				15.0000	2.32	J						
VOLATILES																
BENZENE	UG/L													0.5000		UNV
ETHYLBENZENE	UG/L													0.5000		UNV
TOLUENE	UG/L													0.5000		UNV
XYLENES, TOTAL	UG/L													1.0000		UNV

SAMPLE NUMBER:		EMGW_SYSGEN_332D			046674			046675			046676			062964		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			F-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDD	UG/L													0.1000		U
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.1000		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.1000		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				38.6000	7.8	-	16.2000	2.5	-						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		UJ
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		UJ
2,4-DICHLOROPHENOL	UG/L													10.0000		UJ
2,4-DIMETHYLPHENOL	UG/L													10.0000		UJ
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U

001653

SAMPLE NUMBER:		EMGW_SYSGEN_332D			046674			046675			046676			062964		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		UJ
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		UJ
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		UJ
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		UJ
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		UJ
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		UJ
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		UJ
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CARBAZOLE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U

001664

5704

SAMPLE NUMBER:		EMGW_SYSGEN_332D			046674			046675			046676			062964		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
VINYL ACETATE	UG/L													10.0000		U
VINYL CHLORIDE	UG/L													1.0000		J
XYLENES, TOTAL	UG/L	1.0000		UNV										5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930527-5	045399	045400	045401	045330
TASK:	50.03.23	3.7	3.7	3.7	3.7
LAB:	LOCKHEED	IT	IT	IT	IT
WELL OR BORING NUMBER:	1361	1362	1362	1362	1363
DEPTH:	-	-	-	-	-
DATE COLLECTED:	27-MAY-93	17-JAN-90	28-JUL-90	28-JUL-90	19-JAN-90
NORTH COORDINATE:	481163.68	481303.91	481303.91	481303.91	481611.99
EAST COORDINATE:	1380165.82	1380840.48	1380840.48	1380840.48	1381150.58
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	1200.0000		-												
AMMONIA	MG/L	0.2100		-												
BICARBONATE ALKALINITY	MG/L	1200.0000		-												
CARBONATE ALKALINITY	MG/L	30.0000		U												
CHLORIDE	MG/L	130.0000		-												
FLUORIDE	MG/L	0.2200		-												
NITRATE	MG/L				0.1800		-				0.1600		-	0.1000		U
NITRATE/NITRITE	MG/L	0.0510		-												
PH	STD	6.9000		-												
PHENOLS	MG/L	0.1500		U												
PHOSPHORUS	MG/L	2.1000		-												
SPECIFIC CONDUCTIVITY	UMHOS/CM	1700.0000		-												
SULFATE	MG/L	2.3000		-												
TOTAL DISSOLVED SOLIDS	MG/L	850.0000		-												
TOTAL ORGANIC CARBON	MG/L	6.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.4800		-												
TOTAL ORGANIC NITROGEN	MG/L	1.6000		J												
TOTAL SOLIDS	MG/L	8600.0000		-												
INORGANICS																
ALUMINUM	MG/L	0.0240		U												
ANTIMONY	MG/L	0.0305		-												
ARSENIC	MG/L	0.0044		J												
BARIUM	MG/L	0.2640		-												
BERYLLIUM	MG/L	0.0034		-												
CADMIUM	MG/L	0.0020		U												
CALCIUM	MG/L	434.0000		-												
CHROMIUM	MG/L	0.0040		U												
COBALT	MG/L	0.0050		U												

001988

5704

SAMPLE NUMBER:		GW930527-5		045399			045400			045401			045330		
LAB:		LOCKHEED													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		U												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		UJ												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045331			046616			046617			046618			120379	
TASK:	3.7			3.7			3.7			3.7			50.03.23	
LAB:	IT			IT			IT			IT			TCT	
WELL OR BORING NUMBER:	1363			1363			1363			1363			1363	
DEPTH:	-			-			-			-			-	
DATE COLLECTED:	15-JUN-90			14-JUN-90			14-JUN-90			15-JUN-90			01-JUL-93	
NORTH COORDINATE:	481611.99			481611.99			481611.99			481611.99			481611.99	
EAST COORDINATE:	1381150.58			1381150.58			1381150.58			1381150.58			1381150.58	
QA TYPE:	NORMAL			NORMAL			DUPLICATE			NORMAL			NORMAL	
QC OF:							046616							
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													554.0000		-
AMMONIA	MG/L													0.3010		-
CHLORIDE	MG/L													15.7000		-
FLUORIDE	MG/L													0.7000		-
NITRATE	MG/L										0.1000		U			
NITRATE/NITRITE	MG/L													0.2000		U
PHENOLS	MG/L													0.0071		-
PHOSPHATE	MG/L													0.1690		-
SULFATE	MG/L													184.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL KJELDAHL NITROGEN	MG/L													0.2420		U
TOTAL ORGANIC CARBON	MG/L													4.4000		-
TOTAL ORGANIC HALIDES	MG/L													0.0050		U
TOTAL ORGANIC NITROGEN	MG/L													0.0750		U
INORGANICS																
ALUMINUM	MG/L				0.0696		-	0.0644		-				7.0300		-
ANTIMONY	MG/L				0.0300		U	0.0300		U				0.0140		UJ
ARSENIC	MG/L				0.0020		U	0.0020		U				0.0027		U
BARIUM	MG/L				0.0704		-	0.0636		-				0.0942		-
BERYLLIUM	MG/L				0.0020		U	0.0020		U				0.0050		UR
CADMIUM	MG/L				0.0096		J	0.0093		J				0.0141		J
CALCIUM	MG/L				127.0000		-	128.0000		-				152.0000		-
CHROMIUM	MG/L				0.0393		J	0.0384		J				0.0086		J
COBALT	MG/L				0.0100		U	0.0100		U				0.0170		UR
COPPER	MG/L				0.0115		-	0.0113		-				0.0146		R
CYANIDE	MG/L				0.0020		U	0.0020		U				0.0050		U
IRON	MG/L				0.0275		U	0.0301		U				6.4700		-
LEAD	MG/L				0.0020		UJ	0.0020		UJ				0.0028		UJ

001668

5704

RADIONUCLIDES

URANIUM, TOTAL UG/L 41.60007.1 J
06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1180

SAMPLE NUMBER:	045331	046616	046617	046618	120379
LAB:	IT				
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U	10.0000		UR						
1,2-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		UR						
1,3-DICHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
1,4-DICHLOROBENZENE	UG/L				10.0000		UR	10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		UR	50.0000		UR						
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U	10.0000		UR						
2,4-DICHLOROPHENOL	UG/L				10.0000		U	10.0000		UR						
2,4-DIMETHYLPHENOL	UG/L				10.0000		U	10.0000		U						
2,4-DINITROPHENOL	UG/L				50.0000		UR	50.0000		UR						
2,4-DINITROTOLUENE	UG/L				10.0000		U	10.0000		U						
2,6-DINITROTOLUENE	UG/L				10.0000		U	10.0000		UR						
2-CHLORONAPHTHALENE	UG/L				10.0000		UJ	10.0000		UR						
2-CHLOROPHENOL	UG/L				10.0000		U	10.0000		UR						
2-METHYLNAPHTHALENE	UG/L				10.0000		UR	10.0000		UR						
2-METHYLPHENOL	UG/L				10.0000		UR	10.0000		UR						
2-NITROANILINE	UG/L				50.0000		U	50.0000		UR						
2-NITROPHENOL	UG/L				10.0000		UR	10.0000		UR						
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UR	20.0000		UJ						
3-NITROANILINE	UG/L				50.0000		UR	50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UJ	50.0000		UR						
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U	10.0000		UR						
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U	10.0000		UR						
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U	10.0000		UR						
4-METHYLPHENOL	UG/L				10.0000		UJ	10.0000		UR						
4-NITROANILINE	UG/L				50.0000		U	50.0000		UR						
4-NITROPHENOL	UG/L				50.0000		U	50.0000		U						
ACENAPHTHENE	UG/L				10.0000		U	10.0000		UR						
ACENAPHTHYLENE	UG/L				10.0000		UJ	10.0000		UR						
ANTHRACENE	UG/L				10.0000		U	10.0000		UR						
BENZO(A)ANTHRACENE	UG/L				10.0000		U	10.0000		UR						
BENZO(A)PYRENE	UG/L				10.0000		U	10.0000		U						
BENZO(B)FLUORANTHENE	UG/L				10.0000		U	10.0000		UR						
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ	10.0000		UJ						
BENZO(K)FLUORANTHENE	UG/L				10.0000		U	10.0000		U						
BENZOIC ACID	UG/L				50.0000		UR	50.0000		UR						
BENZYL ALCOHOL	UG/L				10.0000		UJ	10.0000		UR						
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		UJ	10.0000		UJ						
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		UR	10.0000		UR						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UR	10.0000		UJ						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		UR	10.0000		UR						
BUTYL BENZYL PHTHALATE	UG/L				10.0000		UR	10.0000		UR						

001669

SAMPLE NUMBER:		045331			046616			046617			046618			120379		
LAB:					IT			IT								
SUFFIX/FILTERFLAG:		-			R-UNF			R-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
CHRYSENE	UG/L				10.0000		U	10.0000		UR						
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UR	10.0000		UJ						
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U	10.0000		U						
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ	10.0000		UR						
DIBENZOFURAN	UG/L				10.0000		UR	10.0000		UR						
DIETHYL PHTHALATE	UG/L				10.0000		U	10.0000		UR						
DIMETHYL PHTHALATE	UG/L				10.0000		UR	10.0000		UR						
FLUORANTHENE	UG/L				10.0000		UR	10.0000		U						
FLUORENE	UG/L				10.0000		UR	10.0000		UJ						
HEXACHLOROBENZENE	UG/L				10.0000		UR	10.0000		U						
HEXACHLOROBUTADIENE	UG/L				10.0000		UR	10.0000		U						
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UR	10.0000		U						
HEXACHLOROETHANE	UG/L				10.0000		UR	10.0000		UJ						
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		UR	10.0000		UJ						
ISOPHORONE	UG/L				10.0000		U	10.0000		U						
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		UJ	10.0000		UJ						
N-NITROSODIPHENYLAMINE	UG/L				10.0000		UR	10.0000		U						
NAPHTHALENE	UG/L				10.0000		UJ	10.0000		UJ						
NITROBENZENE	UG/L				10.0000		UR	10.0000		U						
P-CHLOROANILINE	UG/L				10.0000		UR	10.0000		U						
PENTACHLOROPHENOL	UG/L				50.0000		U	50.0000		U						
PHENANTHRENE	UG/L				10.0000		UR	10.0000		U						
PHENOL	MG/L				10.0000		UR	10.0000		U						
PYRENE	UG/L				10.0000		UR	10.0000		UJ						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U	5.0000		U				10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		UJ	5.0000		UJ				10.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U	5.0000		U				10.0000		U
1,1-DICHLOROETHANE	UG/L				5.0000		U	5.0000		U				10.0000		U
1,1-DICHLOROETHENE	UG/L				5.0000		U	5.0000		U				10.0000		U
1,2-DICHLOROETHANE	UG/L				5.0000		U	5.0000		U				10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U	5.0000		U				10.0000		U
1,2-DICHLOROPROPANE	UG/L				5.0000		U	5.0000		U				10.0000		U
2-BUTANONE	UG/L				10.0000		UJ	10.0000		U				10.0000		UJ
2-HEXANONE	UG/L				10.0000		U	10.0000		U				10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		U	10.0000		U				10.0000		UJ
ACETONE	UG/L				10.0000		R	10.0000		UJ				10.0000		UJ
BENZENE	UG/L				5.0000		U	5.0000		U				10.0000		U
BROMODICHLOROMETHANE	UG/L				5.0000		U	5.0000		U				10.0000		U
BROMOFORM	UG/L				5.0000		U	5.0000		U				10.0000		U
BROMOMETHANE	UG/L				10.0000		U	10.0000		U				10.0000		UJ
CARBON DISULFIDE	UG/L				5.0000		U	5.0000		U				10.0000		UJ
CARBON TETRACHLORIDE	UG/L				5.0000		U	5.0000		U				10.0000		U

SAMPLE NUMBER:		045331			046616			046617			046618			120379		
LAB:					IT			IT						TCT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROBENZENE	UG/L				5.0000		U	5.0000		U				10.0000		U
CHLOROETHANE	UG/L				10.0000		U	10.0000		U				10.0000		U
CHLOROFORM	UG/L				5.0000		U	5.0000		U				10.0000		U
CHLOROMETHANE	UG/L				10.0000		U	10.0000		U				10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U	5.0000		U				10.0000		U
DIBROMOCHLOROMETHANE	UG/L				5.0000		U	5.0000		U				10.0000		U
ETHYLBENZENE	UG/L				5.0000		U	5.0000		U				10.0000		U
METHYLENE CHLORIDE	UG/L				5.0000		U	24.0000		U				10.0000		U
STYRENE	UG/L				5.0000		U	5.0000		U				10.0000		U
TETRACHLOROETHENE	UG/L				5.0000		U	1.0000		J				10.0000		U
TOLUENE	UG/L				5.0000		U	5.0000		U				10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U	5.0000		U				10.0000		U
TRICHLOROETHENE	UG/L				5.0000		U	5.0000		U				10.0000		U
VINYL ACETATE	UG/L				10.0000		U	10.0000		U				10.0000		U
VINYL CHLORIDE	UG/L				10.0000		U	10.0000		U				10.0000		UJ
XYLENES, TOTAL	UG/L				5.0000		U	5.0000		U				10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		120379F				120381				120381F				120382				120383					
TASK:		50.03.23				50.03.23				50.03.23				50.03.23				50.03.23					
LAB:		TCT				CORE				CORE				FERMCO				FERMCO					
WELL OR BORING NUMBER:		1363				1363				1363				1363				1363					
DEPTH:		-				-				-				-				-					
DATE COLLECTED:		01-JUL-93				01-JUL-93				01-JUL-93				01-JUL-93				01-JUL-93					
NORTH COORDINATE:		481611.99				481611.99				481611.99				481611.99				481611.99					
EAST COORDINATE:		1381150.58				1381150.58				1381150.58				1381150.58				1381150.58					
QA TYPE:		NORMAL				NORMAL				NORMAL				NORMAL				NORMAL					
QC OF:																							
SUFFIX/FILTERFLAG:		NONE-FIL				NONE-UNF				NONE-FIL				NONE-UNF				NONE-UNF					
		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)			
INORGANICS																							
ALUMINUM	MG/L	0.1780		U																			
ANTIMONY	MG/L	0.0140		UJ																			
ARSENIC	MG/L	0.0029		U																			
BARIUM	MG/L	0.0584		-																			
BERYLLIUM	MG/L	0.0050		UR																			
CADMIUM	MG/L	0.0050		U																			
CALCIUM	MG/L	135.0000		-																			
CHROMIUM	MG/L	0.0060		U																			
COBALT	MG/L	0.0170		UR																			
COPPER	MG/L	0.0099		R																			
CYANIDE	MG/L	0.0050		U																			
IRON	MG/L	0.0330		U																			
LEAD	MG/L	0.0013		UJ																			
MAGNESIUM	MG/L	68.8000		-																			
MANGANESE	MG/L	0.0512		R																			
MERCURY	MG/L	0.0002		U																			
MOLYBDENUM	MG/L	0.0170		U																			
NICKEL	MG/L	0.0180		UR																			
POTASSIUM	MG/L	2.2400		-																			
SELENIUM	MG/L	0.0050		UJ																			
SILICON	MG/L	6.7500		-																			
SILVER	MG/L	0.0020		U																			
SODIUM	MG/L	12.6000		-																			
THALLIUM	MG/L	0.0010		UR																			
VANADIUM	MG/L	0.0240		UR																			
ZINC	MG/L	0.0060		UR																			
RADIONUCLIDES																							
URANIUM-238	PCI/L					3.8000	.7	-		3.0000	1.5	J											

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120379F	120381	120381F	120382	120383
LAB:		CORE	CORE		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-FIL	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				9.8000	.7	-	10.4000	.7	-				1.4000		NV
URANIUM-234	PCI/L				4.1000	.8	J	3.9000	.8	J						
THORIUM-230	PCI/L				0.5000	.3	J	0.3000	.2	UJ						
RADIUM-226	PCI/L				1.7000	.4	J	1.0000	.3	U						
URANIUM-235/236	PCI/L				0.3000	.4	-	0.2000	.3	UJ						
THORIUM-232	PCI/L				0.2000	1	U	0.2000	.3	UJ						
THORIUM, TOTAL	UG/L				1.8241	1	NV	0.9120	.3	NV						
RADIUM-228	PCI/L				3.0000	1	U	3.0000	1.5	U						
THORIUM-228	PCI/L				0.4000	1.4	-	0.2000	.4	UJ						
TECHNETIUM-99	PCI/L				15.0000	8.2	U	16.3000	9.6	UJ						
GROSS ALPHA	PCI/L				11.7000	4.2	NV	11.5000	3.9	NV	160.0000		UNV			
GROSS BETA	PCI/L				9.4000	5.3	NV	15.3000	4.2	NV	480.0000		NV			

001673

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120383F	GW920525-12	045316	045317	046620
TASK:	50.03.23	50.03.23	3.7	3.7	3.7
LAB:	FERMCO	CORE	IT	IT/RSL	IT
WELL OR BORING NUMBER:	1363	1363	1403	1403	1403
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-JUL-93	24-MAY-93	22-JAN-90	23-AUG-90	23-AUG-90
NORTH COORDINATE:	481611.99	481611.99	479781.6	479781.6	479781.6
EAST COORDINATE:	1381150.58	1381150.58	1380561.35	1380561.35	1380561.35
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							1.3000		-				1.1000		-
RADIONUCLIDES																
URANIUM-238	PCI/L				0.2000	.3	U									
URANIUM, TOTAL	UG/L	11.0000		NV	0.1000	.1	U	38.0000	6.2	-	49.5000	6.8	-			
URANIUM-234	PCI/L				0.2000	.5	U									
THORIUM-230	PCI/L				0.4000	.3	R									
RADIUM-226	PCI/L				1.0000	.3	UJ									
URANIUM-235/236	PCI/L				0.2000	.1	U									
THORIUM-232	PCI/L				0.3000	1	R									
RADIUM-228	PCI/L				3.0000	1.1	U									
THORIUM-228	PCI/L				1.4000	1.4	R									
GROSS ALPHA	PCI/L				0.1000	.4	NV									
GROSS BETA	PCI/L				2.3000	1	NV									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		046621			046622			118280			118281			118282		
TASK:		3.7			3.7			50.03.23			50.03.23			50.03.23		
LAB:		IT/RSL			IT			DATACHEM			DATACHEM			CORE		
WELL OR BORING NUMBER:		1403			1403			1403			1403			1403		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		23-AUG-90			23-AUG-90			16-MAY-93			16-MAY-93			16-MAY-93		
NORTH COORDINATE:		479781.6			479781.6			479781.6			479781.6			479781.6		
EAST COORDINATE:		1380561.35			1380561.35			1380561.35			1380561.35			1380561.35		
QA TYPE:		DUPLICATE			DUPLICATE			NORMAL			NORMAL			NORMAL		
QC OF:		045317			046620											
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L							0.0500		U						
NITRATE	MG/L				1.1000		-									
NITRATE/NITRITE	MG/L							2.1000		-						
PHENOLS	MG/L							0.0200		U						
PHOSPHORUS	MG/L							0.3500		-						
SULFIDE	MG/L							1.0000		U						
TOTAL ORGANIC CARBON	MG/L							3.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0300		-						
INORGANICS																
ALUMINUM	MG/L							3.2000		-	0.0140		U			
ANTIMONY	MG/L							0.0450		U	0.0450		U			
ARSENIC	MG/L							0.0023		UJ	0.0010		UJ			
BARIUM	MG/L							0.1260		-	0.0983		-			
BERYLLIUM	MG/L							0.0019		U	0.0010		U			
CADMIUM	MG/L							0.0030		U	0.0030		U			
CALCIUM	MG/L							175.0000		-	148.0000		-			
CHROMIUM	MG/L							0.0094		UJ	0.0040		UJ			
COBALT	MG/L							0.0089		-	0.0060		U			
COPPER	MG/L							0.0302		U	0.0095		U			
CYANIDE	MG/L							0.0100		U	0.0100		U			
IRON	MG/L							8.2900		-	0.0196		U			
LEAD	MG/L							0.0026		U	0.0012		J			
MAGNESIUM	MG/L							58.3000		-	46.5000		-			
MANGANESE	MG/L							1.1600		-	0.0633		-			
MERCURY	MG/L							0.0002		U	0.0002		U			
NICKEL	MG/L							0.0495		U	0.0190		U			
POTASSIUM	MG/L							2.0200		U	0.8490		U			
SELENIUM	MG/L							0.0010		R	0.0011		R			

SAMPLE NUMBER:	046621	046622	118280	118281	118282
LAB:			DATACHEM		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL ACETATE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118283	118285	118286	045255	046624
TASK:	50.03.23	50.03.23	50.03.23	3.7	3.7
LAB:	CORE	FERMCO	FERMCO	IT	IT
WELL OR BORING NUMBER:	1403	1403	1403	1411	1411
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-MAY-93	16-MAY-93	16-MAY-93	17-JAN-90	13-JUN-90
NORTH COORDINATE:	479781.6	479781.6	479781.6	479800.96	479800.96
EAST COORDINATE:	1380561.35	1380561.35	1380561.35	1379914.91	1379914.91
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.1000		U	0.1000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	20.4	0002.7	J												
URANIUM, TOTAL	UG/L	47.7	0003.3	-	46.0000		NV	43.0000		NV	9444.0000	1247	-			
URANIUM-234	PCI/L	19.6	0002.6	J												
THORIUM-230	PCI/L	0.4000	.3	J												
RADIUM-226	PCI/L	1.2000	.6	U												
URANIUM-235/236	PCI/L	0.9000	.3	J												
THORIUM-232	PCI/L	0.2000	.2	UJ												
RADIUM-228	PCI/L	3.0000	1.3	U												
THORIUM-228	PCI/L	0.6000	.3	J												
GROSS ALPHA	PCI/L	24.3	0006	NV												
GROSS BETA	PCI/L	15.9	0003.9	NV												

001677

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046625			045267			045268			046629			046630		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1411			1412			1412			1412			1412		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	14-JUN-90			05-JUN-90			06-JUN-90			13-AUG-90			13-AUG-90		
NORTH COORDINATE:	479800.96			480702.37			480702.37			480702.37			480702.37		
EAST COORDINATE:	1379914.91			1380398.11			1380398.11			1380398.11			1380398.11		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
NITRATE	MG/L													0.1000		U
INORGANICS															
ALUMINUM	MG/L	0.1030		-	0.1010		-								
ANTIMONY	MG/L	0.0300		U	0.0300		U								
ARSENIC	MG/L	0.0027		J	0.0020		UJ								
BARIUM	MG/L	0.1640		-	0.0675		-								
BERYLLIUM	MG/L	0.0020		U	0.0020		U								
CADMIUM	MG/L	0.0040		J	0.0036		J								
CALCIUM	MG/L	69.7000		-	65.1000		-								
CHROMIUM	MG/L	0.0367		J	0.0331		J								
COBALT	MG/L	0.0100		U	0.0100		U								
COPPER	MG/L	0.0100		U	0.0100		U								
CYANIDE	MG/L	0.0020		U	0.0020		UJ								
IRON	MG/L	2.6500		-	0.0367		-								
LEAD	MG/L	0.0020		UJ	0.0020		U								
MAGNESIUM	MG/L	16.4000		-	18.5000		-								
MANGANESE	MG/L	1.7900		-	0.3800		-								
MERCURY	MG/L	0.0002		UR	0.0002		UR								
MOLYBDENUM	MG/L	0.0176		-	0.0100		U								
NICKEL	MG/L	0.0379		-	0.0200		U								
POTASSIUM	MG/L	0.9740		-	1.3100		-								
SELENIUM	MG/L	0.0020		UJ	0.0020		UJ								
SILVER	MG/L	0.0172		-	0.0153		-								
SODIUM	MG/L	45.4000		-	42.5000		-								
THALLIUM	MG/L	0.0020		U	0.0028		J								
VANADIUM	MG/L	0.0152		-	0.0147		-								
ZINC	MG/L	0.0224		U	0.0126		U								

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

PESTICIDES															
4,4'-DDD	UG/L	0.1000	U	1.0000	U										
06/21/94															
SAMPLE NUMBER:		046625			045267			045268			046629			046630	
LAB:		IT			IT										
SUFFIX/FILTERFLAG:		NONE-UNF			DL-UNF			-			-			-	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE	UG/L	0.1000		U	1.0000		U								
4,4'-DDT	UG/L	0.1000		U	1.0000		U								
ALDRIN	UG/L	0.0500		U	0.5000		U								
ALPHA-BHC	UG/L	0.0500		U	0.5000		U								
ALPHA-CHLORDANE	UG/L	0.5000		U	5.0000		U								
AROCLOR-1016	UG/L	0.5000		U	5.0000		U								
AROCLOR-1221	UG/L	0.5000		U	5.0000		U								
AROCLOR-1232	UG/L	0.5000		U	5.0000		U								
AROCLOR-1242	UG/L	0.5000		U	5.0000		U								
AROCLOR-1248	UG/L	0.5000		U	5.0000		U								
AROCLOR-1254	UG/L	1.0000		U	10.0000		U								
AROCLOR-1260	UG/L	1.0000		U	10.0000		U								
BETA-BHC	UG/L	0.0500		U	0.5000		U								
DELTA-BHC	UG/L	0.0500		U	0.5000		U								
DIELDRIN	UG/L	0.1000		U	1.0000		U								
ENDOSULFAN II	UG/L	0.1000		U	1.0000		U								
ENDOSULFAN SULFATE	UG/L	0.1000		U	1.0000		U								
ENDOSULFAN-I	UG/L	0.0500		U	0.5000		U								
ENDRIN	UG/L	0.1000		U	1.0000		U								
ENDRIN KETONE	UG/L	0.1000		U	1.0000		U								
GAMMA-BHC (LINDANE)	UG/L	0.0500		U	0.5000		U								
GAMMA-CHLORDANE	UG/L	0.5000		U	5.0000		U								
HEPTACHLOR	UG/L	0.0500		U	0.5000		U								
HEPTACHLOR EPOXIDE	UG/L	0.0500		U	0.5000		U								
METHOXYCHLOR	UG/L	0.5000		U	5.0000		U								
TOXAPHENE	UG/L	1.0000		U	10.0000		U								
RADIONUCLIDES															
URANIUM, TOTAL	UG/L							1580.0000	221	-	1130.0000	157	-		
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U											
1,2-DICHLOROBENZENE	UG/L	10.0000		U											
1,3-DICHLOROBENZENE	UG/L	10.0000		U											
1,4-DICHLOROBENZENE	UG/L	10.0000		U											
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		UR											
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		UR											
2,4-DICHLOROPHENOL	UG/L	10.0000		UR											
2,4-DIMETHYLPHENOL	UG/L	10.0000		UR											

SAMPLE NUMBER:	046625			045267			045268			046629			046630		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DINITROPHENOL	UG/L	50.0000		UR												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		UJ												
2-CHLOROPHENOL	UG/L	10.0000		UR												
2-METHYLNAPHTHALENE	UG/L	10.0000		UJ												
2-METHYLPHENOL	UG/L	10.0000		UR												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		UR												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ												
3-NITROANILINE	UG/L	50.0000		U												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		UR												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		UR												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		UR												
4-NITROANILINE	UG/L	50.0000		U												
4-NITROPHENOL	UG/L	50.0000		UR												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		UJ												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		UJ												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		UJ												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		UR	50.0000		UJ									
BENZYL ALCOHOL	UG/L	10.0000		UJ												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		UJ												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		UJ												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UJ												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		UJ												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		UJ												
CHRYSENE	UG/L	10.0000		UJ												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		UJ												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												
DIMETHYL PHTHALATE	UG/L	10.0000		U												
FLUORANTHENE	UG/L	10.0000		U												
FLUORENE	UG/L	10.0000		UJ												
HEXACHLOROBENZENE	UG/L	10.0000		U												
HEXACHLOROBUTADIENE	UG/L	10.0000		U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U												

SAMPLE NUMBER:		046625		045267		045268		046629		046630	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
HEXACHLOROETHANE	UG/L	10.0000	UJ								
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	UJ								
ISOPHORONE	UG/L	10.0000	U								
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	UJ								
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U								
NAPHTHALENE	UG/L	10.0000	UJ								
NITROBENZENE	UG/L	10.0000	U								
P-CHLOROANILINE	UG/L	10.0000	U								
PENTACHLOROPHENOL	UG/L	50.0000	UR								
PHENANTHRENE	UG/L	10.0000	U								
PHENOL	MG/L	10.0000	UR								
PYRENE	UG/L	10.0000	UJ								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	5.0000	-	130.0000	-						
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	UJ	5.0000	U						
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U	5.0000	U						
1,1-DICHLOROETHANE	UG/L	21.0000	-	170.0000	-						
1,1-DICHLOROETHENE	UG/L	3.0000	J	13.0000	-						
1,2-DICHLOROETHANE	UG/L	5.0000	U	1.0000	J						
1,2-DICHLOROETHENE (TOTAL)	UG/L	550.0000	R	5.0000	U						
1,2-DICHLOROPROPANE	UG/L	5.0000	U	5.0000	U						
2-BUTANONE	UG/L	10.0000	UJ	10.0000	UJ						
2-HEXANONE	UG/L	10.0000	U	10.0000	U						
4-METHYL-2-PENTANONE	UG/L	10.0000	U	10.0000	U						
ACETONE	UG/L	10.0000	UR	2.0000	J						
BENZENE	UG/L	5.0000	U	5.0000	U						
BROMODICHLOROMETHANE	UG/L	5.0000	U	5.0000	U						
BROMOFORM	UG/L	5.0000	U	5.0000	U						
BROMOMETHANE	UG/L	10.0000	U	10.0000	U						
CARBON DISULFIDE	UG/L	5.0000	U	5.0000	U						
CARBON TETRACHLORIDE	UG/L	5.0000	U	5.0000	U						
CHLOROBENZENE	UG/L	5.0000	U	5.0000	U						
CHLOROETHANE	UG/L	10.0000	U	10.0000	U						
CHLOROFORM	UG/L	5.0000	U	5.0000	U						
CHLOROMETHANE	UG/L	10.0000	U	10.0000	U						
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U	5.0000	U						
DIBROMOCHLOROMETHANE	UG/L	5.0000	U	5.0000	U						
ETHYLBENZENE	UG/L	5.0000	U	5.0000	U						
METHYLENE CHLORIDE	UG/L	5.0000	U	13.0000	U						
STYRENE	UG/L	5.0000	U	5.0000	U						
TETRACHLOROETHENE	UG/L	43.0000	-	5.0000	U						
TOLUENE	UG/L	5.0000	U	5.0000	U						
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U	5.0000	U						

SAMPLE NUMBER:		046625		045267		045268			046629			046630		
LAB:		IT		IT										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROETHENE	UG/L	92.0000		-	5.0000		U									
VINYL ACETATE	UG/L	10.0000		U	10.0000		U									
VINYL CHLORIDE	UG/L	7.0000		J	10.0000		U									
XYLENES, TOTAL	UG/L	5.0000		U	5.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		046998			045324			045325			045407			045408		
TASK:		3.7			3.7			3.7			3.7			3.7		
LAB:		IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1412			1418			1418			1418			1418		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		04-OCT-90			17-OCT-89			17-OCT-89			17-OCT-89			17-OCT-89		
NORTH COORDINATE:		480702.37			480684.1			480684.1			480684.1			480684.1		
EAST COORDINATE:		1380398.11			1381882.72			1381882.72			1381882.72			1381882.72		
QA TYPE:		NORMAL			NORMAL			NORMAL			DUPLICATE			DUPLICATE		
QC OF:											045324			045325		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U				0.2200		-				0.3100		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				25.0000	4	-				24.0000	4	-			

001683

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	045635	046903	118459	118460	118462
TASK:	3.7	3.7	50.03.23	50.03.23	50.03.23
LAB:	IT	IT	DATACHEM	DATACHEM	FERMCO
WELL OR BORING NUMBER:	1418	1418	1418	1418	1418
DEPTH:	-	-	-	-	-
DATE COLLECTED:	31-JAN-90	29-JUN-90	26-MAY-93	26-MAY-93	26-MAY-93
NORTH COORDINATE:	480684.1	480684.1	480684.1	480684.1	480684.1
EAST COORDINATE:	1381882.72	1381882.72	1381882.72	1381882.72	1381882.72
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							390.0000		-						
AMMONIA	MG/L							0.0500		U						
CHLORIDE	MG/L							5.9000		-						
FLUORIDE	MG/L							0.2000		-						
NITRATE	MG/L	0.1800		-												
NITRATE/NITRITE	MG/L							0.0700		-						
PHENOLS	MG/L							0.0020		UJ						
PHOSPHORUS	MG/L							1.5000		-						
SULFATE	MG/L							82.0000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL ORGANIC CARBON	MG/L							2.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0200		-						
INORGANICS																
ALUMINUM	MG/L							9.5300		J	0.0140		U			
ANTIMONY	MG/L							0.0450		U	0.0450		U			
ARSENIC	MG/L							0.0024		-	0.0010		U			
BARIUM	MG/L							0.1900		J	0.1100		J			
BERYLLIUM	MG/L							0.0010		U	0.0010		U			
CADMIUM	MG/L							0.0030		U	0.0030		U			
CALCIUM	MG/L							197.0000		-	128.0000		-			
CHROMIUM	MG/L							0.0177		-	0.0040		U			
COBALT	MG/L							0.0083		-	0.0060		U			
COPPER	MG/L							0.0231		-	0.0040		U			
CYANIDE	MG/L							0.0100		U	0.0100		U			
IRON	MG/L							19.9000		-	0.0150		U			
LEAD	MG/L							0.0062		-	0.0010		U			
MAGNESIUM	MG/L							57.0000		-	35.0000		-			
MANGANESE	MG/L							0.6860		-	0.0647		-			

001684

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		045635			046903			118459			118460			118462		
LAB:								DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L							0.0002		U	0.0002		U			
NICKEL	MG/L							0.0246		-	0.0190		U			
POTASSIUM	MG/L							4.2400		-	1.1900		-			
SELENIUM	MG/L							0.0020		UJ	0.0020		U			
SILVER	MG/L							0.0030		UJ	0.0030		UJ			
SODIUM	MG/L							7.6700		-	7.0600		-			
THALLIUM	MG/L							0.0010		U	0.0010		U			
VANADIUM	MG/L							0.0182		-	0.0040		U			
ZINC	MG/L							0.0553		-	0.0060		U			
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				30.8000	4.4	-							4.2000		NV
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHANE	UG/L							10.0000		U						
1,1-DICHLOROETHENE	UG/L							10.0000		U						
1,2-DICHLOROETHANE	UG/L							10.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		U						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						

SAMPLE NUMBER:	045635			046903			118459			118460			118462		
LAB:							DATACHEM								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRANS-1,3-DICHLOROPROPENE UG/L							10.0000		U						
TRICHLOROETHENE UG/L							10.0000		U						
VINYL ACETATE UG/L							10.0000		U						
VINYL CHLORIDE UG/L							10.0000		U						
XYLENES, TOTAL UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118463	118464	118465	046840	046841
TASK:	50.03.23	50.03.23	50.03.23	3.7	3.7
LAB:	FERMCO	CORE	CORE	IT	IT
WELL OR BORING NUMBER:	1418	1418	1418	1420	1420
DEPTH:	-	-	-	-	-
DATE COLLECTED:	26-MAY-93	26-MAY-93	26-MAY-93	30-JUN-90	30-JUN-90
NORTH COORDINATE:	480684.1	480684.1	480684.1	480645.76	480645.76
EAST COORDINATE:	1381882.72	1381882.72	1381882.72	1380293.54	1380293.54
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													105.0000		J
RADIONUCLIDES																
URANIUM-238	PCI/L				1.9000	.6	J	2.3000	.4	J						
URANIUM, TOTAL	UG/L	6.1000		NV	5.1000	.4	-	6.7000	.5	-	986.0000	139	-			
URANIUM-234	PCI/L				2.0000	.4	J	2.3000	.4	J						
THORIUM-230	PCI/L				0.2000	.3	R	0.4000	.3	J						
RADIUM-226	PCI/L				1.7000	.5	-	1.0000	.4	UJ						
URANIUM-235/236	PCI/L				0.3000	.5	J	0.2000	.5	UJ						
THORIUM-232	PCI/L				0.0000	.2	R	0.2000	.3	UJ						
THORIUM, TOTAL	UG/L							1.8240	.3	NV						
RADIUM-228	PCI/L				3.0000	.9	U	3.0000	1.1	U						
THORIUM-228	PCI/L				0.3000	2.6	R	0.2000	.6	UJ						
TECHNETIUM-99	PCI/L				15.0000	7.6	U	15.0000	5.6	UJ						
GROSS ALPHA	PCI/L				3.7000	3.3	UNV	14.9000	5.8	NV						
GROSS BETA	PCI/L				1.2000	3.3	UNV	39.5000	5.7	NV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		046911			046913			046914			062405			062406		
TASK:		3.7			3.7			3.7			04.30			04.30		
LAB:		IT			IT			IT			WEMCO			IT		
WELL OR BORING NUMBER:		1423			1423			1423			1423			1423		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		28-AUG-90			07-JAN-91			07-JAN-91			29-OCT-92			29-OCT-92		
NORTH COORDINATE:		480932.91			480932.91			480932.91			480932.91			480932.91		
EAST COORDINATE:		1381617.26			1381617.26			1381617.26			1381617.26			1381617.26		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							9.9500		-						
INORGANICS																
ALUMINUM	MG/L													0.3100		-
ANTIMONY	MG/L													0.0050		U
ARSENIC	MG/L													0.0025		U
BARIUM	MG/L													0.0838		-
BERYLLIUM	MG/L													0.0020		U
CADMIUM	MG/L													0.0050		U
CALCIUM	MG/L													347.0000		-
CHROMIUM	MG/L													0.0100		U
COBALT	MG/L													0.0100		U
COPPER	MG/L													0.0100		U
CYANIDE	MG/L													0.0010		U
IRON	MG/L													0.0200		U
LEAD	MG/L													0.0025		U
MAGNESIUM	MG/L													103.0000		-
MANGANESE	MG/L													0.6680		-
MERCURY	MG/L													0.0002		U
MOLYBDENUM	MG/L													0.0200		U
NICKEL	MG/L													0.0456		-
POTASSIUM	MG/L													24.8000		-
SELENIUM	MG/L													0.0020		U
SILICON	MG/L													9.8000		-
SILVER	MG/L													0.0100		U
SODIUM	MG/L													175.0000		-
THALLIUM	MG/L													0.0100		UJ
VANADIUM	MG/L													0.0100		U
ZINC	MG/L													0.0130		-

5704

001688

SAMPLE NUMBER:		046911			046913			046914			062405			062406		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			F-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDD	UG/L													0.1000		U
4,4'-DDE	UG/L													0.1000		U
4,4'-DDT	UG/L													0.1000		U
ALDRIN	UG/L													0.0500		U
ALPHA-BHC	UG/L													0.0500		U
ALPHA-CHLORDANE	UG/L													0.5000		U
AROCLOR-1016	UG/L													0.5000		U
AROCLOR-1221	UG/L													0.5000		U
AROCLOR-1232	UG/L													0.5000		U
AROCLOR-1242	UG/L													0.5000		U
AROCLOR-1248	UG/L													0.5000		U
AROCLOR-1254	UG/L													1.0000		U
AROCLOR-1260	UG/L													1.0000		U
BETA-BHC	UG/L													0.0500		U
DELTA-BHC	UG/L													0.0500		U
DIELDRIN	UG/L													0.1000		U
ENDOSULFAN II	UG/L													0.1000		U
ENDOSULFAN SULFATE	UG/L													0.1000		U
ENDOSULFAN-I	UG/L													0.0500		U
ENDRIN	UG/L													0.1000		U
ENDRIN KETONE	UG/L													0.1000		U
GAMMA-BHC (LINDANE)	UG/L													0.0500		U
GAMMA-CHLORDANE	UG/L													0.5000		U
HEPTACHLOR	UG/L													0.0500		U
HEPTACHLOR EPOXIDE	UG/L													0.0500		U
METHOXYCHLOR	UG/L													0.5000		U
TOXAPHENE	UG/L													1.0000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	15600.00000		-	15000.0000	2060	-				23000000.0		NV	21900.0000	2930	J
THORIUM-230	PCI/L													0.2000	.11	UJ
RADIUM-226	PCI/L													1.0000	.11	UJ
THORIUM-232	PCI/L													0.2000		UJ
THORIUM, TOTAL	UG/L													0.5000		UJ
RADIUM-228	PCI/L													10.1000	1.6	J
THORIUM-228	PCI/L													0.4400	.18	J
PLUTONIUM-239/240	PCI/L													0.5000		UJ
PLUTONIUM-238	PCI/L													0.5000		UJ
STRONTIUM-90	PCI/L													1.0000		UJ
TECHNETIUM-99	PCI/L													16.0000		UJ
RUTHENIUM-106	PCI/L													150.0000		UJ
CESIUM-137	PCI/L													13.5000		UJ
GROSS ALPHA	PCI/L													18400.0000	1900	NV
GROSS BETA	PCI/L													4160.0000	420	NV

001685

SAMPLE NUMBER:	046911	046913	046914	062405	062406
LAB:					IT/RSL
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U

001690

5704

SAMPLE NUMBER:		046911			046913			046914			062405			062406		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		U
METHYLENE CHLORIDE	UG/L													5.0000		UJ
STYRENE	UG/L													5.0000		U
TETRACHLOROETHENE	UG/L													5.0000		U
TOLUENE	UG/L													5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
TRICHLOROETHENE	UG/L													22.0000		-
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	066902			047040			047044			047048			046746		
TASK:	3.7			20.03.04			20.03.04			20.03.04			3.7		
LAB:	IT			IT/MWL			IT-KNOX			IT/RSL			IT		
WELL OR BORING NUMBER:	1423			1433			1433			1433			1441		
DEPTH:	-12			-			-			-			-		
DATE COLLECTED:	30-JUL-90			16-NOV-92			30-NOV-92			02-DEC-92			09-MAY-90		
NORTH COORDINATE:	480932.91			477991.53			477991.53			477991.53			480091.99		
EAST COORDINATE:	1381617.26			1379116.16			1379116.16			1379116.16			1383021.42		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L				0.1000		U	0.1260		-						
CHLORIDE	MG/L				5.1500		-	4.6200		-						
FLUORIDE	MG/L				1.2800		J	1.4200		-						
NITRATE	MG/L							0.2200		-				1.4800		J
PHENOLS	MG/L				0.0100		U	0.0100		U						
PHOSPHORUS	MG/L				0.3400		J	0.3600		-						
SULFATE	MG/L				61.2000		-	61.4000		U						
SULFIDE	MG/L				0.5000		U	0.5000		UJ						
TOTAL ORGANIC CARBON	MG/L				4.4000		-	3.5800		-						
TOTAL ORGANIC HALIDES	MG/L				0.0141		-	10.0000		UJ						
TOTAL ORGANIC NITROGEN	MG/L				0.2880		-	0.1430		-						
INORGANICS																
ALUMINUM	MG/L	0.6080		-	0.1040		U	0.0789		U						
ANTIMONY	MG/L	0.0418		-	0.0050		U	0.0050		U						
ARSENIC	MG/L	0.0020		UJ	0.0030		U	0.0020		U						
BARIUM	MG/L	0.0680		-	0.0797		-	0.0801		-						
BERYLLIUM	MG/L	0.0052		-	0.0020		U	0.0020		U						
CADMIUM	MG/L	0.0107		J	0.0050		U	0.0050		U						
CALCIUM	MG/L	294.0000		-	129.0000		-	127.0000		-						
CHROMIUM	MG/L	0.1610		-	0.0100		U	0.0100		U						
COBALT	MG/L	0.0140		-	0.0100		U	0.0100		U						
COPPER	MG/L	0.0359		-	0.0306		-	0.0173		-						
CYANIDE	MG/L	0.0020		UJ	0.0020		U	0.0020		U						
IRON	MG/L	0.0924		-	0.0200		U	0.0200		U						
LEAD	MG/L	0.0069		J	0.0030		U	0.0020		UJ						
MAGNESIUM	MG/L	76.1000		-	36.2000		-	38.7000		-						
MANGANESE	MG/L	1.1300		-	0.1110		-	0.0502		-						
MERCURY	MG/L	0.0003		-	0.0002		U	0.0002		U						

001692

5704

SAMPLE NUMBER:		066902		047040			047044			047048			046746		
LAB:		IT		IT/MWL			IT-KNOX								
SUFFIX/FILTERFLAG:		NONE-UNF		F-FIL			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MOLYBDENUM	MG/L				0.0200		U	0.0200		U						
NICKEL	MG/L	0.0416		-	0.0200		U	0.0200		U						
POTASSIUM	MG/L	11.6000		-	2.8400		-	2.5100		-						
SELENIUM	MG/L	0.0020		UJ	0.0020		U	0.0020		U						
SILICON	MG/L				10.5000		-	10.2000		-						
SILVER	MG/L	0.0729		-	0.0100		U	0.0100		U						
SODIUM	MG/L	89.8000		-	9.0900		-	9.4600		-						
THALLIUM	MG/L	0.0020		UJ	0.0020		U	0.0020		U						
VANADIUM	MG/L	0.0542		-	0.0100		U	0.0100		U						
ZINC	MG/L	0.0142		-	0.0100		-	0.0084		-						
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U	0.1000		U	0.1000		U						
4,4'-DDE	UG/L	0.1000		U	0.1000		U	0.1000		U						
4,4'-DDT	UG/L	0.1000		U	0.1000		U	0.1000		U						
ALDRIN	UG/L	0.0500		U	0.0500		U	0.0500		U						
ALPHA-BHC	UG/L	0.0500		U	0.0500		U	0.0500		U						
ALPHA-CHLORDANE	UG/L	0.5000		U	0.5000		U	0.5000		U						
AROCLOR-1016	UG/L	0.5000		U	0.5000		U	0.5000		U						
AROCLOR-1221	UG/L	0.5000		U	0.5000		U	0.5000		U						
AROCLOR-1232	UG/L	0.5000		U	0.5000		U	0.5000		U						
AROCLOR-1242	UG/L	0.5000		U	0.5000		U	0.5000		U						
AROCLOR-1248	UG/L	0.5000		U	0.5000		U	0.5000		U						
AROCLOR-1254	UG/L	1.0000		U	1.0000		U	1.0000		U						
AROCLOR-1260	UG/L	1.0000		U	1.0000		U	1.0000		U						
BETA-BHC	UG/L	0.0500		U	0.0500		U	0.0500		U						
DELTA-BHC	UG/L	0.0500		U	0.0500		U	0.0500		U						
DIELDRIN	UG/L	0.1000		U	0.1000		U	0.1000		U						
ENDOSULFAN II	UG/L	0.1000		U	0.1000		U	0.1000		U						
ENDOSULFAN SULFATE	UG/L	0.1000		U	0.1000		U	0.1000		U						
ENDOSULFAN-I	UG/L	0.0500		U	0.0500		U	0.0500		U						
ENDRIN	UG/L	0.1000		U	0.1000		U	0.1000		U						
ENDRIN KETONE	UG/L	0.1000		U	0.1000		U	0.1000		U						
GAMMA-BHC (LINDANE)	UG/L	0.0500		U	0.0500		U	0.0500		U						
GAMMA-CHLORDANE	UG/L	0.5000		U	0.5000		U	0.5000		U						
HEPTACHLOR	UG/L	0.0500		U	0.0500		U	0.0500		U						
HEPTACHLOR EPOXIDE	UG/L	0.0500		U	0.0500		U	0.0500		U						
METHOXYCHLOR	UG/L	0.5000		U	0.5000		U	0.5000		U						
TOXAPHENE	UG/L	1.0000		U	1.0000		U	1.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L				1537.0000	698	J				731.0000	132	J			
URANIUM, TOTAL	UG/L				3969.0000	529	-				3390.0000	470	-			

001693

SAMPLE NUMBER:		066902			047040			047044			047048			046746		
LAB:					IT/RSL						IT/RSL					
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L				1530.0000	695	J				723.0000	130	J			
THORIUM-230	PCI/L				0.3200	.16	U				2.1800		R			
RADIUM-226	PCI/L				1.0000	.33	U				1.0000	.12	UJ			
URANIUM-235/236	PCI/L										31.9000	8.1	J			
THORIUM-232	PCI/L				0.3700	.18	J				0.8600		R			
THORIUM, TOTAL	UG/L				3.4000	1.66	J				7.7200		R			
RADIUM-228	PCI/L				3.6400		UJ				3.0000		UJ			
THORIUM-228	PCI/L				0.2200		UJ				4.6100		R			
NEPTUNIUM-237	PCI/L										0.5000	.32	UJ			
PLUTONIUM-239/240	PCI/L				0.5000		UJ				0.5000		UJ			
PLUTONIUM-238	PCI/L				0.5000		UJ				0.5000	.24	U			
STRONTIUM-90	PCI/L				1.5100		UJ				10.8000	1.59	U			
TECHNETIUM-99	PCI/L				15.0000		UJ				15.0000		UJ			
RUTHENIUM-106	PCI/L				150.0000		UJ				150.0000		UJ			
CESIUM-137	PCI/L				15.2000		UJ				17.7000		UJ			
GROSS ALPHA	PCI/L				2619.0000	275	-	372.0000	40	J						
GROSS BETA	PCI/L				1286.0000	130	-	129.0000	13	-	739.0000	77	-			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U						
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U						
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U						
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	50.0000		U	50.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
2,4-DIMETHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
2,4-DINITROPHENOL	UG/L	50.0000		U	50.0000		UJ	50.0000		U						
2,4-DINITROTOLUENE	UG/L	10.0000		UJ	10.0000		U	10.0000		U						
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U	10.0000		U						
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		U	10.0000		U						
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		U	10.0000		U						
2-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
2-NITROANILINE	UG/L	50.0000		UJ	50.0000		U	50.0000		U						
2-NITROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U	20.0000		U	20.0000		U						
3-NITROANILINE	UG/L	50.0000		UJ	50.0000		U	50.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U	50.0000		UJ	50.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		U	10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000		U	10.0000		U						
4-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U						
4-NITROANILINE	UG/L	50.0000		UJ	50.0000		U	50.0000		U						

C01694

5704

SAMPLE NUMBER:		066902		047040		047044		047048		046746	
LAB:		IT		IT/MWL		IT-KNOX					
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
4-NITROPHENOL	UG/L	50.0000	UJ	50.0000	U	50.0000	U				
ACENAPHTHENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
ACENAPHTHYLENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
ANTHRACENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BENZO(A)ANTHRACENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BENZO(A)PYRENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BENZO(B)FLUORANTHENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BENZO(G,H,I)PERYLENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BENZO(K)FLUORANTHENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BENZOIC ACID	UG/L	50.0000	U	50.0000	U	50.0000	U				
BENZYL ALCOHOL	UG/L	10.0000	U	10.0000	U	10.0000	U				
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	U	10.0000	U	10.0000	U				
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	UR	10.0000	U	10.0000	U				
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U				
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U				
CHRYSENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U				
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U				
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	UJ	10.0000	U	10.0000	U				
DIBENZOFURAN	UG/L	10.0000	U	10.0000	U	10.0000	U				
DIETHYL PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U				
DIMETHYL PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U				
FLUORANTHENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
FLUORENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
HEXACHLOROBENZENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
HEXACHLOROBUTADIENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	UJ	10.0000	U	10.0000	U				
HEXACHLOROETHANE	UG/L	10.0000	UJ	10.0000	U	10.0000	U				
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	UJ	10.0000	U	10.0000	U				
ISOPHORONE	UG/L	10.0000	UJ	10.0000	U	10.0000	U				
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	UJ	10.0000	U	10.0000	U				
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U	10.0000	U	10.0000	U				
NAPHTHALENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
NITROBENZENE	UG/L	10.0000	UJ	10.0000	U	10.0000	U				
P-CHLOROANILINE	UG/L	10.0000	U	10.0000	U	10.0000	U				
PENTACHLOROPHENOL	UG/L	50.0000	U	50.0000	U	50.0000	U				
PHENANTHRENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
PHENOL	MG/L	10.0000	U	10.0000	U	10.0000	U				
PYRENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
TRIBUTYL PHOSPHATE	UG/L			10.0000	U	10.0000	U				
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	120.0000	-	5.0000	U	5.0000	U				

SAMPLE NUMBER:	066902			047040		047044			047048			046746		
LAB:	IT			IT/MWL		IT-KNOX								
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF		NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U	5.0000		U	5.0000		U						
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U	5.0000		U	5.0000		U						
1,1-DICHLOROETHANE	UG/L	120.0000		-	5.0000		U	5.0000		U						
1,1-DICHLOROETHENE	UG/L	88.0000		-	5.0000		U	5.0000		U						
1,2-DICHLOROETHANE	UG/L	26.0000		-	5.0000		U	5.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L	4.0000		J	5.0000		U	5.0000		U						
1,2-DICHLOROPROPANE	UG/L	5.0000		U	5.0000		U	5.0000		U						
2-BUTANONE	UG/L	10.0000		U	10.0000		UJ	10.0000		U						
2-HEXANONE	UG/L	10.0000		U	10.0000		UJ	10.0000		U						
4-METHYL-2-PENTANONE	UG/L	10.0000		U	10.0000		UJ	10.0000		U						
ACETONE	UG/L	10.0000		U	10.0000		U									
BENZENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
BROMODICHLOROMETHANE	UG/L	5.0000		U	5.0000		U	5.0000		U						
BROMOFORM	UG/L	5.0000		U	5.0000		U	5.0000		U						
BROMOMETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U						
CARBON DISULFIDE	UG/L	5.0000		U	5.0000		U	5.0000		U						
CARBON TETRACHLORIDE	UG/L	5.0000		U	5.0000		U	5.0000		U						
CHLOROBENZENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
CHLOROETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U						
CHLOROFORM	UG/L	5.0000		U	5.0000		U	5.0000		U						
CHLOROMETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
DIBROMOCHLOROMETHANE	UG/L	5.0000		U	5.0000		U	5.0000		U						
ETHYLBENZENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
METHYLENE CHLORIDE	UG/L	11.0000		U	5.0000		U									
STYRENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
TETRACHLOROETHENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
TOLUENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	5.0000		U	5.0000		U						
TRICHLOROETHENE	UG/L	120.0000		-	5.0000		U	5.0000		U						
VINYL ACETATE	UG/L	10.0000		UJ	10.0000		UJ	10.0000		U						
VINYL CHLORIDE	UG/L	2.0000		J	10.0000		U	10.0000		U						
XYLENES, TOTAL	UG/L	5.0000		U	5.0000		U	5.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046748	046764	046765	118397	118398
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	FERMCO	FERMCO
WELL OR BORING NUMBER:	1441	1441	1441	1441	1441
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-MAY-90	17-JUL-90	17-JUL-90	25-MAY-93	25-MAY-93
NORTH COORDINATE:	480091.99	480091.99	480091.99	480091.99	480091.99
EAST COORDINATE:	1383021.42	1383021.42	1383021.42	1383021.42	1383021.42
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							0.6800		J						
INORGANICS																
ALUMINUM	MG/L	0.0697		J												
ANTIMONY	MG/L	0.0300		UJ												
ARSENIC	MG/L	0.0020		UJ												
BARIUM	MG/L	0.0917		J												
BERYLLIUM	MG/L	0.0020		UJ												
CADMIUM	MG/L	0.0065		J												
CALCIUM	MG/L	110.0000		J												
CHROMIUM	MG/L	0.0245		J												
COBALT	MG/L	0.0100		UJ												
COPPER	MG/L	0.0100		UJ												
CYANIDE	MG/L	0.0020		UJ												
IRON	MG/L	0.0497		J												
LEAD	MG/L	0.0020		UJ												
MAGNESIUM	MG/L	42.5000		J												
MANGANESE	MG/L	0.5910		J												
MERCURY	MG/L	0.0002		UR												
MOLYBDENUM	MG/L	0.0114		J												
NICKEL	MG/L	0.0372		J												
POTASSIUM	MG/L	2.8100		-												
SELENIUM	MG/L	0.0020		UJ												
SILVER	MG/L	0.0152		J												
SODIUM	MG/L	55.8000		J												
THALLIUM	MG/L	0.0020		UR												
VANADIUM	MG/L	0.0119		J												
ZINC	MG/L	0.0243		J												

001697

PESTICIDES

4,4'-DDD UG/L 0.1000 U
06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1211

SAMPLE NUMBER:	046748			046764			046765			118397			118398		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
4,4'-DDE UG/L	0.1000		U												
4,4'-DDT UG/L	0.1000		U												
ALDRIN UG/L	0.0500		U												
ALPHA-BHC UG/L	0.0500		U												
ALPHA-CHLORDANE UG/L	0.5000		U												
AROCLOR-1016 UG/L	0.5000		U												
AROCLOR-1221 UG/L	0.5000		U												
AROCLOR-1232 UG/L	0.5000		U												
AROCLOR-1242 UG/L	0.5000		U												
AROCLOR-1248 UG/L	0.5000		U												
AROCLOR-1254 UG/L	1.0000		U												
AROCLOR-1260 UG/L	1.0000		U												
BETA-BHC UG/L	0.0500		U												
DELTA-BHC UG/L	0.0500		U												
DIELDRIN UG/L	0.1000		U												
ENDOSULFAN II UG/L	0.1000		U												
ENDOSULFAN SULFATE UG/L	0.1000		U												
ENDOSULFAN-I UG/L	0.0500		U												
ENDRIN UG/L	0.1000		U												
ENDRIN KETONE UG/L	0.1000		U												
GAMMA-BHC (LINDANE) UG/L	0.0500		U												
GAMMA-CHLORDANE UG/L	0.5000		U												
HEPTACHLOR UG/L	0.0500		U												
HEPTACHLOR EPOXIDE UG/L	0.0500		U												
METHOXYCHLOR UG/L	0.5000		U												
TOXAPHENE UG/L	1.0000		U												
RADIONUCLIDES															
URANIUM, TOTAL UG/L				58.7000	9.1	-				88.0000		NV	73.0000		NV
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L	10.0000		UR												
1,2-DICHLOROBENZENE UG/L	10.0000		UR												
1,3-DICHLOROBENZENE UG/L	10.0000		UR												
1,4-DICHLOROBENZENE UG/L	10.0000		UR												
2,4,5-TRICHLOROPHENOL UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL UG/L	10.0000		U												
2,4-DICHLOROPHENOL UG/L	10.0000		U												
2,4-DIMETHYLPHENOL UG/L	10.0000		U												

001698

5704

SAMPLE NUMBER:		046748		046764		046765		118397		118398	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
2,4-DINITROPHENOL	UG/L	50.0000	U								
2,4-DINITROTOLUENE	UG/L	10.0000	UR								
2,6-DINITROTOLUENE	UG/L	10.0000	UR								
2-CHLORONAPHTHALENE	UG/L	10.0000	UR								
2-CHLOROPHENOL	UG/L	10.0000	U								
2-METHYLNAPHTHALENE	UG/L	10.0000	UR								
2-METHYLPHENOL	UG/L	10.0000	U								
2-NITROANILINE	UG/L	50.0000	UR								
2-NITROPHENOL	UG/L	10.0000	U								
3,3'-DICHLOROBENZIDINE	UG/L	20.0000	UR								
3-NITROANILINE	UG/L	50.0000	UR								
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000	U								
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000	UR								
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000	U								
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000	UR								
4-METHYLPHENOL	UG/L	10.0000	U								
4-NITROANILINE	UG/L	50.0000	UR								
4-NITROPHENOL	UG/L	50.0000	UJ								
ACENAPHTHENE	UG/L	10.0000	UR								
ACENAPHTHYLENE	UG/L	10.0000	UR								
ANTHRACENE	UG/L	10.0000	UR								
BENZO(A)ANTHRACENE	UG/L	10.0000	UR								
BENZO(A)PYRENE	UG/L	10.0000	UR								
BENZO(B)FLUORANTHENE	UG/L	10.0000	UR								
BENZO(G,H,I)PERYLENE	UG/L	10.0000	UR								
BENZO(K)FLUORANTHENE	UG/L	10.0000	UR								
BENZOIC ACID	UG/L	50.0000	U								
BENZYL ALCOHOL	UG/L	10.0000	UR								
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000	UR								
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	UR								
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	UR								
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000	UR								
BUTYL BENZYL PHTHALATE	UG/L	10.0000	UR								
CHRYSENE	UG/L	10.0000	UR								
DI-N-BUTYL PHTHALATE	UG/L	3.0000	R								
DI-N-OCTYL PHTHALATE	UG/L	10.0000	UR								
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	UR								
DIBENZOFURAN	UG/L	10.0000	UR								
DIETHYL PHTHALATE	UG/L	10.0000	UR								
DIMETHYL PHTHALATE	UG/L	10.0000	UR								
FLUORANTHENE	UG/L	10.0000	UR								
FLUORENE	UG/L	10.0000	UR								
HEXACHLOROBENZENE	UG/L	10.0000	UR								
HEXACHLOROBUTADIENE	UG/L	10.0000	UR								
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	UR								

001639

SAMPLE NUMBER:		046748		046764		046765		118397		118398	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
HEXACHLOROETHANE	UG/L	10.0000	UR								
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	UR								
ISOPHORONE	UG/L	10.0000	UR								
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	UR								
N-NITROSODIPHENYLAMINE	UG/L	10.0000	UR								
NAPHTHALENE	UG/L	10.0000	UR								
NITROBENZENE	UG/L	10.0000	UR								
P-CHLOROANILINE	UG/L	10.0000	UR								
PENTACHLOROPHENOL	UG/L	50.0000	U								
PHENANTHRENE	UG/L	10.0000	UR								
PHENOL	MG/L	10.0000	U								
PYRENE	UG/L	10.0000	UR								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	4.0000	J								
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U								
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U								
1,1-DICHLOROETHANE	UG/L	1.0000	J								
1,1-DICHLOROETHENE	UG/L	5.0000	U								
1,2-DICHLOROETHANE	UG/L	5.0000	U								
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000	-								
1,2-DICHLOROPROPANE	UG/L	5.0000	U								
2-BUTANONE	UG/L	10.0000	U								
2-HEXANONE	UG/L	10.0000	U								
4-METHYL-2-PENTANONE	UG/L	10.0000	U								
ACETONE	UG/L	10.0000	U								
BENZENE	UG/L	5.0000	U								
BROMODICHLOROMETHANE	UG/L	5.0000	U								
BROMOFORM	UG/L	5.0000	U								
BROMOMETHANE	UG/L	10.0000	U								
CARBON DISULFIDE	UG/L	5.0000	U								
CARBON TETRACHLORIDE	UG/L	5.0000	U								
CHLOROBENZENE	UG/L	5.0000	U								
CHLOROETHANE	UG/L	10.0000	U								
CHLOROFORM	UG/L	5.0000	U								
CHLOROMETHANE	UG/L	10.0000	U								
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U								
DIBROMOCHLOROMETHANE	UG/L	5.0000	U								
ETHYLBENZENE	UG/L	5.0000	U								
METHYLENE CHLORIDE	UG/L	5.0000	U								
STYRENE	UG/L	5.0000	U								
TETRACHLOROETHENE	UG/L	5.0000	-								
TOLUENE	UG/L	5.0000	U								
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U								

SAMPLE NUMBER:		046748		046764		046765		118397		118398	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
TRICHLOROETHENE	UG/L	6.0000	-								
VINYL ACETATE	UG/L	10.0000	U								
VINYL CHLORIDE	UG/L	10.0000	U								
XYLENES, TOTAL	UG/L	5.0000	U								

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118399			118401-1			118402			118403			046750		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			3.7		
LAB:		DATACHEM			DATACHEM			CORE			CORE			IT		
WELL OR BORING NUMBER:		1441			1441			1441			1441			1442		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		25-MAY-93			25-MAY-93			25-MAY-93			25-MAY-93			18-MAY-90		
NORTH COORDINATE:		480091.99			480091.99			480091.99			480091.99			480085.14		
EAST COORDINATE:		1383021.42			1383021.42			1383021.42			1383021.42			1383110.69		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.0500		U												
NITRATE	MG/L													2.7300		J
NITRATE/NITRITE	MG/L	0.0600		-												
PHENOLS	MG/L	0.0200		U												
PHOSPHORUS	MG/L	2.1000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	2.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0500		-												
INORGANICS																
ALUMINUM	MG/L	27.1000		-	0.0235		U									
ANTIMONY	MG/L	0.0450		U	0.0450		U									
ARSENIC	MG/L	0.0044		J	0.0010		UJ									
BARIUM	MG/L	0.2350		-	0.0485		-									
BERYLLIUM	MG/L	0.0010		UJ	0.0010		UJ									
CADMIUM	MG/L	0.0030		U	0.0030		U									
CALCIUM	MG/L	231.0000		-	81.7000		-									
CHROMIUM	MG/L	0.0366		U	0.0040		U									
COBALT	MG/L	0.0261		U	0.0060		U									
COPPER	MG/L	0.0431		-	0.0040		U									
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L	53.4000		-	0.0828		U									
LEAD	MG/L	0.0238		R	0.0010		UR									
MAGNESIUM	MG/L	73.6000		-	27.1000		-									
MANGANESE	MG/L	2.2700		-	0.1680		-									
MERCURY	MG/L	0.0002		U	0.0002		U									
NICKEL	MG/L	0.0899		U	0.0190		U									
POTASSIUM	MG/L	6.3800		-	1.0900		-									
SELENIUM	MG/L	0.0200		UJ	0.0020		UJ									

SAMPLE NUMBER:		118399		118401-1		118402			118403			046750		
LAB:		DATACHEM		DATACHEM										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS														
SILVER	MG/L	0.0030	UJ	0.0030	UJ									
SODIUM	MG/L	50.1000	J	59.5000	J									
THALLIUM	MG/L	0.0010	UJ	0.0010	UJ									
VANADIUM	MG/L	0.0593	-	0.0060	U									
ZINC	MG/L	0.1170	-	0.0060	U									
RADIONUCLIDES														
URANIUM-238	PCI/L					49.9000	9.7	J	48.0000	5.4	J			
URANIUM, TOTAL	UG/L					142.0000	9.9	-	155.0000	10.8	-			
URANIUM-234	PCI/L					47.4000	9.2	J	46.1000	5.2	J			
THORIUM-230	PCI/L					0.2000	.2	UJ	0.5000	.3	J			
RADIUM-226	PCI/L					1.0000	.3	U	1.5000	.5	-			
URANIUM-235/236	PCI/L					2.0000	.8	J	2.6000	.8	J			
THORIUM-232	PCI/L					0.2000	.3	UJ	0.3000	.3	J			
THORIUM, TOTAL	UG/L					1.8240	.3	NV	2.7361	.3	NV			
RADIUM-228	PCI/L					3.0000	1.4	U	3.0000	1.4	U			
THORIUM-228	PCI/L					0.2000	.8	UJ	0.5000	.4	J			
TECHNETIUM-99	PCI/L								106.0000	10.7	J			
GROSS ALPHA	PCI/L					54.8000	4.5	NV	103.0000	11.1	NV			
GROSS BETA	PCI/L					82.0000	3.1	NV	179.0000	8.6	NV			
VOLATILES														
1,1,1-TRICHLOROETHANE	UG/L	3.0000	J											
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000	U											
1,1,2-TRICHLOROETHANE	UG/L	10.0000	U											
1,1-DICHLOROETHANE	UG/L	10.0000	U											
1,1-DICHLOROETHENE	UG/L	10.0000	U											
1,2-DICHLOROETHANE	UG/L	10.0000	U											
1,2-DICHLOROETHENE (TOTAL)	UG/L	9.0000	J											
1,2-DICHLOROPROPANE	UG/L	10.0000	U											
2-BUTANONE	UG/L	10.0000	U											
2-HEXANONE	UG/L	10.0000	U											
4-METHYL-2-PENTANONE	UG/L	10.0000	U											
ACETONE	UG/L	10.0000	U											
BENZENE	UG/L	10.0000	U											
BROMODICHLOROMETHANE	UG/L	10.0000	U											
BROMOFORM	UG/L	10.0000	U											
BROMOMETHANE	UG/L	10.0000	U											
CARBON DISULFIDE	UG/L	10.0000	U											
CARBON TETRACHLORIDE	UG/L	10.0000	U											
CHLOROBENZENE	UG/L	10.0000	U											
CHLOROETHANE	UG/L	10.0000	U											
CHLOROFORM	UG/L	10.0000	U											

001703

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046934	046935	046936	046970	118737
TASK:	3.7	3.7	3.7	3.7	50.03.23
LAB:	IT	IT	IT	IT	TCT
WELL OR BORING NUMBER:	1442	1442	1442	1442	1442
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-MAY-90	21-MAY-90	17-JUL-90	18-JUL-90	08-JUL-93
NORTH COORDINATE:	480085.14	480085.14	480085.14	480085.14	480085.14
EAST COORDINATE:	1383110.69	1383110.69	1383110.69	1383110.69	1383110.69
QA TYPE:	NORMAL	DUPLICATE	NORMAL	NORMAL	NORMAL
QC OF:		046934			
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													306.0000		-
AMMONIA	MG/L													0.0300		U
CHLORIDE	MG/L													15.1000		-
FLUORIDE	MG/L													0.2900		-
NITRATE	MG/L							1.9000		J						
NITRITE, AS NITROGEN	MG/L													1.6000		-
PHENOLS	MG/L													0.0050		U
PHOSPHATE	MG/L													0.1550		R
SULFATE	MG/L													138.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL KJELDAHL NITROGEN	MG/L													0.1920		-
TOTAL ORGANIC CARBON	MG/L													2.3000		J
TOTAL ORGANIC HALIDES	MG/L													0.0527		J
TOTAL ORGANIC NITROGEN	MG/L													0.1920		-
INORGANICS																
ALUMINUM	MG/L	0.0963		-	0.1100		-							3.0000		-
ANTIMONY	MG/L	0.0300		U	0.0300		U							0.0140		UJ
ARSENIC	MG/L	0.0020		U	0.0020		U							0.0028		-
BARIUM	MG/L	0.0567		-	0.0560		-							0.0929		-
BERYLLIUM	MG/L	0.0020		U	0.0022		-							0.0050		UR
CADMIUM	MG/L	0.0060		-	0.0059		-							0.0050		U
CALCIUM	MG/L	105.0000		J	103.0000		J							120.0000		-
CHROMIUM	MG/L	0.0371		-	0.0366		-							0.0060		UJ
COBALT	MG/L	0.0100		U	0.0100		U							0.0170		U
COPPER	MG/L	0.0105		-	0.0103		-							0.0090		U
CYANIDE	MG/L	0.0020		U	0.0020		U							0.0050		U
IRON	MG/L	0.0409		U	0.0574		U							2.9000		-
LEAD	MG/L	0.0020		U	0.0020		U							0.0074		-

001704

5704

SAMPLE NUMBER:		046934		046935		046936			046970			118737	
LAB:		IT		IT								TCT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		-			-			NONE-UNF	
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
INORGANICS													
MAGNESIUM	MG/L	40.8000	J	40.2000	J							43.2000	-
MANGANESE	MG/L	0.0387	-	0.0424	-							0.4520	-
MERCURY	MG/L	0.0002	UR	0.0002	UR							0.0001	U
MOLYBDENUM	MG/L	0.0103	-	0.0100	U							0.0170	UJ
NICKEL	MG/L	0.0200	U	0.0270	-							0.0180	UJ
POTASSIUM	MG/L	0.3070	-	0.2620	-							1.2700	-
SELENIUM	MG/L	0.0020	UJ	0.0020	U							0.0050	UJ
SILICON	MG/L											9.9900	-
SILVER	MG/L	0.0197	-	0.0185	-							0.0020	U
SODIUM	MG/L	43.4000	J	42.8000	J							39.7000	-
THALLIUM	MG/L	0.0020	U	0.0020	U							0.0010	UJ
VANADIUM	MG/L	0.0161	-	0.0154	-							0.0297	-
ZINC	MG/L	0.0189	U	0.0197	U							0.0240	J
ORGANOPHOSPHORUS													
AZINPHOSMETHYL	UG/L	1.0000	UJ	1.0000	U								
DEMETON	UG/L	2.0000	UJ	2.0000	U								
DIAZINON	UG/L	1.0000	UJ	1.0000	UJ								
DISULFOTON	UG/L	0.5000	UJ	0.5000	U								
ETHION	UG/L	0.5000	UJ	0.5000	U								
MALATHION	UG/L	1.0000	UJ	1.0000	U								
METHYL PARATHION	UG/L	1.0000	UJ	1.0000	U								
PARATHION	UG/L	1.0000	UJ	1.0000	U								
PESTICIDES													
4,4'-DDD	UG/L	0.1000	U	0.1000	U								
4,4'-DDE	UG/L	0.1000	U	0.1000	U								
4,4'-DDT	UG/L	0.1000	U	0.1000	U								
ALDRIN	UG/L	0.0500	U	0.0500	U								
ALPHA-BHC	UG/L	0.1000	UR	0.0500	U								
ALPHA-CHLORDANE	UG/L	0.5000	U	0.5000	U								
AROCLOR-1016	UG/L	1.0000	UR	0.5000	U								
AROCLOR-1221	UG/L	0.5000	U	0.5000	U								
AROCLOR-1232	UG/L	1.0000	UR	0.5000	U								
AROCLOR-1242	UG/L	0.5000	U	0.5000	U								
AROCLOR-1248	UG/L	1.0000	UR	0.5000	U								
AROCLOR-1254	UG/L	1.0000	U	1.0000	U								
AROCLOR-1260	UG/L	2.0000	UR	1.0000	U								
BETA-BHC	UG/L	0.1000	UR	0.0500	U								
DELTA-BHC	UG/L	0.1000	UR	0.0500	U								
DIELDRIN	UG/L	0.2000	UR	0.1000	U								
ENDOSULFAN II	UG/L	0.2000	UR	0.1000	U								
ENDOSULFAN SULFATE	UG/L	0.2000	UR	0.1000	U								

001705

SAMPLE NUMBER:		046934			046935			046936			046970			118737		
LAB:		IT			IT											
SUFFIX/FILTERFLAG:		DL-UNF			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDOSULFAN-I	UG/L	0.0500		U	0.0500		U									
ENDRIN	UG/L	0.1000		U	0.1000		U									
ENDRIN KETONE	UG/L	0.1000		U	0.1000		U									
GAMMA-BHC (LINDANE)	UG/L	0.0500		U	0.0500		U									
GAMMA-CHLORDANE	UG/L	1.0000		UR	0.5000		U									
HEPTACHLOR	UG/L	0.0500		U	0.0500		U									
HEPTACHLOR EPOXIDE	UG/L	0.0500		U	0.0500		U									
METHOXYCHLOR	UG/L	0.5000		U	0.5000		U									
TOXAPHENE	UG/L	2.0000		UR	1.0000		U									
RADIONUCLIDES																
URANIUM, TOTAL	UG/L										191.0000	24	-			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000		U									
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U									
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U									
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000		U									
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000		U									
2,4-DIMETHYLPHENOL	UG/L	10.0000		U	10.0000		U									
2,4-DINITROPHENOL	UG/L	50.0000		U	50.0000		U									
2,4-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U									
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U									
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		U									
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000		U									
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		U									
2-METHYLPHENOL	UG/L	10.0000		U	10.0000		U									
2-NITROANILINE	UG/L	50.0000		U	50.0000		U									
2-NITROPHENOL	UG/L	10.0000		U	10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ	20.0000		UJ									
3-NITROANILINE	UG/L	50.0000		UJ	50.0000		UJ									
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U	50.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000		U									
4-METHYLPHENOL	UG/L	10.0000		U	10.0000		U									
4-NITROANILINE	UG/L	50.0000		U	50.0000		U									
4-NITROPHENOL	UG/L	50.0000		UJ	50.0000		U									
ACENAPHTHENE	UG/L	10.0000		U	10.0000		U									
ACENAPHTHYLENE	UG/L	10.0000		U	10.0000		U									
ANTHRACENE	UG/L	10.0000		U	10.0000		U									

SAMPLE NUMBER:		046934		046935		046936			046970			118737		
LAB:		IT		IT										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(A)ANTHRACENE	UG/L	10.0000		U	10.0000		U									
BENZO(A)PYRENE	UG/L	10.0000		U	10.0000		U									
BENZO(B)FLUORANTHENE	UG/L	10.0000		U	10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U	10.0000		U									
BENZO(K)FLUORANTHENE	UG/L	10.0000		U	10.0000		U									
BENZOIC ACID	UG/L	50.0000		U	50.0000		U									
BENZYL ALCOHOL	UG/L	10.0000		U	10.0000		UJ									
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U	10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U	10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U	10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U	10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
CHRYSENE	UG/L	10.0000		U	10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U	10.0000		U									
DIBENZOFURAN	UG/L	10.0000		U	10.0000		U									
DIETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
DIMETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U									
FLUORANTHENE	UG/L	10.0000		U	10.0000		U									
FLUORENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROBENZENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROBUTADIENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U	10.0000		U									
HEXACHLOROETHANE	UG/L	10.0000		U	10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U	10.0000		U									
ISOPHORONE	UG/L	10.0000		U	10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U	10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U	10.0000		U									
NAPHTHALENE	UG/L	10.0000		U	10.0000		U									
NITROBENZENE	UG/L	10.0000		U	10.0000		U									
P-CHLOROANILINE	UG/L	10.0000		UJ	10.0000		UJ									
PENTACHLOROPHENOL	UG/L	50.0000		U	50.0000		U									
PHENANTHRENE	UG/L	10.0000		U	10.0000		U									
PHENOL	MG/L	10.0000		U	10.0000		U									
PYRENE	UG/L	10.0000		U	10.0000		U									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U	5.0000		U							10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		UJ	5.0000		UJ							10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U	5.0000		U							10.0000		U
1,1-DICHLOROETHANE	UG/L	1.0000		J	1.0000		J							10.0000		U
1,1-DICHLOROETHENE	UG/L	5.0000		U	5.0000		U							10.0000		U
1,2-DICHLOROETHANE	UG/L	5.0000		U	5.0000		U							10.0000		U

SAMPLE NUMBER:		046934		046935		046936			046970			118737	
LAB:		IT		IT								TCT	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		-			-			NONE-UNF	
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
VOLATILES													
1,2-DICHLOROETHENE (TOTAL)	UG/L	43.0000	-	45.0000	-							23.0000	-
1,2-DICHLOROPROPANE	UG/L	5.0000	U	5.0000	U							10.0000	U
2-BUTANONE	UG/L	10.0000	UR	10.0000	UR							10.0000	UJ
2-HEXANONE	UG/L	10.0000	UJ	10.0000	UJ							10.0000	UJ
4-METHYL-2-PENTANONE	UG/L	10.0000	UJ	10.0000	UJ							10.0000	UJ
ACETONE	UG/L	10.0000	UJ	5.0000	J							10.0000	UJ
BENZENE	UG/L	5.0000	U	5.0000	U							10.0000	U
BROMODICHLOROMETHANE	UG/L	5.0000	U	5.0000	U							10.0000	U
BROMOFORM	UG/L	5.0000	U	5.0000	U							10.0000	UJ
BROMOMETHANE	UG/L	10.0000	U	10.0000	U							10.0000	U
CARBON DISULFIDE	UG/L	5.0000	U	5.0000	U							10.0000	U
CARBON TETRACHLORIDE	UG/L	5.0000	U	5.0000	U							10.0000	U
CHLOROBENZENE	UG/L	5.0000	U	5.0000	U							10.0000	U
CHLOROETHANE	UG/L	10.0000	U	10.0000	U							10.0000	U
CHLOROFORM	UG/L	5.0000	U	5.0000	U							10.0000	U
CHLOROMETHANE	UG/L	10.0000	U	10.0000	U							10.0000	UJ
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U	5.0000	U							10.0000	U
DIBROMOCHLOROMETHANE	UG/L	5.0000	U	5.0000	U							10.0000	U
ETHYLBENZENE	UG/L	5.0000	U	5.0000	U							10.0000	U
METHYLENE CHLORIDE	UG/L	13.0000	U	15.0000	U							10.0000	UJ
STYRENE	UG/L	5.0000	U	5.0000	U							10.0000	U
TETRACHLOROETHENE	UG/L	8.0000	-	8.0000	-							39.0000	-
TOLUENE	UG/L	5.0000	U	5.0000	U							10.0000	U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U	5.0000	U							10.0000	U
TRICHLOROETHENE	UG/L	6.0000	-	6.0000	-							13.0000	-
VINYL ACETATE	UG/L	10.0000	UJ	10.0000	UJ							10.0000	U
VINYL CHLORIDE	UG/L	10.0000	U	10.0000	U							10.0000	UJ
XYLENES, TOTAL	UG/L	5.0000	U	5.0000	U							10.0000	U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118737F			118740			118740F			118741F			046759		
TASK:	50.03.23			50.03.23			50.03.23			50.03.23			3.7		
LAB:	TCT			FERMCO			FERMCO			CORE			IT		
WELL OR BORING NUMBER:	1442			1442			1442			1442			1443		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	08-JUL-93			08-JUL-93			08-JUL-93			08-JUL-93			21-MAY-90		
NORTH COORDINATE:	480085.14			480085.14			480085.14			480085.14			480123.12		
EAST COORDINATE:	1383110.69			1383110.69			1383110.69			1383110.69			1383232.48		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-UNF			NONE-FIL			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L													0.1000		J
INORGANICS																
ALUMINUM	MG/L	0.0829		U												
ANTIMONY	MG/L	0.0140		U												
ARSENIC	MG/L	0.0020		-												
BARIUM	MG/L	0.0481		-												
BERYLLIUM	MG/L	0.0050		UR												
CADMIUM	MG/L	0.0050		U												
CALCIUM	MG/L	96.6000		-												
CHROMIUM	MG/L	0.0060		UJ												
COBALT	MG/L	0.0170		U												
COPPER	MG/L	0.0090		U												
CYANIDE	MG/L	0.0050		U												
IRON	MG/L	0.0220		U												
LEAD	MG/L	0.0010		U												
MAGNESIUM	MG/L	34.6000		-												
MANGANESE	MG/L	0.1720		-												
MERCURY	MG/L	0.0001		U												
MOLYBDENUM	MG/L	0.0170		UJ												
NICKEL	MG/L	0.0180		UJ												
POTASSIUM	MG/L	0.3800		-												
SELENIUM	MG/L	0.0050		UJ												
SILICON	MG/L	5.4500		-												
SILVER	MG/L	0.0020		U												
SODIUM	MG/L	38.8000		-												
THALLIUM	MG/L	0.0010		UJ												
VANADIUM	MG/L	0.0271		-												
ZINC	MG/L	0.0170		-												

001709

SAMPLE NUMBER:	118737F	118740	118740F	118741F	046759
LAB:	TCT				
SUFFIX/FILTERFLAG:	NONE-FIL	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L										44.9000	4.9	J			
URANIUM, TOTAL	UG/L				120.0000		NV	120.0000		NV	115.0000	8.1	-			
URANIUM-234	PCI/L										50.8000	5.5	J			
THORIUM-230	PCI/L										0.3000	.2	UJ			
RADIUM-226	PCI/L										1.0000	.3	UJ			
URANIUM-235/236	PCI/L										3.1000	.8	J			
THORIUM-232	PCI/L										0.2000	.1	UJ			
RADIUM-228	PCI/L										3.0000	.8	UJ			
THORIUM-228	PCI/L										0.2000	.2	UJ			
TECHNETIUM-99	PCI/L										605.0000	38.9	J			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046760	046762	046763	118381	118382
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	FERMCO	FERMCO
WELL OR BORING NUMBER:	1443	1443	1443	1443	1443
DEPTH:	-	-	-	-	-
DATE COLLECTED:	05-JUN-90	17-JUL-90	18-JUL-90	26-MAY-93	26-MAY-93
NORTH COORDINATE:	480123.12	480123.12	480123.12	480123.12	480123.12
EAST COORDINATE:	1383232.48	1383232.48	1383232.48	1383232.48	1383232.48
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.6200		J									
INORGANICS																
ALUMINUM	MG/L	1.0100		-												
ANTIMONY	MG/L	0.0300		U												
ARSENIC	MG/L	0.0020		U												
BARIUM	MG/L	0.0931		-												
BERYLLIUM	MG/L	0.0020		U												
CADMIUM	MG/L	0.0086		J												
CALCIUM	MG/L	103.0000		-												
CHROMIUM	MG/L	0.0394		J												
COBALT	MG/L	0.0100		U												
COPPER	MG/L	0.0150		-												
CYANIDE	MG/L	0.0020		UJ												
IRON	MG/L	1.5000		-												
LEAD	MG/L	0.0020		U												
MAGNESIUM	MG/L	52.7000		-												
MANGANESE	MG/L	0.5500		-												
MERCURY	MG/L	0.0002		UR												
MOLYBDENUM	MG/L	0.0118		-												
NICKEL	MG/L	0.0338		-												
POTASSIUM	MG/L	1.4300		-												
SELENIUM	MG/L	0.0020		UJ												
SILVER	MG/L	0.0185		-												
SODIUM	MG/L	11.3000		-												
THALLIUM	MG/L	0.0020		U												
VANADIUM	MG/L	0.0202		-												
ZINC	MG/L	0.0217		U												

001711

PESTICIDES

4,4'-DDD	UG/L	0.1000	U

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046760	046762	046763	118381	118382
LAB:	IT				
SUFFIX/FILTERFLAG:	NONE-UNF	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDE	UG/L	0.1000		U												
4,4'-DDT	UG/L	0.1000		U												
ALDRIN	UG/L	0.0500		U												
ALPHA-BHC	UG/L	0.0500		U												
ALPHA-CHLORDANE	UG/L	0.5000		U												
AROCLOR-1016	UG/L	0.5000		U												
AROCLOR-1221	UG/L	0.5000		U												
AROCLOR-1232	UG/L	0.5000		U												
AROCLOR-1242	UG/L	0.5000		U												
AROCLOR-1248	UG/L	0.5000		U												
AROCLOR-1254	UG/L	1.0000		U												
AROCLOR-1260	UG/L	1.0000		U												
BETA-BHC	UG/L	0.0500		U												
DELTA-BHC	UG/L	0.0500		U												
DIELDRIN	UG/L	0.1000		U												
ENDOSULFAN II	UG/L	0.1000		U												
ENDOSULFAN SULFATE	UG/L	0.1000		U												
ENDOSULFAN-I	UG/L	0.0500		U												
ENDRIN	UG/L	0.1000		U												
ENDRIN KETONE	UG/L	0.1000		U												
GAMMA-BHC (LINDANE)	UG/L	0.0500		U												
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U												
HEPTACHLOR EPOXIDE	UG/L	0.0500		U												
METHOXYCHLOR	UG/L	0.5000		U												
TOXAPHENE	UG/L	1.0000		U												
RADIONUCLIDES																
URANIUM, TOTAL	UG/L							15.2000	2.2	-	13.0000		NV	6.8000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		UJ												

SAMPLE NUMBER:		046760			046762			046763			118381			118382		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DINITROPHENOL	UG/L	50.0000		UJ												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		UJ												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ												
3-NITROANILINE	UG/L	50.0000		U												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		UJ												
4-NITROANILINE	UG/L	50.0000		U												
4-NITROPHENOL	UG/L	50.0000		UJ												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		UJ												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		UJ												
BENZYL ALCOHOL	UG/L	10.0000		UJ												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		UJ												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UJ												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U												
CHRYSENE	UG/L	10.0000		U												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												
DIMETHYL PHTHALATE	UG/L	10.0000		U												
FLUORANTHENE	UG/L	10.0000		U												
FLUORENE	UG/L	10.0000		U												
HEXACHLOROBENZENE	UG/L	10.0000		U												
HEXACHLOROBUTADIENE	UG/L	10.0000		U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U												

SAMPLE NUMBER:	046760			046762			046763			118381			118382		
LAB:	IT														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRICHLOROETHENE	UG/L	5.0000		U												
VINYL ACETATE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	5.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118383	118384	118385	118386	046753
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	3.7
LAB:	DATACHEM	DATACHEM	CORE	CORE	IT
WELL OR BORING NUMBER:	1443	1443	1443	1443	1444
DEPTH:	-	-	-	-	-
DATE COLLECTED:	26-MAY-93	26-MAY-93	27-MAY-93	26-MAY-93	08-MAY-90
NORTH COORDINATE:	480123.12	480123.12	480123.12	480123.12	480070.16
EAST COORDINATE:	1383232.48	1383232.48	1383232.48	1383232.48	1383192.35
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	370.0000		-												
AMMONIA	MG/L	0.0500		U												
CHLORIDE	MG/L	12.0000		-												
FLUORIDE	MG/L	0.4000		-												
NITRATE	MG/L													22.1000		J
NITRATE/NITRITE	MG/L	3.3000		-												
PHENOLS	MG/L	0.0020		UJ												
PHOSPHORUS	MG/L	5.6000		-												
SULFATE	MG/L	78.0000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	2.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0300		-												
INORGANICS																
ALUMINUM	MG/L	35.3000		J	3.4800		J									
ANTIMONY	MG/L	0.0450		U	0.0450		UJ									
ARSENIC	MG/L	0.0035		J	0.0010		UJ									
BARIUM	MG/L	0.3370		J	0.1590		J									
BERYLLIUM	MG/L	0.0018		-	0.0010		UJ									
CADMIUM	MG/L	0.0030		U	0.0030		UJ									
CALCIUM	MG/L	422.0000		-	195.0000		J									
CHROMIUM	MG/L	0.0541		-	0.0077		J									
COBALT	MG/L	0.0402		-	0.0060		UJ									
COPPER	MG/L	0.0654		-	0.0072		J									
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L	70.8000		-	6.9200		J									
LEAD	MG/L	0.0409		J	0.0022		J									
MAGNESIUM	MG/L	157.0000		-	61.0000		J									
MANGANESE	MG/L	3.2600		-	0.8000		J									

001715

SAMPLE NUMBER:		118383		118384		118385			118386			046753		
LAB:		DATACHEM		DATACHEM										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U	0.0002		UJ									
NICKEL	MG/L	0.0749		-	0.0190		UJ									
POTASSIUM	MG/L	8.3400		-	2.6400		J									
SELENIUM	MG/L	0.0020		UJ	0.0020		UJ									
SILVER	MG/L	0.0030		UJ	0.0030		UJ									
SODIUM	MG/L	9.7100		-	9.1600		J									
THALLIUM	MG/L	0.0010		U	0.0010		UJ									
VANADIUM	MG/L	0.0669		-	0.0073		J									
ZINC	MG/L	0.1650		-	0.0153		J									
RADIONUCLIDES																
URANIUM-238	PCI/L							3.2000	.5	J	2.5000	.5	J			
URANIUM, TOTAL	UG/L							8.0000	.6	-	8.2000	.6	-			
URANIUM-234	PCI/L							3.0000	.5	J	2.4000	.5	J			
THORIUM-230	PCI/L							0.6000	.4	R	0.2000	.2	UJ			
RADIUM-226	PCI/L							2.7000	.8	-	1.2000	.6	-			
URANIUM-235/236	PCI/L							0.3000	.2	J	0.3000	.2	J			
THORIUM-232	PCI/L							0.7000	.3	R	0.2000	.2	UJ			
RADIUM-228	PCI/L							3.0000	1.8	U	3.0000	1.4	U			
THORIUM-228	PCI/L							0.6000	.3	R	0.3000	.2	UJ			
TECHNETIUM-99	PCI/L							239.0000	18	J	223.0000	16.8	J			
GROSS ALPHA	PCI/L							69.5000	18.7	NV	8.6000	3.7	NV			
GROSS BETA	PCI/L							246.0000	25.1	NV	189.0000	8.8	NV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		U												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		U												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												
CARBON TETRACHLORIDE	UG/L	10.0000		U												

SAMPLE NUMBER:		118383		118384		118385		118386		046753	
LAB:		DATACHEM									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
CHLOROBENZENE	UG/L	10.0000	U								
CHLOROETHANE	UG/L	10.0000	U								
CHLOROFORM	UG/L	10.0000	U								
CHLOROMETHANE	UG/L	10.0000	UJ								
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000	U								
DIBROMOCHLOROMETHANE	UG/L	10.0000	U								
ETHYLBENZENE	UG/L	10.0000	U								
METHYLENE CHLORIDE	UG/L	10.0000	U								
STYRENE	UG/L	10.0000	U								
TETRACHLOROETHENE	UG/L	10.0000	U								
TOLUENE	UG/L	10.0000	U								
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000	U								
TRICHLOROETHENE	UG/L	10.0000	U								
VINYL ACETATE	UG/L	10.0000	U								
VINYL CHLORIDE	UG/L	10.0000	U								
XYLENES, TOTAL	UG/L	10.0000	U								

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		046754			046755			046756			118389			118390		
TASK:		3.7			3.7			3.7			50.03.23			50.03.23		
LAB:		IT			IT			IT			FERMCO			FERMCO		
WELL OR BORING NUMBER:		1444			1444			1444			1444			1444		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		17-MAY-90			17-JUL-90			17-JUL-90			26-MAY-93			26-MAY-93		
NORTH COORDINATE:		480070.16			480070.16			480070.16			480070.16			480070.16		
EAST COORDINATE:		1383192.35			1383192.35			1383192.35			1383192.35			1383192.35		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L							18.1000		J						
INORGANICS																
ALUMINUM	MG/L	0.0941		-												
ANTIMONY	MG/L	0.0300		U												
ARSENIC	MG/L	0.0020		U												
BARIUM	MG/L	0.0898		-												
BERYLLIUM	MG/L	0.0020		U												
CADMIUM	MG/L	0.0087		-												
CALCIUM	MG/L	119.0000		J												
CHROMIUM	MG/L	0.0365		-												
COBALT	MG/L	0.0100		U												
COPPER	MG/L	0.0105		-												
CYANIDE	MG/L	0.0020		U												
IRON	MG/L	0.0642		U												
LEAD	MG/L	0.0020		UJ												
MAGNESIUM	MG/L	59.9000		J												
MANGANESE	MG/L	0.0095		-												
MERCURY	MG/L	0.0002		UR												
MOLYBDENUM	MG/L	0.0100		U												
NICKEL	MG/L	0.0217		-												
POTASSIUM	MG/L	1.3000		-												
SELENIUM	MG/L	0.0020		U												
SILVER	MG/L	0.0197		-												
SODIUM	MG/L	66.0000		J												
THALLIUM	MG/L	0.0020		U												
VANADIUM	MG/L	0.0161		-												
ZINC	MG/L	0.0221		U												

SAMPLE NUMBER:		046754		046755		046756		118389		118390	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
2,4-DINITROPHENOL	UG/L	50.0000	U								
2,4-DINITROTOLUENE	UG/L	10.0000	U								
2,6-DINITROTOLUENE	UG/L	10.0000	U								
2-CHLORONAPHTHALENE	UG/L	10.0000	U								
2-CHLOROPHENOL	UG/L	10.0000	U								
2-METHYLNAPHTHALENE	UG/L	10.0000	U								
2-METHYLPHENOL	UG/L	10.0000	U								
2-NITROANILINE	UG/L	50.0000	U								
2-NITROPHENOL	UG/L	10.0000	U								
3,3'-DICHLOROBENZIDINE	UG/L	20.0000	UJ								
3-NITROANILINE	UG/L	50.0000	UJ								
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000	U								
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000	U								
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000	U								
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000	U								
4-METHYLPHENOL	UG/L	10.0000	U								
4-NITROANILINE	UG/L	50.0000	U								
4-NITROPHENOL	UG/L	50.0000	U								
ACENAPHTHENE	UG/L	10.0000	U								
ACENAPHTHYLENE	UG/L	10.0000	U								
ANTHRACENE	UG/L	10.0000	U								
BENZO(A)ANTHRACENE	UG/L	10.0000	U								
BENZO(A)PYRENE	UG/L	10.0000	U								
BENZO(B)FLUORANTHENE	UG/L	10.0000	U								
BENZO(G,H,I)PERYLENE	UG/L	10.0000	U								
BENZO(K)FLUORANTHENE	UG/L	10.0000	U								
BENZOIC ACID	UG/L	50.0000	U								
BENZYL ALCOHOL	UG/L	10.0000	U								
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000	U								
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	U								
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	U								
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000	U								
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U								
CHRYSENE	UG/L	10.0000	U								
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U								
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U								
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U								
DIBENZOFURAN	UG/L	10.0000	U								
DIETHYL PHTHALATE	UG/L	10.0000	U								
DIMETHYL PHTHALATE	UG/L	10.0000	U								
FLUORANTHENE	UG/L	10.0000	U								
FLUORENE	UG/L	10.0000	U								
HEXACHLOROBENZENE	UG/L	10.0000	U								
HEXACHLOROBUTADIENE	UG/L	10.0000	U								
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U								

SAMPLE NUMBER:		046754		046755		046756		118389		118390	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
HEXACHLOROETHANE	UG/L	10.0000	U								
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U								
ISOPHORONE	UG/L	10.0000	U								
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U								
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U								
NAPHTHALENE	UG/L	10.0000	U								
NITROBENZENE	UG/L	10.0000	U								
P-CHLOROANILINE	UG/L	10.0000	UJ								
PENTACHLOROPHENOL	UG/L	50.0000	U								
PHENANTHRENE	UG/L	10.0000	U								
PHENOL	MG/L	10.0000	U								
PYRENE	UG/L	10.0000	U								
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L	5.0000	UJ								
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U								
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U								
1,1-DICHLOROETHANE	UG/L	4.0000	J								
1,1-DICHLOROETHENE	UG/L	5.0000	U								
1,2-DICHLOROETHANE	UG/L	5.0000	U								
1,2-DICHLOROETHENE (TOTAL)	UG/L	92.0000	-								
1,2-DICHLOROPROPANE	UG/L	5.0000	U								
2-BUTANONE	UG/L	10.0000	UJ								
2-HEXANONE	UG/L	10.0000	U								
4-METHYL-2-PENTANONE	UG/L	2.0000	J								
ACETONE	UG/L	10.0000	U								
BENZENE	UG/L	5.0000	UJ								
BROMODICHLOROMETHANE	UG/L	5.0000	U								
BROMOFORM	UG/L	5.0000	U								
BROMOMETHANE	UG/L	10.0000	UJ								
CARBON DISULFIDE	UG/L	2.0000	J								
CARBON TETRACHLORIDE	UG/L	5.0000	U								
CHLOROBENZENE	UG/L	5.0000	UJ								
CHLOROETHANE	UG/L	10.0000	U								
CHLOROFORM	UG/L	5.0000	U								
CHLOROMETHANE	UG/L	10.0000	U								
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U								
DIBROMOCHLOROMETHANE	UG/L	5.0000	U								
ETHYLBENZENE	UG/L	5.0000	UJ								
METHYLENE CHLORIDE	UG/L	6.0000	U								
STYRENE	UG/L	5.0000	UJ								
TETRACHLOROETHENE	UG/L	2.0000	J								
TOLUENE	UG/L	5.0000	UJ								
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U								

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118391	118392	118394	118401	046782
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	3.7
LAB:	DATACHEM	DATACHEM	CORE	CORE	IT
WELL OR BORING NUMBER:	1444	1444	1444	1444	1447
DEPTH:	-	-	-	-	-
DATE COLLECTED:	26-MAY-93	26-MAY-93	26-MAY-93	27-MAY-93	17-JUL-90
NORTH COORDINATE:	480070.16	480070.16	480070.16	480070.16	479991.53
EAST COORDINATE:	1383192.35	1383192.35	1383192.35	1383192.35	1383019.18
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	340.0000		-												
AMMONIA	MG/L	0.0500		U												
CHLORIDE	MG/L	61.0000		-												
FLUORIDE	MG/L	0.4000		-												
NITRATE/NITRITE	MG/L	22.0000		-												
PHENOLS	MG/L	0.0020		UJ												
PHOSPHORUS	MG/L	0.1400		-												
SULFATE	MG/L	150.0000		-												
SULFIDE	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	2.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0400		-												
INORGANICS																
ALUMINUM	MG/L	0.4060		U	0.0140		U									
ANTIMONY	MG/L	0.0450		U	0.0450		U									
ARSENIC	MG/L	0.0010		U	0.0010		U									
BARIUM	MG/L	0.0920		-	0.0865		-									
BERYLLIUM	MG/L	0.0010		U	0.0010		U									
CADMIUM	MG/L	0.0030		U	0.0030		U									
CALCIUM	MG/L	124.0000		-	122.0000		-									
CHROMIUM	MG/L	0.0046		-	0.0048		-									
COBALT	MG/L	0.0060		U	0.0060		U									
COPPER	MG/L	0.0040		U	0.0040		U									
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L	0.8850		-	0.0194		U									
LEAD	MG/L	0.0010		U	0.0011		J									
MAGNESIUM	MG/L	61.3000		-	60.4000		-									
MANGANESE	MG/L	0.0215		-	0.0010		U									
MERCURY	MG/L	0.0002		U	0.0002		U									

SAMPLE NUMBER:	118391			118392			118394			118401			046782		
LAB:	DATACHEM														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	2.0000		J												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	6.0000		J												
VINYL ACETATE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046784	046786	046787	118373	118374
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	FERMCO	FERMCO
WELL OR BORING NUMBER:	1447	1447	1447	1447	1447
DEPTH:	-	-	-	-	-
DATE COLLECTED:	01-JUN-90	05-JUN-90	17-JUL-90	26-MAY-93	26-MAY-93
NORTH COORDINATE:	479991.53	479991.53	479991.53	479991.53	479991.53
EAST COORDINATE:	1383019.18	1383019.18	1383019.18	1383019.18	1383019.18
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBENN	NG/L				0.6500		U									
1,2,3,4,6,7,8-HEPTACHLORODIBENN	NG/L				0.2200		U									
1,2,3,4,7,8,9-HEPTACHLORODIBENN	NG/L				0.2300		U									
1,2,3,4,7,8-HEXACHLORODIBENZO-	NG/L				0.5400		U									
1,2,3,4,7,8-HEXACHLORODIBENZOF	NG/L				0.1800		U									
1,2,3,6,7,8-HEXACHLORODIBENZO-	NG/L				0.4600		U									
1,2,3,6,7,8-HEXACHLORODIBENZOF	NG/L				0.1700		U									
1,2,3,7,8,9-HEXACHLORODIBENZO-	NG/L				0.6300		U									
1,2,3,7,8,9-HEXACHLORODIBENZOF	NG/L				0.2300		U									
1,2,3,7,8-PENTACHLORODIBENZO-	PNG/L				0.7800		U									
1,2,3,7,8-PENTACHLORODIBENZOFU	NG/L				0.2800		U									
2,3,4,6,7,8-HEXACHLORODIBENZOF	NG/L				0.3300		U									
2,3,4,7,8-PENTACHLORODIBENZOFU	NG/L				0.3100		U									
2,3,7,8-TETRACHLORODIBENZO-P-	DNG/L				1.7000		U									
2,3,7,8-TETRACHLORODIBENZOFURA	NG/L				0.7000		U									
HEPTACHLORODIBENZO-P-DIOXINS	NG/L				0.6500		U									
HEPTACHLORODIBENZOFURANS	NG/L				0.7800		U									
HEXACHLORODIBENZO-P-DIOXINS	NG/L				0.7300		U									
HEXACHLORODIBENZOFURANS	NG/L				0.4000		U									
OCTACHLORODIBENZO-P-DIOXIN	NG/L				1.5000		U									
OCTACHLORODIBENZOFURAN	NG/L				0.3800		U									
PENTACHLORODIBENZO-P-DIOXINS	NG/L				0.7800		U									
PENTACHLORODIBENZOFURANS	NG/L				0.2800		U									
TETRACHLORODIBENZO-P-DIOXINS	NG/L				0.2600		U									
TETRACHLORODIBENZOFURANS	NG/L				0.6400		U									
GENERAL CHEMISTRY																
NITRATE	MG/L	11.9000		J				12.6000		J						

INORGANICS														
ALUMINUM	MG/L			0.0991	-									
06/21/94														

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1242

SAMPLE NUMBER:		046784			046786			046787			118373			118374	
LAB:					IT										
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
ANTIMONY	MG/L				0.0300		U								
ARSENIC	MG/L				0.0020		U								
BARIUM	MG/L				0.0838		-								
BERYLLIUM	MG/L				0.0020		U								
CADMIUM	MG/L				0.0048		J								
CALCIUM	MG/L				151.0000		-								
CHROMIUM	MG/L				0.0431		-								
COBALT	MG/L				0.0100		U								
COPPER	MG/L				0.0176		-								
CYANIDE	MG/L				0.0020		UJ								
IRON	MG/L				0.0482		-								
LEAD	MG/L				0.0037		-								
MAGNESIUM	MG/L				37.8000		-								
MANGANESE	MG/L				0.0129		-								
MERCURY	MG/L				0.0002		UR								
MOLYBDENUM	MG/L				0.0100		U								
NICKEL	MG/L				0.0207		-								
POTASSIUM	MG/L				1.9400		-								
SELENIUM	MG/L				0.0020		U								
SILVER	MG/L				0.0218		-								
SODIUM	MG/L				74.1000		-								
THALLIUM	MG/L				0.0020		U								
VANADIUM	MG/L				0.0187		-								
ZINC	MG/L				0.0121		U								
PESTICIDES															
4,4'-DDD	UG/L				0.2000		U								
4,4'-DDE	UG/L				0.2000		U								
4,4'-DDT	UG/L				0.2000		U								
ALDRIN	UG/L				0.1000		U								
ALPHA-BHC	UG/L				0.1000		U								
ALPHA-CHLORDANE	UG/L				1.0000		U								
AROCLOR-1016	UG/L				1.0000		U								
AROCLOR-1221	UG/L				1.0000		U								
AROCLOR-1232	UG/L				1.0000		U								
AROCLOR-1242	UG/L				1.0000		U								
AROCLOR-1248	UG/L				1.0000		U								
AROCLOR-1254	UG/L				2.0000		U								
AROCLOR-1260	UG/L				2.0000		U								
BETA-BHC	UG/L				0.1000		U								

001224

5704

SAMPLE NUMBER:		046784			046786			046787			118373			118374		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			DL-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
DELTA-BHC	UG/L				0.1000		U									
DIELDRIN	UG/L				0.2000		U									
ENDOSULFAN II	UG/L				0.2000		U									
ENDOSULFAN SULFATE	UG/L				0.2000		U									
ENDOSULFAN-I	UG/L				0.1000		U									
ENDRIN	UG/L				0.2000		U									
ENDRIN KETONE	UG/L				0.2000		U									
GAMMA-BHC (LINDANE)	UG/L				0.1000		U									
GAMMA-CHLORDANE	UG/L				1.0000		U									
HEPTACHLOR	UG/L				0.1000		U									
HEPTACHLOR EPOXIDE	UG/L				0.1000		U									
METHOXYCHLOR	UG/L				1.0000		U									
TOXAPHENE	UG/L				2.0000		U									
RADIONUCLIDES																
URANIUM, TOTAL	UG/L										260.0000		NV	280.0000		NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		UJ									
2,4-DINITROPHENOL	UG/L				50.0000		UJ									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		UJ									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UJ									
3-NITROANILINE	UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		U									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		UJ									
4-NITROANILINE	UG/L				50.0000		U									

SAMPLE NUMBER:	046784	046786	046787	118373	118374
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		046784 RESULT	SIGMA	VAL QUAL(1)	046786 RESULT	SIGMA	VAL QUAL(1)	046787 RESULT	SIGMA	VAL QUAL(1)	118373 RESULT	SIGMA	VAL QUAL(1)	118374 RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-NITROPHENOL	UG/L				50.0000		UJ									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		UJ									
BENZYL ALCOHOL	UG/L				10.0000		UJ									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		UJ									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		UJ									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		U									
PENTACHLOROPHENOL	UG/L				50.0000		U									
PHENANTHRENE	UG/L				10.0000		U									
PHENOL	MG/L				1.0000		J									
PYRENE	UG/L				10.0000		U									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U									
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U									

5704

SAMPLE NUMBER:	046784			046786		046787			118373			118374		
LAB:				IT										
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,1,2-TRICHLOROETHANE UG/L				5.0000		U									
1,1-DICHLOROETHANE UG/L				5.0000		U									
1,1-DICHLOROETHENE UG/L				5.0000		U									
1,2-DICHLOROETHANE UG/L				5.0000		U									
1,2-DICHLOROETHENE (TOTAL) UG/L				5.0000		U									
1,2-DICHLOROPROPANE UG/L				5.0000		U									
2-BUTANONE UG/L				10.0000		U									
2-HEXANONE UG/L				10.0000		U									
4-METHYL-2-PENTANONE UG/L				10.0000		U									
ACETONE UG/L				3.0000		J									
BENZENE UG/L				5.0000		U									
BROMODICHLOROMETHANE UG/L				5.0000		U									
BROMOFORM UG/L				5.0000		U									
BROMOMETHANE UG/L				10.0000		U									
CARBON DISULFIDE UG/L				2.0000		J									
CARBON TETRACHLORIDE UG/L				5.0000		U									
CHLOROBENZENE UG/L				5.0000		U									
CHLOROETHANE UG/L				10.0000		U									
CHLOROFORM UG/L				5.0000		U									
CHLOROMETHANE UG/L				10.0000		U									
CIS-1,3-DICHLOROPROPENE UG/L				5.0000		U									
DIBROMOCHLOROMETHANE UG/L				5.0000		U									
ETHYLBENZENE UG/L				5.0000		U									
METHYLENE CHLORIDE UG/L				5.0000		U									
STYRENE UG/L				5.0000		U									
TETRACHLOROETHENE UG/L				5.0000		U									
TOLUENE UG/L				5.0000		U									
TRANS-1,3-DICHLOROPROPENE UG/L				5.0000		U									
TRICHLOROETHENE UG/L				5.0000		U									
VINYL ACETATE UG/L				10.0000		U									
VINYL CHLORIDE UG/L				10.0000		U									
XYLENES, TOTAL UG/L				5.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118375			118376			118377			118378			046771		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			3.7		
LAB:		DATACHEM			DATACHEM			CORE			CORE			IT		
WELL OR BORING NUMBER:		1447			1447			1447			1447			1448		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		26-MAY-93			26-MAY-93			26-MAY-93			26-MAY-93			18-MAY-90		
NORTH COORDINATE:		479991.53			479991.53			479991.53			479991.53			479986.38		
EAST COORDINATE:		1383019.18			1383019.18			1383019.18			1383019.18			1383111.86		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	0.4500		-												
AMMONIA	MG/L	0.0500		U												
CHLORIDE	MG/L	0.0320		-												
FLUORIDE	MG/L	0.4000		-												
NITRATE	MG/L													0.1000		UR
NITRATE/NITRITE	MG/L	1.1000		-												
PHENOLS	MG/L	0.0020		UJ												
PHOSPHORUS	MG/L	0.9000		-												
SULFATE	MG/L	0.1700		-												
SULFIDE	MG/L	1.0000		U												
TOTAL ORGANIC CARBON	MG/L	4.0000		-												
TOTAL ORGANIC HALIDES	MG/L	0.0400		-												
INORGANICS																
ALUMINUM	MG/L	22.4000		J	0.0140		U									
ANTIMONY	MG/L	0.0450		U	0.0450		U									
ARSENIC	MG/L	0.0032		-	0.0010		U									
BARIUM	MG/L	0.2390		J	0.0788		-									
BERYLLIUM	MG/L	0.0014		-	0.0010		U									
CADMIUM	MG/L	0.0030		U	0.0030		U									
CALCIUM	MG/L	196.0000		-	129.0000		-									
CHROMIUM	MG/L	0.0319		-	0.0040		U									
COBALT	MG/L	0.0166		-	0.0060		U									
COPPER	MG/L	0.0375		-	0.0040		U									
CYANIDE	MG/L	0.0100		U	0.0100		U									
IRON	MG/L	40.2000		-	0.0243		U									
LEAD	MG/L	0.2420		J	0.0010		U									
MAGNESIUM	MG/L	65.4000		-	42.0000		-									
MANGANESE	MG/L	1.2400		-	0.0010		U									

SAMPLE NUMBER:		118375		118376		118377			118378			046771		
LAB:		DATACHEM		DATACHEM										
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U	0.0002		U									
NICKEL	MG/L	0.0469		-	0.0190		U									
POTASSIUM	MG/L	4.8700		-	0.8430		-									
SELENIUM	MG/L	0.0020		UJ	0.0020		U									
SILVER	MG/L	0.0030		UJ	0.0030		UJ									
SODIUM	MG/L	86.1000		-	87.5000		-									
THALLIUM	MG/L	0.0010		U	0.0010		UJ									
VANADIUM	MG/L	0.0384		-	0.0040		U									
ZINC	MG/L	0.0989		-	0.0060		U									
RADIONUCLIDES																
URANIUM-238	PCI/L							97.2000	10.4	J	101.0000	22.9	J			
URANIUM, TOTAL	UG/L							289.0000	20.2	-	273.0000	19.1	-			
URANIUM-234	PCI/L							91.0000	9.8	J	88.3000	20.4	J			
THORIUM-230	PCI/L							1.5000	.5	J	0.2000	.2	UJ			
RADIUM-226	PCI/L							2.4000	.7	-	1.2000	.4	-			
URANIUM-235/236	PCI/L							4.2000	1.4	J	3.1000	2.1	J			
THORIUM-232	PCI/L							0.4000	.3	J	0.3000	.2	U			
THORIUM, TOTAL	UG/L							3.6482	.3	NV						
RADIUM-228	PCI/L							3.5000	1.5	-	3.0000	.8	U			
THORIUM-228	PCI/L							0.7000	.4	J	0.2000	2.6	U			
TECHNETIUM-99	PCI/L							280.0000	19.8	J	339.0000	23.8	-			
GROSS ALPHA	PCI/L							179.0000	16.9	NV	147.0000	12.4	NV			
GROSS BETA	PCI/L							328.0000	14.1	NV	276.0000	9.7	NV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHANE	UG/L	10.0000		U												
1,1-DICHLOROETHENE	UG/L	10.0000		U												
1,2-DICHLOROETHANE	UG/L	10.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	2.0000		J												
1,2-DICHLOROPROPANE	UG/L	10.0000		U												
2-BUTANONE	UG/L	10.0000		U												
2-HEXANONE	UG/L	10.0000		U												
4-METHYL-2-PENTANONE	UG/L	10.0000		U												
ACETONE	UG/L	10.0000		U												
BENZENE	UG/L	10.0000		U												
BROMODICHLOROMETHANE	UG/L	10.0000		U												
BROMOFORM	UG/L	10.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	10.0000		U												

SAMPLE NUMBER:		118375		118376			118377			118378			046771		
LAB:		DATACHEM													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CARBON TETRACHLORIDE	UG/L	10.0000		U												
CHLOROBENZENE	UG/L	10.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	10.0000		U												
CHLOROMETHANE	UG/L	10.0000		UJ												
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
DIBROMOCHLOROMETHANE	UG/L	10.0000		U												
ETHYLBENZENE	UG/L	10.0000		U												
METHYLENE CHLORIDE	UG/L	10.0000		U												
STYRENE	UG/L	10.0000		U												
TETRACHLOROETHENE	UG/L	10.0000		U												
TOLUENE	UG/L	10.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U												
TRICHLOROETHENE	UG/L	10.0000		U												
VINYL ACETATE	UG/L	10.0000		U												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	10.0000		U												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046772	046773	046774	118742	118742F
TASK:	3.7	3.7	3.7	50.03.23	50.03.23
LAB:	IT	IT	IT	TCT	TCT
WELL OR BORING NUMBER:	1448	1448	1448	1448	1448
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-MAY-90	17-JUL-90	17-JUL-90	08-JUL-93	08-JUL-93
NORTH COORDINATE:	479986.38	479986.38	479986.38	479986.38	479986.38
EAST COORDINATE:	1383111.86	1383111.86	1383111.86	1383111.86	1383111.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										502.0000		-			
AMMONIA	MG/L										0.0481		-			
CHLORIDE	MG/L										26.2000		-			
FLUORIDE	MG/L										0.3100		-			
NITRATE	MG/L							0.1000		UJ	0.0200		U			
PHENOLS	MG/L										0.0050		U			
PHOSPHATE	MG/L										0.2120		R			
SULFATE	MG/L										114.0000		-			
SULFIDE	MG/L										1.0000		U			
TOTAL KJELDAHL NITROGEN	MG/L										0.1000		U			
TOTAL ORGANIC CARBON	MG/L										2.0000		UJ			
TOTAL ORGANIC HALIDES	MG/L										0.0257		J			
TOTAL ORGANIC NITROGEN	MG/L										0.1000		U			
INORGANICS																
ALUMINUM	MG/L	0.0658		-							3.2500		-	0.1160		U
ANTIMONY	MG/L	0.0300		U							0.0140		U	0.0140		U
ARSENIC	MG/L	0.0020		U							0.0056		-	0.0020		U
BARIUM	MG/L	0.0640		-							0.1070		-	0.0490		-
BERYLLIUM	MG/L	0.0020		U							0.0055		R	0.0050		UR
CADMIUM	MG/L	0.0078		-							0.0050		U	0.0050		U
CALCIUM	MG/L	100.0000		J							266.0000		-	111.0000		-
CHROMIUM	MG/L	0.0346		-							0.0060		UJ	0.0060		UJ
COBALT	MG/L	0.0100		U							0.0170		U	0.0170		U
COPPER	MG/L	0.0100		U							0.0093		U	0.0090		U
CYANIDE	MG/L	0.0020		U							0.0050		U	0.0050		U
IRON	MG/L	0.0209		U							7.5300		-	0.0220		U
LEAD	MG/L	0.0028		-							0.0097		-	0.0010		U
MAGNESIUM	MG/L	49.6000		J							88.0000		-	47.7000		-

001731

SAMPLE NUMBER:		046772		046773		046774		118742		118742F	
LAB:		IT						TCT		TCT	
SUFFIX/FILTERFLAG:		NONE-FIL		-		-		NONE-UNF		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MANGANESE	MG/L	0.1180	J					0.8150	-	0.1850	-
MERCURY	MG/L	0.0002	-					0.0001	U	0.0001	U
MOLYBDENUM	MG/L	0.0168	-					0.0170	UJ	0.0170	UJ
NICKEL	MG/L	0.0294	-					0.0180	UJ	0.0180	UJ
POTASSIUM	MG/L	2.1900	-					3.4600	-	2.3300	-
SELENIUM	MG/L	0.0020	UJ					0.0050	UJ	0.0050	UJ
SILICON	MG/L							12.1000	-	7.1100	-
SILVER	MG/L	0.0184	-					0.0020	U	0.0020	U
SODIUM	MG/L	27.3000	J					12.0000	-	12.9000	-
THALLIUM	MG/L	0.0020	U					0.0010	UJ	0.0010	UJ
VANADIUM	MG/L	0.0155	-					0.0338	-	0.0240	-
ZINC	MG/L	0.0212	U					0.0220	J	0.0300	J
ORGANOPHOSPHORUS											
AZINPHOSMETHYL	UG/L	1.0000	U								
DEMETON	UG/L	2.0000	U								
DIAZINON	UG/L	1.0000	UJ								
DISULFOTON	UG/L	0.5000	U								
ETHION	UG/L	0.5000	U								
MALATHION	UG/L	1.0000	U								
METHYL PARATHION	UG/L	1.0000	U								
PARATHION	UG/L	1.0000	U								
PESTICIDES											
4,4'-DDD	UG/L	0.1000	U								
4,4'-DDE	UG/L	0.1000	U								
4,4'-DDT	UG/L	0.1000	U								
ALDRIN	UG/L	0.0500	U								
ALPHA-BHC	UG/L	0.0500	U								
ALPHA-CHLORDANE	UG/L	0.5000	U								
AROCLOR-1016	UG/L	0.5000	U								
AROCLOR-1221	UG/L	0.5000	U								
AROCLOR-1232	UG/L	0.5000	U								
AROCLOR-1242	UG/L	0.5000	U								
AROCLOR-1248	UG/L	0.5000	U								
AROCLOR-1254	UG/L	1.0000	U								
AROCLOR-1260	UG/L	1.0000	U								
BETA-BHC	UG/L	0.0500	U								
DELTA-BHC	UG/L	0.0500	U								
DIELDRIN	UG/L	0.1000	U								
ENDOSULFAN II	UG/L	0.1000	U								
ENDOSULFAN SULFATE	UG/L	0.1000	U								
ENDOSULFAN-I	UG/L	0.0500	U								

001732

5704

SAMPLE NUMBER:		046772			046773			046774			118742			118742F		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDRIN	UG/L	0.1000		U												
ENDRIN KETONE	UG/L	0.1000		U												
GAMMA-BHC (LINDANE)	UG/L	0.0500		U												
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U												
HEPTACHLOR EPOXIDE	UG/L	0.0500		U												
METHOXYCHLOR	UG/L	0.5000		U												
TOXAPHENE	UG/L	1.0000		U												
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				12.8000	2	-									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		U												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ												
3-NITROANILINE	UG/L	50.0000		UJ												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		U												
4-NITROPHENOL	UG/L	50.0000		U												
ACENAPHTHENE	UG/L	10.0000		U												
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												

SAMPLE NUMBER:		046772		046773		046774			118742			118742F		
LAB:		IT							TCT					
SUFFIX/FILTERFLAG:		NONE-UNF		-		-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROPROPANE	UG/L	5.0000		U							10.0000		U			
2-BUTANONE	UG/L	17.0000		J							10.0000		UJ			
2-HEXANONE	UG/L	10.0000		UJ							10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L	10.0000		U							10.0000		UJ			
ACETONE	UG/L	20.0000		UJ							10.0000		UJ			
BENZENE	UG/L	5.0000		UJ							10.0000		U			
BROMODICHLOROMETHANE	UG/L	5.0000		U							10.0000		U			
BROMOFORM	UG/L	5.0000		U							10.0000		UJ			
BROMOMETHANE	UG/L	10.0000		U							10.0000		U			
CARBON DISULFIDE	UG/L	2.0000		J							10.0000		U			
CARBON TETRACHLORIDE	UG/L	5.0000		U							10.0000		U			
CHLOROBENZENE	UG/L	5.0000		UJ							10.0000		U			
CHLOROETHANE	UG/L	10.0000		U							10.0000		U			
CHLOROFORM	UG/L	5.0000		U							10.0000		U			
CHLOROMETHANE	UG/L	10.0000		U							10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U							10.0000		U			
DIBROMOCHLOROMETHANE	UG/L	5.0000		U							10.0000		U			
ETHYLBENZENE	UG/L	5.0000		UJ							10.0000		U			
METHYLENE CHLORIDE	UG/L	5.0000		U							10.0000		U			
STYRENE	UG/L	5.0000		UJ							10.0000		U			
TETRACHLOROETHENE	UG/L	5.0000		U							10.0000		U			
TOLUENE	UG/L	5.0000		UJ							10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U							10.0000		U			
TRICHLOROETHENE	UG/L	5.0000		U							10.0000		U			
VINYL ACETATE	UG/L	10.0000		UJ							10.0000		UJ			
VINYL CHLORIDE	UG/L	10.0000		U							10.0000		U			
XYLENES, TOTAL	UG/L	5.0000		UJ												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118745	118745F	118746	118746F	046863
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	3.7
LAB:	FERMCO	FERMCO	CORE	CORE	IT
WELL OR BORING NUMBER:	1448	1448	1448	1448	1508
DEPTH:	-	-	-	-	-
DATE COLLECTED:	08-JUL-93	08-JUL-93	08-JUL-93	08-JUL-93	02-MAY-90
NORTH COORDINATE:	479986.38	479986.38	479986.38	479986.38	482565.57
EAST COORDINATE:	1383111.86	1383111.86	1383111.86	1383111.86	1380840.06
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L							2.0000	.8	J	1.6000	1.1	R	15.2000	2.2	-
URANIUM, TOTAL	UG/L	5.0000		NV	4.2000		NV	5.6000	.4	-	3.9000	.3	-	53.9000	8.4	J
URANIUM-234	PCI/L							3.0000	.6	J	1.7000	.4	R	15.7000	2.2	-
THORIUM-230	PCI/L							1.2000	.3	J	0.2000	.2	UJ	3.4400	.96	-
RADIUM-226	PCI/L							2.1000	.6	J	1.2000	.5	U	3.3700	.57	NV
URANIUM-235/236	PCI/L							0.2000	.1	UJ	0.1000	.1	R	1.2000	.39	-
THORIUM-232	PCI/L							0.9000	.3	J	0.2000	.5	UJ	2.8400	.85	-
THORIUM, TOTAL	UG/L							8.2082	.3	NV				25.6000	7.7	-
RADIUM-228	PCI/L							3.0000	1.3	U	3.0000	1	U	3.0000		UJ
THORIUM-228	PCI/L							0.8000	.3	J	0.2000	.5	UJ	3.4000	.95	-
NEPTUNIUM-237	PCI/L													1.0000		U
PLUTONIUM-239/240	PCI/L													1.0000		UJ
PLUTONIUM-238	PCI/L													1.0000		UJ
STRONTIUM-90	PCI/L													5.0000		U
TECHNETIUM-99	PCI/L							15.0000	7.8	U	15.4000	9.2	U	30.0000		U
RUTHENIUM-106	PCI/L													150.0000		UJ
CESIUM-137	PCI/L													20.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046864	046865	046866	046867	046874
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1508	1508	1508	1508	1510
DEPTH:	-	-	-	-	-
DATE COLLECTED:	02-MAY-90	02-MAY-90	04-JUN-90	04-JUN-90	03-MAY-90
NORTH COORDINATE:	482565.57	482565.57	482565.57	482565.57	482519.62
EAST COORDINATE:	1380840.06	1380840.06	1380840.06	1380840.06	1380877.9
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U				0.1000		UR				0.1000		U
INORGANICS																
ALUMINUM	MG/L				0.0917		-									
ANTIMONY	MG/L				0.0300		U									
ARSENIC	MG/L				0.0022		-									
BARIUM	MG/L				0.0771		-									
BERYLLIUM	MG/L				0.0020		U									
CADMIUM	MG/L				0.0033		-									
CALCIUM	MG/L				105.0000		-									
CHROMIUM	MG/L				0.0252		-									
COBALT	MG/L				0.0100		U									
COPPER	MG/L				0.0100		U									
CYANIDE	MG/L				0.0100		U									
IRON	MG/L				0.0592		-									
LEAD	MG/L				0.0053		J									
MAGNESIUM	MG/L				30.5000		-									
MANGANESE	MG/L				1.4700		-									
MERCURY	MG/L				0.0002		UJ									
MOLYBDENUM	MG/L				0.0100		U									
NICKEL	MG/L				0.0200		U									
POTASSIUM	MG/L				1.0300		-									
SELENIUM	MG/L				0.0020		UJ									
SILVER	MG/L				0.0179		-									
SODIUM	MG/L				19.5000		-									
THALLIUM	MG/L				0.0020		UR									
VANADIUM	MG/L				0.0143		-									
ZINC	MG/L				0.0179		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

ORGANOPHOSPHORUS																	
AZINPHOSMETHYL 06/21/94	UG/L			2.5000	U												
SAMPLE NUMBER:		046864			046865			046866			046867			046874			
LAB:					IT												
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																	
DEMETON	UG/L				2.0000		U										
DIAZINON	UG/L				1.0000		U										
DISULFOTON	UG/L				1.0000		U										
ETHION	UG/L				1.0000		U										
MALATHION	UG/L				1.0000		U										
METHYL PARATHION	UG/L				1.0000		U										
PARATHION	UG/L				1.0000		U										
PESTICIDES																	
4,4'-DDD	UG/L				0.2000		U										
4,4'-DDE	UG/L				0.2000		U										
4,4'-DDT	UG/L				0.2000		U										
ALDRIN	UG/L				0.1000		U										
ALPHA-BHC	UG/L				0.1000		U										
ALPHA-CHLORDANE	UG/L				1.0000		U										
AROCLOR-1016	UG/L				1.0000		U										
AROCLOR-1221	UG/L				1.0000		U										
AROCLOR-1232	UG/L				1.0000		U										
AROCLOR-1242	UG/L				1.0000		U										
AROCLOR-1248	UG/L				1.0000		U										
AROCLOR-1254	UG/L				2.0000		U										
AROCLOR-1260	UG/L				2.0000		U										
BETA-BHC	UG/L				0.1000		U										
DELTA-BHC	UG/L				0.1000		U										
DIELDRIN	UG/L				0.2000		U										
ENDOSULFAN II	UG/L				0.2000		U										
ENDOSULFAN SULFATE	UG/L				0.2000		U										
ENDOSULFAN-I	UG/L				0.1000		U										
ENDRIN	UG/L				0.2000		U										
ENDRIN KETONE	UG/L				0.2000		U										
GAMMA-BHC (LINDANE)	UG/L				0.1000		U										
GAMMA-CHLORDANE	UG/L				1.0000		U										
HEPTACHLOR	UG/L				0.1000		U										
HEPTACHLOR EPOXIDE	UG/L				0.1000		U										
METHOXYCHLOR	UG/L				1.0000		U										
TOXAPHENE	UG/L				2.0000		U										
RADIONUCLIDES																	
URANIUM, TOTAL	UG/L										48.7000	6.8	-				

SAMPLE NUMBER:	046864			046865			046866			046867			046874		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L				10.0000		U									
1,2-DICHLOROBENZENE UG/L				10.0000		U									
1,3-DICHLOROBENZENE UG/L				10.0000		U									
1,4-DICHLOROBENZENE UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL UG/L				10.0000		U									
2,4-DICHLOROPHENOL UG/L				10.0000		U									
2,4-DIMETHYLPHENOL UG/L				10.0000		U									
2,4-DINITROPHENOL UG/L				50.0000		UJ									
2,4-DINITROTOLUENE UG/L				10.0000		U									
2,6-DINITROTOLUENE UG/L				10.0000		U									
2-CHLORONAPHTHALENE UG/L				10.0000		U									
2-CHLOROPHENOL UG/L				10.0000		U									
2-METHYLNAPHTHALENE UG/L				10.0000		U									
2-METHYLPHENOL UG/L				10.0000		U									
2-NITROANILINE UG/L				50.0000		U									
2-NITROPHENOL UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE UG/L				20.0000		UJ									
3-NITROANILINE UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL UG/L				50.0000		U									
4-BROMOPHENYL PHENYL ETHER UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER UG/L				10.0000		U									
4-METHYLPHENOL UG/L				10.0000		U									
4-NITROANILINE UG/L				50.0000		U									
4-NITROPHENOL UG/L				50.0000		U									
ACENAPHTHENE UG/L				10.0000		U									
ACENAPHTHYLENE UG/L				10.0000		U									
ANTHRACENE UG/L				10.0000		U									
BENZO(A)ANTHRACENE UG/L				10.0000		U									
BENZO(A)PYRENE UG/L				10.0000		U									
BENZO(B)FLUORANTHENE UG/L				10.0000		UJ									
BENZO(G,H,I)PERYLENE UG/L				10.0000		UJ									
BENZO(K)FLUORANTHENE UG/L				10.0000		U									
BENZOIC ACID UG/L				50.0000		UJ									
BENZYL ALCOHOL UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE UG/L				10.0000		U									
CHRYSENE UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE UG/L				10.0000		UJ									
DIBENZO(A,H)ANTHRACENE UG/L				10.0000		UJ									

SAMPLE NUMBER:	046864			046865			046866			046867			046874		
LAB:				IT											
SUFFIX/FILTERFLAG:	-			NONE-UNF			-			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIBENZOFURAN UG/L				10.0000		U									
DIETHYL PHTHALATE UG/L				10.0000		U									
DIMETHYL PHTHALATE UG/L				10.0000		U									
FLUORANTHENE UG/L				10.0000		U									
FLUORENE UG/L				10.0000		U									
HEXACHLOROBENZENE UG/L				10.0000		U									
HEXACHLOROBUTADIENE UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE UG/L				10.0000		UJ									
HEXACHLOROETHANE UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE UG/L				10.0000		UJ									
ISOPHORONE UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE UG/L				10.0000		U									
NAPHTHALENE UG/L				10.0000		U									
NITROBENZENE UG/L				10.0000		U									
P-CHLOROANILINE UG/L				10.0000		U									
PENTACHLOROPHENOL UG/L				50.0000		U									
PHENANTHRENE UG/L				10.0000		U									
PHENOL MG/L				10.0000		U									
PYRENE UG/L				10.0000		U									
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L				5.0000		U									
1,1,2,2-TETRACHLOROETHANE UG/L				5.0000		U									
1,1,2-TRICHLOROETHANE UG/L				5.0000		U									
1,1-DICHLOROETHANE UG/L				3.0000		J									
1,1-DICHLOROETHENE UG/L				5.0000		U									
1,2-DICHLOROETHANE UG/L				5.0000		U									
1,2-DICHLOROETHENE (TOTAL) UG/L				5.0000		U									
1,2-DICHLOROPROPANE UG/L				5.0000		U									
2-BUTANONE UG/L				10.0000		UR									
2-HEXANONE UG/L				10.0000		U									
4-METHYL-2-PENTANONE UG/L				10.0000		U									
ACETONE UG/L				10.0000		UJ									
BENZENE UG/L				5.0000		U									
BROMODICHLOROMETHANE UG/L				5.0000		U									
BROMOFORM UG/L				5.0000		U									
BROMOMETHANE UG/L				10.0000		U									
CARBON DISULFIDE UG/L				5.0000		U									
CARBON TETRACHLORIDE UG/L				5.0000		U									
CHLOROBENZENE UG/L				5.0000		U									
CHLOROETHANE UG/L				10.0000		U									
CHLOROFORM UG/L				5.0000		U									
CHLOROMETHANE UG/L				10.0000		U									

SAMPLE NUMBER:	046864	046865	046866	046867	046874
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
DIBROMOCHLOROMETHANE	UG/L				5.0000		U									
ETHYLBENZENE	UG/L				5.0000		U									
METHYLENE CHLORIDE	UG/L				5.0000		U									
STYRENE	UG/L				5.0000		U									
TETRACHLOROETHENE	UG/L				5.0000		U									
TOLUENE	UG/L				5.0000		U									
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U									
TRICHLOROETHENE	UG/L				5.0000		U									
VINYL ACETATE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U									
XYLENES, TOTAL	UG/L				5.0000		U									

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046875			046876			046877			046879			046880		
TASK:	3.7			3.7			3.7			3.7			3.7		
LAB:	IT-KNOX			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1510			1510			1510			1511			1511		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	03-MAY-90			04-JUN-90			04-JUN-90			03-MAY-90			03-MAY-90		
NORTH COORDINATE:	482519.62			482519.62			482519.62			482563.57			482563.57		
EAST COORDINATE:	1380877.9			1380877.9			1380877.9			1380881.74			1380881.74		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1300		J				0.1000		U			
INORGANICS																
ALUMINUM	MG/L	0.0930		-										0.8420		-
ANTIMONY	MG/L	0.0300		U										0.0300		U
ARSENIC	MG/L	0.0020		U										0.0020		U
BARIUM	MG/L	0.0649		-										0.0784		-
BERYLLIUM	MG/L	0.0020		U										0.0020		U
CADMIUM	MG/L	0.0054		-										0.0037		-
CALCIUM	MG/L	126.0000		-										116.0000		-
CHROMIUM	MG/L	0.0322		-										0.0280		-
COBALT	MG/L	0.0100		U										0.0100		U
COPPER	MG/L	0.0121		-										0.0100		U
CYANIDE	MG/L	0.0100		U										0.0100		U
IRON	MG/L	0.0385		-										0.5550		-
LEAD	MG/L	0.0020		UR										0.0020		UR
MAGNESIUM	MG/L	30.7000		-										32.0000		-
MANGANESE	MG/L	0.3440		-										1.2200		-
MERCURY	MG/L	0.0002		UJ										0.0007		J
MOLYBDENUM	MG/L	0.0100		U										0.0100		U
NICKEL	MG/L	0.0200		U										0.0200		-
POTASSIUM	MG/L	1.0600		-										2.3800		-
SELENIUM	MG/L	0.0020		UJ										0.0020		UJ
SILVER	MG/L	0.0216		-										0.0193		-
SODIUM	MG/L	18.5000		-										12.2000		-
THALLIUM	MG/L	0.0020		UR										0.0020		UR
VANADIUM	MG/L	0.0161		-										0.0140		-
ZINC	MG/L	0.0103		U										0.0092		U

001741

ORGANOPHOSPHORUS																	
AZINPHOSMETHYL 06/21/94	UG/L	2.5000	U											2.5000		U
SAMPLE NUMBER:		046875			046876			046877			046879			046880		
LAB:		IT-SAN JOSE												IT-SAN JOSE		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DEMETON	UG/L	2.0000		U										2.0000		U
DIAZINON	UG/L	1.0000		U										1.0000		U
DISULFOTON	UG/L	1.0000		U										1.0000		U
ETHION	UG/L	1.0000		U										1.0000		U
MALATHION	UG/L	1.0000		U										1.0000		U
METHYL PARATHION	UG/L	1.0000		U										1.0000		U
PARATHION	UG/L	1.0000		U										1.0000		U
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U										0.1000		U
4,4'-DDE	UG/L	0.1000		U										0.1000		U
4,4'-DDT	UG/L	0.1000		U										0.1000		U
ALDRIN	UG/L	0.0500		U										0.0500		U
ALPHA-BHC	UG/L	0.0500		U										0.0500		U
ALPHA-CHLORDANE	UG/L	0.5000		U										0.5000		U
AROCLOR-1016	UG/L	0.5000		U										0.5000		U
AROCLOR-1221	UG/L	0.5000		U										0.5000		U
AROCLOR-1232	UG/L	0.5000		U										0.5000		U
AROCLOR-1242	UG/L	0.5000		U										0.5000		U
AROCLOR-1248	UG/L	0.5000		U										0.5000		U
AROCLOR-1254	UG/L	1.0000		U										1.0000		U
AROCLOR-1260	UG/L	1.0000		U										1.0000		U
BETA-BHC	UG/L	0.0500		U										0.0500		U
DELTA-BHC	UG/L	0.0500		U										0.0500		U
DIELDRIN	UG/L	0.1000		U										0.1000		U
ENDOSULFAN II	UG/L	0.1000		U										0.1000		U
ENDOSULFAN SULFATE	UG/L	0.1000		U										0.1000		U
ENDOSULFAN-I	UG/L	0.0500		U										0.0500		U
ENDRIN	UG/L	0.1000		U										0.1000		U
ENDRIN KETONE	UG/L	0.1000		U										0.1000		U
GAMMA-BHC (LINDANE)	UG/L	0.0500		U										0.0500		U
GAMMA-CHLORDANE	UG/L	0.5000		U										0.5000		U
HEPTACHLOR	UG/L	0.0500		U										0.0500		U
HEPTACHLOR EPOXIDE	UG/L	0.0500		U										0.0500		U
METHOXYCHLOR	UG/L	0.5000		U										0.5000		U
TOXAPHENE	UG/L	1.0000		U										1.0000		U
RADIONUCLIDES																
URANIUM, TOTAL	UG/L							138.0000	18	-						

SAMPLE NUMBER:		046875			046876			046877			046879			046880		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U										10.0000		U
1,2-DICHLOROBENZENE	UG/L	10.0000		U										10.0000		U
1,3-DICHLOROBENZENE	UG/L	10.0000		U										10.0000		U
1,4-DICHLOROBENZENE	UG/L	10.0000		U										10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U										50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U										10.0000		U
2,4-DICHLOROPHENOL	UG/L	10.0000		U										10.0000		U
2,4-DIMETHYLPHENOL	UG/L	10.0000		U										10.0000		U
2,4-DINITROPHENOL	UG/L	50.0000		UJ										50.0000		UJ
2,4-DINITROTOLUENE	UG/L	10.0000		U										10.0000		U
2,6-DINITROTOLUENE	UG/L	10.0000		U										10.0000		U
2-CHLORONAPHTHALENE	UG/L	10.0000		U										10.0000		U
2-CHLOROPHENOL	UG/L	10.0000		U										10.0000		U
2-METHYLNAPHTHALENE	UG/L	10.0000		U										10.0000		U
2-METHYLPHENOL	UG/L	10.0000		U										10.0000		U
2-NITROANILINE	UG/L	50.0000		U										50.0000		U
2-NITROPHENOL	UG/L	10.0000		U										10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ										20.0000		U
3-NITROANILINE	UG/L	50.0000		U										50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U										50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U										10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U										10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U										10.0000		U
4-METHYLPHENOL	UG/L	10.0000		U										10.0000		U
4-NITROANILINE	UG/L	50.0000		UJ										50.0000		U
4-NITROPHENOL	UG/L	50.0000		U										50.0000		U
ACENAPHTHENE	UG/L	10.0000		U										10.0000		U
ACENAPHTHYLENE	UG/L	10.0000		U										10.0000		U
ANTHRACENE	UG/L	10.0000		U										10.0000		U
BENZO(A)ANTHRACENE	UG/L	10.0000		U										10.0000		U
BENZO(A)PYRENE	UG/L	10.0000		U										10.0000		U
BENZO(B)FLUORANTHENE	UG/L	10.0000		U										10.0000		UJ
BENZO(G,H,I)PERYLENE	UG/L	10.0000		UJ										10.0000		U
BENZO(K)FLUORANTHENE	UG/L	10.0000		UJ										10.0000		U
BENZOIC ACID	UG/L	50.0000		UR										50.0000		UJ
BENZYL ALCOHOL	UG/L	10.0000		U										10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U										10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U										10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UJ										10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U										10.0000		U
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U										10.0000		U
CHRYSENE	UG/L	10.0000		U										10.0000		U
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U										10.0000		U
DI-N-OCTYL PHTHALATE	UG/L	10.0000		UJ										10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ										10.0000		U

SAMPLE NUMBER:		046875		046876			046877			046879			046880		
LAB:		IT/MWL											IT		
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			NONE-UNF		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIBENZOFURAN	UG/L	10.0000	U										10.0000		U
DIETHYL PHTHALATE	UG/L	10.0000	U										10.0000		U
DIMETHYL PHTHALATE	UG/L	10.0000	U										10.0000		U
FLUORANTHENE	UG/L	10.0000	U										10.0000		U
FLUORENE	UG/L	10.0000	U										10.0000		U
HEXACHLOROBENZENE	UG/L	10.0000	U										10.0000		U
HEXACHLOROBUTADIENE	UG/L	10.0000	U										10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	UJ										10.0000		U
HEXACHLOROETHANE	UG/L	10.0000	U										10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	UJ										10.0000		U
ISOPHORONE	UG/L	10.0000	U										10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U										10.0000		U
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U										10.0000		U
NAPHTHALENE	UG/L	10.0000	U										10.0000		U
NITROBENZENE	UG/L	10.0000	U										10.0000		U
P-CHLOROANILINE	UG/L	10.0000	U										10.0000		U
PENTACHLOROPHENOL	UG/L	50.0000	U										50.0000		U
PHENANTHRENE	UG/L	10.0000	U										10.0000		U
PHENOL	MG/L	10.0000	U										10.0000		U
PYRENE	UG/L	10.0000	U										10.0000		U
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L	5.0000	UJ										5.0000		UJ
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U										5.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U										5.0000		U
1,1-DICHLOROETHANE	UG/L	5.0000	U										5.0000		U
1,1-DICHLOROETHENE	UG/L	5.0000	U										5.0000		U
1,2-DICHLOROETHANE	UG/L	5.0000	UJ										5.0000		UJ
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000	U										5.0000		U
1,2-DICHLOROPROPANE	UG/L	5.0000	U										5.0000		U
2-BUTANONE	UG/L	10.0000	UR										10.0000		UR
2-HEXANONE	UG/L	10.0000	UJ										10.0000		UJ
4-METHYL-2-PENTANONE	UG/L	10.0000	UJ										10.0000		UJ
ACETONE	UG/L	10.0000	U										10.0000		U
BENZENE	UG/L	5.0000	U										5.0000		U
BROMODICHLOROMETHANE	UG/L	5.0000	U										5.0000		U
BROMOFORM	UG/L	5.0000	UJ										5.0000		UJ
BROMOMETHANE	UG/L	10.0000	UJ										10.0000		UJ
CARBON DISULFIDE	UG/L	5.0000	U										5.0000		U
CARBON TETRACHLORIDE	UG/L	5.0000	UJ										5.0000		UJ
CHLOROBENZENE	UG/L	5.0000	U										5.0000		U
CHLOROETHANE	UG/L	10.0000	U										10.0000		U
CHLOROFORM	UG/L	5.0000	U										5.0000		U
CHLOROMETHANE	UG/L	10.0000	U										10.0000		U

001744

5704

SAMPLE NUMBER:		046875			046876			046877			046879			046880		
LAB:		IT-KNOX												IT		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U										5.0000		U
DIBROMOCHLOROMETHANE	UG/L	5.0000		U										5.0000		U
ETHYLBENZENE	UG/L	5.0000		U										5.0000		U
METHYLENE CHLORIDE	UG/L	5.0000		U										5.0000		U
STYRENE	UG/L	5.0000		U										5.0000		U
TETRACHLOROETHENE	UG/L	5.0000		U										5.0000		U
TOLUENE	UG/L	5.0000		U										5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U										5.0000		U
TRICHLOROETHENE	UG/L	5.0000		U										5.0000		U
VINYL ACETATE	UG/L	10.0000		U										10.0000		U
VINYL CHLORIDE	UG/L	10.0000		U										10.0000		U
XYLENES, TOTAL	UG/L	5.0000		U										5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046881			046882			118541			118542			118543		
TASK:	3.7			3.7			50.03.23			50.03.23			50.03.23		
LAB:	IT			IT			FERMCO			FERMCO			DATACHEM		
WELL OR BORING NUMBER:	1511			1511			1511			1511			1511		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	04-JUN-90			04-JUN-90			02-JUN-93			02-JUN-93			02-JUN-93		
NORTH COORDINATE:	482563.57			482563.57			482563.57			482563.57			482563.57		
EAST COORDINATE:	1380881.74			1380881.74			1380881.74			1380881.74			1380881.74		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:															
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													340.0000		-
AMMONIA	MG/L													0.0500		U
CHLORIDE	MG/L													10.0000		-
FLUORIDE	MG/L													0.3000		-
NITRATE	MG/L	0.1000		UJ												
NITRATE/NITRITE	MG/L													0.0500		U
PHENOLS	MG/L													0.0020		UJ
PHOSPHORUS	MG/L													1.9000		-
SULFATE	MG/L													18.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL ORGANIC CARBON	MG/L													30.0000		-
TOTAL ORGANIC HALIDES	MG/L													0.0300		-
INORGANICS																
ALUMINUM	MG/L													17.8000		-
ANTIMONY	MG/L													0.0157		U
ARSENIC	MG/L													0.0020		U
BARIUM	MG/L													0.1900		-
BERYLLIUM	MG/L													0.0011		-
CADMIUM	MG/L													0.0012		U
CALCIUM	MG/L													227.0000		-
CHROMIUM	MG/L													0.0373		-
COBALT	MG/L													0.0186		U
COPPER	MG/L													0.0323		-
CYANIDE	MG/L													0.0100		UJ
IRON	MG/L													35.5000		-
LEAD	MG/L													0.0107		-
MAGNESIUM	MG/L													58.5000		-
MANGANESE	MG/L													1.5300		-

001746

5704

SAMPLE NUMBER:		046881			046882			118541			118542			118543		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.0383		-
POTASSIUM	MG/L													4.7100		-
SELENIUM	MG/L													0.0016		J
SILVER	MG/L													0.0029		UJ
SODIUM	MG/L													7.0000		-
THALLIUM	MG/L													0.0010		UJ
VANADIUM	MG/L													0.0327		-
ZINC	MG/L													0.0920		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				57.4000	11.8	-	120.0000		NV	170.0000		NV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		UJ
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		UJ
1,1,2-TRICHLOROETHANE	UG/L													10.0000		UJ
1,1-DICHLOROETHANE	UG/L													3.0000		J
1,1-DICHLOROETHENE	UG/L													10.0000		UJ
1,2-DICHLOROETHANE	UG/L													10.0000		UJ
1,2-DICHLOROETHENE (TOTAL)	UG/L													0.6000		J
1,2-DICHLOROPROPANE	UG/L													10.0000		UJ
2-BUTANONE	UG/L													10.0000		UJ
2-HEXANONE	UG/L													10.0000		UJ
4-METHYL-2-PENTANONE	UG/L													10.0000		UJ
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L													10.0000		UJ
BROMODICHLOROMETHANE	UG/L													10.0000		UJ
BROMOFORM	UG/L													10.0000		UJ
BROMOMETHANE	UG/L													10.0000		UJ
CARBON DISULFIDE	UG/L													10.0000		UJ
CARBON TETRACHLORIDE	UG/L													10.0000		UJ
CHLOROBENZENE	UG/L													10.0000		UJ
CHLOROETHANE	UG/L													10.0000		UJ
CHLOROFORM	UG/L													10.0000		UJ
CHLOROMETHANE	UG/L													0.6000		J
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		UJ
DIBROMOCHLOROMETHANE	UG/L													10.0000		UJ
ETHYLBENZENE	UG/L													10.0000		UJ
METHYLENE CHLORIDE	UG/L													10.0000		UJ
STYRENE	UG/L													10.0000		UJ
TETRACHLOROETHENE	UG/L													10.0000		UJ
TOLUENE	UG/L													10.0000		UJ

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1267

SAMPLE NUMBER:		046881			046882			118541			118542			118543		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		UJ
TRICHLOROETHENE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		UJ
XYLENES, TOTAL	UG/L													10.0000		UJ

001748

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118544	118546	118547	046884	046885
TASK:	50.03.23	50.03.23	50.03.23	3.7	3.7
LAB:	DATACHEM	CORE	CORE	IT	IT
WELL OR BORING NUMBER:	1511	1511	1511	1512	1512
DEPTH:	-	-	-	-	-
DATE COLLECTED:	02-JUN-93	02-JUN-93	02-JUN-93	03-MAY-90	03-MAY-90
NORTH COORDINATE:	482563.57	482563.57	482563.57	482541.56	482541.56
EAST COORDINATE:	1380881.74	1380881.74	1380881.74	1380926.1	1380926.1
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										0.1000		U			
INORGANICS																
ALUMINUM	MG/L	0.0600		U										0.0893		-
ANTIMONY	MG/L	0.0157		U										0.0300		U
ARSENIC	MG/L	0.0020		UJ										0.0020		U
BARIUM	MG/L	0.0848		-										0.1160		-
BERYLLIUM	MG/L	0.0003		U										0.0020		U
CADMIUM	MG/L	0.0012		U										0.0065		-
CALCIUM	MG/L	116.0000		-										136.0000		-
CHROMIUM	MG/L	0.0046		U										0.0311		-
COBALT	MG/L	0.0034		U										0.0100		U
COPPER	MG/L	0.0040		U										0.0115		-
CYANIDE	MG/L	0.0100		UJ										0.0100		U
IRON	MG/L	0.0221		U										0.0417		-
LEAD	MG/L	0.0010		-										0.0020		UR
MAGNESIUM	MG/L	23.4000		-										52.2000		-
MANGANESE	MG/L	0.3680		-										0.7940		-
MERCURY	MG/L	0.0002		U										0.0002		UJ
MOLYBDENUM	MG/L													0.0100		U
NICKEL	MG/L	0.0070		U										0.0208		-
POTASSIUM	MG/L	0.7370		-										2.3300		-
SELENIUM	MG/L	0.0010		UJ										0.0020		UJ
SILVER	MG/L	0.0029		UJ										0.0215		-
SODIUM	MG/L	6.6700		-										20.0000		-
THALLIUM	MG/L	0.0010		UJ										0.0020		UR
VANADIUM	MG/L	0.0029		U										0.0161		-
ZINC	MG/L	0.0040		U										0.0177		U

SAMPLE NUMBER:		118544			118546			118547			046884			046885		
LAB:					CORE			CORE								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				168.0000	11.8	-	138.0000	9.7	-						
URANIUM-234	PCI/L				61.3000	24.8	R	47.8000	10.5	J						
THORIUM-230	PCI/L				0.6000	.3	J	0.4000	.3	R						
RADIUM-226	PCI/L				4.3000	.7	J	1.0000	.3	U						
URANIUM-235/236	PCI/L				19.1000	9.1	R	2.6000	1.1	J						
THORIUM-232	PCI/L				0.6000	1	R	0.7000	.4	R						
THORIUM, TOTAL	UG/L				5.4721	1	NV									
RADIUM-228	PCI/L				3.0000	1.2	UJ	3.0000	1.4	U						
THORIUM-228	PCI/L				0.8000	1.4	-	0.3000	.4	R						
TECHNETIUM-99	PCI/L				60.8000	12.2	-	63.1000	11.4	J						
GROSS ALPHA	PCI/L				486.0000	110	NV	58.3000	6.6	NV						
GROSS BETA	PCI/L				730.0000	102	NV	51.9000	4.3	NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		UJ
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		UJ
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U

SAMPLE NUMBER:	118544			118546			118547			046884			046885		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(A)PYRENE UG/L													10.0000		U
BENZO(B)FLUORANTHENE UG/L													10.0000		U
BENZO(G,H,I)PERYLENE UG/L													10.0000		U
BENZO(K)FLUORANTHENE UG/L													10.0000		UJ
BENZOIC ACID UG/L													50.0000		UJ
BENZYL ALCOHOL UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE UG/L													10.0000		U
BUTYL BENZYL PHTHALATE UG/L													10.0000		U
CHRYSENE UG/L													10.0000		U
DI-N-BUTYL PHTHALATE UG/L													10.0000		U
DI-N-OCTYL PHTHALATE UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE UG/L													10.0000		U
DIBENZOFURAN UG/L													10.0000		U
DIETHYL PHTHALATE UG/L													10.0000		UJ
DIMETHYL PHTHALATE UG/L													10.0000		U
FLUORANTHENE UG/L													10.0000		U
FLUORENE UG/L													10.0000		UJ
HEXACHLOROBENZENE UG/L													10.0000		U
HEXACHLOROBUTADIENE UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE UG/L													10.0000		UJ
HEXACHLOROETHANE UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE UG/L													10.0000		U
ISOPHORONE UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE UG/L													10.0000		U
N-NITROSODIPHENYLAMINE UG/L													10.0000		U
NAPHTHALENE UG/L													10.0000		U
NITROBENZENE UG/L													10.0000		U
P-CHLOROANILINE UG/L													10.0000		UJ
PENTACHLOROPHENOL UG/L													50.0000		UR
PHENANTHRENE UG/L													10.0000		U
PHENOL MG/L													10.0000		U
PYRENE UG/L													10.0000		U
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L													5.0000		UJ
1,1,2,2-TETRACHLOROETHANE UG/L													5.0000		U
1,1,2-TRICHLOROETHANE UG/L													5.0000		U
1,1-DICHLOROETHANE UG/L													5.0000		U
1,1-DICHLOROETHENE UG/L													5.0000		U
1,2-DICHLOROETHANE UG/L													5.0000		UJ
1,2-DICHLOROETHENE (TOTAL) UG/L													5.0000		U

SAMPLE NUMBER:	118544			118546			118547			046884			046885		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROPROPANE UG/L													5.0000		U
2-BUTANONE UG/L													10.0000		UR
2-HEXANONE UG/L													10.0000		UJ
4-METHYL-2-PENTANONE UG/L													10.0000		UJ
ACETONE UG/L													10.0000		U
BENZENE UG/L													5.0000		U
BROMODICHLOROMETHANE UG/L													5.0000		U
BROMOFORM UG/L													5.0000		UJ
BROMOMETHANE UG/L													10.0000		UJ
CARBON DISULFIDE UG/L													5.0000		U
CARBON TETRACHLORIDE UG/L													5.0000		UJ
CHLOROBENZENE UG/L													5.0000		U
CHLOROETHANE UG/L													10.0000		U
CHLOROFORM UG/L													5.0000		U
CHLOROMETHANE UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE UG/L													5.0000		U
DIBROMOCHLOROMETHANE UG/L													5.0000		U
ETHYLBENZENE UG/L													5.0000		U
METHYLENE CHLORIDE UG/L													5.0000		U
STYRENE UG/L													5.0000		U
TETRACHLOROETHENE UG/L													5.0000		U
TOLUENE UG/L													5.0000		U
TRANS-1,3-DICHLOROPROPENE UG/L													5.0000		U
TRICHLOROETHENE UG/L													5.0000		U
VINYL ACETATE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		U
XYLENES, TOTAL UG/L													5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046886	046887	046888	046889	046890
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1512	1512	1513	1513	1513
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-JUN-90	16-JUN-90	02-MAY-90	02-MAY-90	02-MAY-90
NORTH COORDINATE:	482541.56	482541.56	482549.47	482549.47	482549.47
EAST COORDINATE:	1380926.1	1380926.1	1380951.4	1380951.4	1380951.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L				0.1000		U							0.1300		U
INORGANICS																
ALUMINUM	MG/L										0.1100		-			
ANTIMONY	MG/L										0.0300		U			
ARSENIC	MG/L										0.0020		U			
BARIUM	MG/L										0.0624		-			
BERYLLIUM	MG/L										0.0020		U			
CADMIUM	MG/L										0.0046		-			
CALCIUM	MG/L										106.0000		-			
CHROMIUM	MG/L										0.0268		-			
COBALT	MG/L										0.0100		U			
COPPER	MG/L										0.0100		U			
CYANIDE	MG/L										0.0100		U			
IRON	MG/L										0.0622		-			
LEAD	MG/L										0.0050		J			
MAGNESIUM	MG/L										33.4000		-			
MANGANESE	MG/L										0.0673		-			
MERCURY	MG/L										0.0002		UJ			
MOLYBDENUM	MG/L										0.0100		U			
NICKEL	MG/L										0.0202		-			
POTASSIUM	MG/L										0.5970		-			
SELENIUM	MG/L										0.0020		UJ			
SILVER	MG/L										0.0185		-			
SODIUM	MG/L										21.3000		-			
THALLIUM	MG/L										0.0020		UR			
VANADIUM	MG/L										0.0140		-			
ZINC	MG/L										0.0120		U			

001753

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

ORGANOPHOSPHORUS																	
AZINPHOSMETHYL 06/21/94	UG/L											2.5000		U			
SAMPLE NUMBER:		046886			046887			046888			046889			046890			
LAB:											IT						
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			-			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																	
DEMETON	UG/L										2.0000		U				
DIAZINON	UG/L										1.0000		U				
DISULFOTON	UG/L										1.0000		U				
ETHION	UG/L										1.0000		U				
MALATHION	UG/L										1.0000		U				
METHYL PARATHION	UG/L										1.0000		U				
PARATHION	UG/L										1.0000		U				
PESTICIDES																	
4,4'-DDD	UG/L										0.1000		U				
4,4'-DDE	UG/L										0.1000		U				
4,4'-DDT	UG/L										0.1000		U				
ALDRIN	UG/L										0.0500		U				
ALPHA-BHC	UG/L										0.0500		U				
ALPHA-CHLORDANE	UG/L										0.5000		U				
AROCLOR-1016	UG/L										0.5000		U				
AROCLOR-1221	UG/L										0.5000		U				
AROCLOR-1232	UG/L										0.5000		U				
AROCLOR-1242	UG/L										0.5000		U				
AROCLOR-1248	UG/L										0.5000		U				
AROCLOR-1254	UG/L										1.0000		U				
AROCLOR-1260	UG/L										1.0000		U				
BETA-BHC	UG/L										0.0500		U				
DELTA-BHC	UG/L										0.0500		U				
DIELDRIN	UG/L										0.1000		U				
ENDOSULFAN II	UG/L										0.1000		U				
ENDOSULFAN SULFATE	UG/L										0.1000		U				
ENDOSULFAN-I	UG/L										0.0500		U				
ENDRIN	UG/L										0.1000		U				
ENDRIN KETONE	UG/L										0.1000		U				
GAMMA-BHC (LINDANE)	UG/L										0.0500		U				
GAMMA-CHLORDANE	UG/L										0.5000		U				
HEPTACHLOR	UG/L										0.0500		U				
HEPTACHLOR EPOXIDE	UG/L										0.0500		U				
METHOXYCHLOR	UG/L										0.5000		U				
TOXAPHENE	UG/L										1.0000		U				
RADIONUCLIDES																	
URANIUM-238	PCI/L							2.7100	.57	-							

001754

5704

SAMPLE NUMBER:		046886			046887			046888			046889			046890		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	23.40	003.6	J				11.5000	1.2	J						
URANIUM-234	PCI/L							2.9400	.6	-						
THORIUM-230	PCI/L							1.0000		U						
RADIUM-226	PCI/L							1.0000		UNV						
URANIUM-235/236	PCI/L							1.0000		U						
THORIUM-232	PCI/L							1.0000		U						
THORIUM, TOTAL	UG/L							7.7800	4.19	-						
RADIUM-228	PCI/L							3.0000		UJ						
THORIUM-228	PCI/L							1.2900	.55	-						
NEPTUNIUM-237	PCI/L							1.0000		U						
PLUTONIUM-239/240	PCI/L							1.0000		UJ						
PLUTONIUM-238	PCI/L							1.0000		UJ						
STRONTIUM-90	PCI/L							5.0000		U						
TECHNETIUM-99	PCI/L							30.0000		U						
RUTHENIUM-106	PCI/L							150.0000		R						
CESIUM-137	PCI/L							20.0000		R						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		UR			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		UR			
1,4-DICHLOROBENZENE	UG/L										10.0000		UR			
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		UR			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		UJ			
2,4-DICHLOROPHENOL	UG/L										10.0000		UJ			
2,4-DIMETHYLPHENOL	UG/L										10.0000		UJ			
2,4-DINITROPHENOL	UG/L										50.0000		UR			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		UR			
2-CHLOROPHENOL	UG/L										10.0000		UJ			
2-METHYLNAPHTHALENE	UG/L										10.0000		UR			
2-METHYLPHENOL	UG/L										10.0000		UR			
2-NITROANILINE	UG/L										50.0000		U			
2-NITROPHENOL	UG/L										10.0000		UJ			
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		UJ			
3-NITROANILINE	UG/L										50.0000		UR			
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		UR			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		UJ			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		UR			
4-NITROANILINE	UG/L										50.0000		UR			
4-NITROPHENOL	UG/L										50.0000		UR			

00175

SAMPLE NUMBER:	046886			046887			046888			046889			046890		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			R-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
ACENAPHTHENE UG/L										10.0000		U			
ACENAPHTHYLENE UG/L										10.0000		U			
ANTHRACENE UG/L										10.0000		UR			
BENZO(A)ANTHRACENE UG/L										10.0000		U			
BENZO(A)PYRENE UG/L										10.0000		UR			
BENZO(B)FLUORANTHENE UG/L										10.0000		UJ			
BENZO(G,H,I)PERYLENE UG/L										10.0000		UJ			
BENZO(K)FLUORANTHENE UG/L										10.0000		U			
BENZOIC ACID UG/L										50.0000		UR			
BENZYL ALCOHOL UG/L										10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		UR			
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		UR			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										10.0000		UR			
BUTYL BENZYL PHTHALATE UG/L										10.0000		UR			
CHRYSENE UG/L										10.0000		UR			
DI-N-BUTYL PHTHALATE UG/L										10.0000		UR			
DI-N-OCTYL PHTHALATE UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		UR			
DIBENZOFURAN UG/L										10.0000		U			
DIETHYL PHTHALATE UG/L										10.0000		UR			
DIMETHYL PHTHALATE UG/L										10.0000		U			
FLUORANTHENE UG/L										10.0000		UR			
FLUORENE UG/L										10.0000		UR			
HEXACHLOROBENZENE UG/L										10.0000		UR			
HEXACHLOROBUTADIENE UG/L										10.0000		UR			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		UR			
HEXACHLOROETHANE UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		UR			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		UR			
N-NITROSODIPHENYLAMINE UG/L										10.0000		UR			
NAPHTHALENE UG/L										10.0000		UR			
NITROBENZENE UG/L										10.0000		UR			
P-CHLOROANILINE UG/L										10.0000		UR			
PENTACHLOROPHENOL UG/L										50.0000		UR			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		UJ			
PYRENE UG/L										10.0000		U			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										5.0000		UJ			
1,1,2,2-TETRACHLOROETHANE UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE UG/L										5.0000		U			

SAMPLE NUMBER:	046886	046887	046888	046889	046890
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHANE	UG/L										5.0000		U			
1,1-DICHLOROETHENE	UG/L										5.0000		U			
1,2-DICHLOROETHANE	UG/L										5.0000		UJ			
1,2-DICHLOROETHENE (TOTAL)	UG/L										5.0000		U			
1,2-DICHLOROPROPANE	UG/L										5.0000		U			
2-BUTANONE	UG/L										10.0000		UR			
2-HEXANONE	UG/L										10.0000		UJ			
4-METHYL-2-PENTANONE	UG/L										10.0000		UJ			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										5.0000		U			
BROMODICHLOROMETHANE	UG/L										5.0000		U			
BROMOFORM	UG/L										5.0000		UJ			
BROMOMETHANE	UG/L										10.0000		UJ			
CARBON DISULFIDE	UG/L										5.0000		U			
CARBON TETRACHLORIDE	UG/L										5.0000		UJ			
CHLOROBENZENE	UG/L										5.0000		U			
CHLOROETHANE	UG/L										10.0000		U			
CHLOROFORM	UG/L										5.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
DIBROMOCHLOROMETHANE	UG/L										5.0000		U			
ETHYLBENZENE	UG/L										5.0000		U			
METHYLENE CHLORIDE	UG/L										5.0000		U			
STYRENE	UG/L										5.0000		U			
TETRACHLOROETHENE	UG/L										5.0000		UJ			
TOLUENE	UG/L										5.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										5.0000		U			
TRICHLOROETHENE	UG/L										5.0000		U			
VINYL ACETATE	UG/L										10.0000		U			
VINYL CHLORIDE	UG/L										10.0000		U			
XYLENES, TOTAL	UG/L										5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046891	046892	118549	118550	118551
TASK:	3.7	3.7	50.03.23	50.03.23	50.03.23
LAB:	IT	IT	FERMCO	FERMCO	DATACHEM
WELL OR BORING NUMBER:	1513	1513	1513	1513	1513
DEPTH:	-	-	-	-	-
DATE COLLECTED:	16-JUN-90	16-JUN-90	03-JUN-93	03-JUN-93	03-JUN-93
NORTH COORDINATE:	482549.47	482549.47	482549.47	482549.47	482549.47
EAST COORDINATE:	1380951.4	1380951.4	1380951.4	1380951.4	1380951.4
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													360.0000		-
AMMONIA	MG/L													0.0500		U
CHLORIDE	MG/L													3.5000		-
FLUORIDE	MG/L													0.4000		-
NITRATE	MG/L				0.1000		U									
NITRATE/NITRITE	MG/L													0.0500		U
PHENOLS	MG/L													0.0020		UJ
PHOSPHORUS	MG/L													0.6500		-
SULFATE	MG/L													77.0000		-
SULFIDE	MG/L													1.0000		U
TOTAL ORGANIC CARBON	MG/L													5.0000		-
TOTAL ORGANIC HALIDES	MG/L													0.0300		-
INORGANICS																
ALUMINUM	MG/L													9.7900		-
ANTIMONY	MG/L													0.0157		U
ARSENIC	MG/L													0.0020		U
BARIUM	MG/L													0.1550		-
BERYLLIUM	MG/L													0.0006		U
CADMIUM	MG/L													0.0012		U
CALCIUM	MG/L													167.0000		-
CHROMIUM	MG/L													0.0173		-
COBALT	MG/L													0.0065		U
COPPER	MG/L													0.0191		-
CYANIDE	MG/L													0.0100		UJ
IRON	MG/L													18.4000		-
LEAD	MG/L													0.0058		J
MAGNESIUM	MG/L													57.2000		-
MANGANESE	MG/L													0.5450		-

001758

5704

SAMPLE NUMBER:		046891			046892			118549			118550			118551		
LAB:														DATACHEM		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L													0.0002		U
NICKEL	MG/L													0.0245		-
POTASSIUM	MG/L													4.4300		-
SELENIUM	MG/L													0.0010		UJ
SILVER	MG/L													0.0029		UJ
SODIUM	MG/L													17.0000		-
THALLIUM	MG/L													0.0010		UJ
VANADIUM	MG/L													0.0179		-
ZINC	MG/L													0.0505		-
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	103.00004		-				4.4000		NV	4.2000		NV			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													10.0000		U
1,1,2-TRICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHANE	UG/L													10.0000		U
1,1-DICHLOROETHENE	UG/L													10.0000		U
1,2-DICHLOROETHANE	UG/L													10.0000		UJ
1,2-DICHLOROETHENE (TOTAL)	UG/L													10.0000		UJ
1,2-DICHLOROPROPANE	UG/L													10.0000		U
2-BUTANONE	UG/L													10.0000		UJ
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		UJ
BENZENE	UG/L													10.0000		U
BROMODICHLOROMETHANE	UG/L													10.0000		U
BROMOFORM	UG/L													10.0000		U
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													10.0000		U
CARBON TETRACHLORIDE	UG/L													10.0000		U
CHLOROBENZENE	UG/L													10.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													10.0000		UJ
CHLOROMETHANE	UG/L													10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
DIBROMOCHLOROMETHANE	UG/L													10.0000		U
ETHYLBENZENE	UG/L													10.0000		U
METHYLENE CHLORIDE	UG/L													10.0000		U
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		U

SAMPLE NUMBER:	046891			046892			118549			118550			118551		
LAB:													DATACHEM		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRANS-1,3-DICHLOROPROPENE UG/L													10.0000		U
TRICHLOROETHENE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		U
XYLENES, TOTAL UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118552			118554			118555			046898			046899		
TASK:		50.03.23			50.03.23			50.03.23			3.7			3.7		
LAB:		DATACHEM			CORE			CORE			IT			IT		
WELL OR BORING NUMBER:		1513			1513			1513			1515			1515		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		03-JUN-93			03-JUN-93			03-JUN-93			02-MAY-90			02-MAY-90		
NORTH COORDINATE:		482549.47			482549.47			482549.47			482532.1			482532.1		
EAST COORDINATE:		1380951.4			1380951.4			1380951.4			1380949.31			1380949.31		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	0.0600		U										0.1620		-
ANTIMONY	MG/L	0.0157		U										0.0300		U
ARSENIC	MG/L	0.0020		U										0.0020		U
BARIUM	MG/L	0.0821		-										0.1150		-
BERYLLIUM	MG/L	0.0003		U										0.0020		U
CADMIUM	MG/L	0.0012		U										0.0055		-
CALCIUM	MG/L	103.0000		-										111.0000		-
CHROMIUM	MG/L	0.0031		U										0.0296		-
COBALT	MG/L	0.0034		U										0.0100		U
COPPER	MG/L	0.0024		U										0.0100		U
CYANIDE	MG/L	0.0100		UJ										0.0100		U
IRON	MG/L	0.0307		U										0.1520		-
LEAD	MG/L	0.0010		U										0.0035		J
MAGNESIUM	MG/L	35.5000		-										41.8000		-
MANGANESE	MG/L	0.0044		U										0.2060		-
MERCURY	MG/L	0.0002		U										0.0002		UJ
MOLYBDENUM	MG/L													0.0100		U
NICKEL	MG/L	0.0070		U										0.0216		-
POTASSIUM	MG/L	0.9900		-										0.5140		-
SELENIUM	MG/L	0.0010		UJ										0.0020		UJ
SILVER	MG/L	0.0029		UJ										0.0190		-
SODIUM	MG/L	16.6000		-										26.0000		-
THALLIUM	MG/L	0.0010		UJ										0.0020		UR
VANADIUM	MG/L	0.0029		U										0.0144		-
ZINC	MG/L	0.0060		-										0.0295		U
ORGANOPHOSPHORUS																
AZINPHOSMETHYL	UG/L													2.5000		U
DEMETON	UG/L													2.0000		U

SAMPLE NUMBER:	118552			118554			118555			046898			046899		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS															
DIAZINON UG/L													1.0000		U
DISULFOTON UG/L													1.0000		U
ETHION UG/L													1.0000		U
MALATHION UG/L													1.0000		U
METHYL PARATHION UG/L													1.0000		U
PARATHION UG/L													1.0000		U
PESTICIDES															
4,4'-DDD UG/L													0.1000		U
4,4'-DDE UG/L													0.1000		U
4,4'-DDT UG/L													0.1000		U
ALDRIN UG/L													0.0500		U
ALPHA-BHC UG/L													0.0500		U
ALPHA-CHLORDANE UG/L													0.5000		U
AROCLOR-1016 UG/L													0.5000		U
AROCLOR-1221 UG/L													0.5000		U
AROCLOR-1232 UG/L													0.5000		U
AROCLOR-1242 UG/L													0.5000		U
AROCLOR-1248 UG/L													0.5000		U
AROCLOR-1254 UG/L													1.0000		U
AROCLOR-1260 UG/L													1.0000		U
BETA-BHC UG/L													0.0500		U
DELTA-BHC UG/L													0.0500		U
DIELDRIN UG/L													0.1000		U
ENDOSULFAN II UG/L													0.1000		U
ENDOSULFAN SULFATE UG/L													0.1000		U
ENDOSULFAN-I UG/L													0.0500		U
ENDRIN UG/L													0.1000		U
ENDRIN KETONE UG/L													0.1000		U
GAMMA-BHC (LINDANE) UG/L													0.0500		U
GAMMA-CHLORDANE UG/L													0.5000		U
HEPTACHLOR UG/L													0.0500		U
HEPTACHLOR EPOXIDE UG/L													0.0500		U
METHOXYCHLOR UG/L													0.5000		U
TOXAPHENE UG/L													1.0000		U
RADIONUCLIDES															
URANIUM-238 PCI/L				13.3000	2.8	R	1.1000	1.4	J	4.2000	.72	-			
URANIUM, TOTAL UG/L				7.7000	.5	-	4.1000	.3	-	11.0000	1.9	J			
URANIUM-234 PCI/L				9.8000	2.2	R	1.6000	.6	J	4.7900	.8	-			
THORIUM-230 PCI/L				0.8000	.4	R	0.3000	.2	UJ	1.0000		U			
RADIUM-226 PCI/L				4.5000	.7	J	1.0000	.2	U	1.0000		UNV			
URANIUM-235/236 PCI/L				4.0000	1.2	R	0.2000	.3	UJ	1.0000		U			

001762

5704

SAMPLE NUMBER:	118552			118554			118555			046898			046899		
LAB:				CORE			CORE			IT					
SUFFIX/FILTERFLAG:	-			NONE-UNF			NONE-FIL			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM-232	PCI/L				0.2000	1	R	0.2000	.3	UJ	1.0000		U			
THORIUM, TOTAL	UG/L										2.7500	2.49	-			
RADIUM-228	PCI/L				5.1000	1.4	-	4.7000	1.5	-	3.0000		UJ			
THORIUM-228	PCI/L				0.2000	1.4	R	0.2000	.4	UJ	1.0000		U			
NEPTUNIUM-237	PCI/L										1.0000		U			
PLUTONIUM-239/240	PCI/L										1.0000		UJ			
PLUTONIUM-238	PCI/L										1.0000		UJ			
STRONTIUM-90	PCI/L										5.0000		U			
TECHNETIUM-99	PCI/L				15.0000	7.8	U	15.0000	8	UJ	30.0000		U			
RUTHENIUM-106	PCI/L										150.0000		R			
CESIUM-137	PCI/L										20.0000		R			
GROSS ALPHA	PCI/L				84.0000	27.3	NV	4.2000	2.5	UNV						
GROSS BETA	PCI/L				139.0000	26.2	NV	5.2000	3	UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		UJ
3-NITROANILINE	UG/L													50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U

SAMPLE NUMBER:	118552			118554			118555			046898			046899		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHENE (TOTAL) UG/L													5.0000		U
1,2-DICHLOROPROPANE UG/L													5.0000		U
2-BUTANONE UG/L													10.0000		UR
2-HEXANONE UG/L													10.0000		UJ
4-METHYL-2-PENTANONE UG/L													10.0000		UJ
ACETONE UG/L													10.0000		U
BENZENE UG/L													5.0000		U
BROMODICHLOROMETHANE UG/L													5.0000		U
BROMOFORM UG/L													5.0000		UJ
BROMOMETHANE UG/L													10.0000		UJ
CARBON DISULFIDE UG/L													5.0000		U
CARBON TETRACHLORIDE UG/L													5.0000		UJ
CHLOROBENZENE UG/L													5.0000		U
CHLOROETHANE UG/L													10.0000		U
CHLOROFORM UG/L													5.0000		U
CHLOROMETHANE UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE UG/L													5.0000		U
DIBROMOCHLOROMETHANE UG/L													5.0000		U
ETHYLBENZENE UG/L													5.0000		U
METHYLENE CHLORIDE UG/L													5.0000		U
STYRENE UG/L													5.0000		U
TETRACHLOROETHENE UG/L													5.0000		UJ
TOLUENE UG/L													5.0000		U
TRANS-1,3-DICHLOROPROPENE UG/L													5.0000		U
TRICHLOROETHENE UG/L													5.0000		U
VINYL ACETATE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		U
XYLENES, TOTAL UG/L													5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046900	046901	046902	046968	046969
TASK:	3.7	3.7	3.7	3.7	3.7
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1515	1515	1515	1515	1515
DEPTH:	-	-	-	-	-
DATE COLLECTED:	02-MAY-90	16-JUN-90	16-JUN-90	16-JUN-90	16-JUN-90
NORTH COORDINATE:	482532.1	482532.1	482532.1	482532.1	482532.1
EAST COORDINATE:	1380949.31	1380949.31	1380949.31	1380949.31	1380949.31
QA TYPE:	NORMAL	NORMAL	NORMAL	DUPLICATE	DUPLICATE
QC OF:				046902	046901
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L	0.1000		U				0.1000		U	0.1000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L													16.1000	2.2	-
URANIUM, TOTAL	UG/L				15.8000	2.6	-							29.1000	5	-
URANIUM-234	PCI/L													16.7000	2.2	-
THORIUM-230	PCI/L													1.0000		UJ
RADIUM-226	PCI/L													1.0000		U
URANIUM-235/236	PCI/L													1.0000		U
THORIUM-232	PCI/L													1.0000		UJ
THORIUM, TOTAL	UG/L													4.9000		UJ
RADIUM-228	PCI/L													3.0000		UJ
THORIUM-228	PCI/L													1.0000		UJ
NEPTUNIUM-237	PCI/L													1.0000		U
PLUTONIUM-239/240	PCI/L													1.0000		UJ
PLUTONIUM-238	PCI/L													1.0000		U
TECHNETIUM-99	PCI/L													30.0000		R
RUTHENIUM-106	PCI/L													150.0000		UJ
CESIUM-137	PCI/L													20.0000		U
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													51.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U

001765

SAMPLE NUMBER:	046900	046901	046902	046968	046969
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													51.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													51.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													51.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													51.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													51.0000		U
4-NITROPHENOL	UG/L													51.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													51.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U

SAMPLE NUMBER:	046900	046901	046902	046968	046969
LAB:					IT
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													51.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													5.0000		U
1,1,2-TRICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHANE	UG/L													1.0000		J
1,1-DICHLOROETHENE	UG/L													5.0000		U
1,2-DICHLOROETHANE	UG/L													5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L													5.0000		U
1,2-DICHLOROPROPANE	UG/L													5.0000		U
2-BUTANONE	UG/L													10.0000		U
2-HEXANONE	UG/L													10.0000		U
4-METHYL-2-PENTANONE	UG/L													10.0000		U
ACETONE	UG/L													10.0000		U
BENZENE	UG/L													5.0000		U
BROMODICHLOROMETHANE	UG/L													5.0000		U
BROMOFORM	UG/L													5.0000		UJ
BROMOMETHANE	UG/L													10.0000		U
CARBON DISULFIDE	UG/L													5.0000		U
CARBON TETRACHLORIDE	UG/L													5.0000		U
CHLOROBENZENE	UG/L													5.0000		U
CHLOROETHANE	UG/L													10.0000		U
CHLOROFORM	UG/L													5.0000		U
CHLOROMETHANE	UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L													5.0000		U
DIBROMOCHLOROMETHANE	UG/L													5.0000		U
ETHYLBENZENE	UG/L													5.0000		U
METHYLENE CHLORIDE	UG/L													5.0000		U
STYRENE	UG/L													5.0000		U
TETRACHLOROETHENE	UG/L													5.0000		U
TOLUENE	UG/L													5.0000		U

001767

SAMPLE NUMBER:	046900			046901			046902			046968			046969		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
TRANS-1,3-DICHLOROPROPENE UG/L													5.0000		U
TRICHLOROETHENE UG/L													5.0000		U
VINYL ACETATE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		U
XYLENES, TOTAL UG/L													5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		118557			118558			118559			118560			118562		
TASK:		50.03.23			50.03.23			50.03.23			50.03.23			50.03.23		
LAB:		FERMCO			FERMCO			DATACHEM			DATACHEM			CORE		
WELL OR BORING NUMBER:		1515			1515			1515			1515			1515		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		03-JUN-93			03-JUN-93			03-JUN-93			03-JUN-93			03-JUN-93		
NORTH COORDINATE:		482532.1			482532.1			482532.1			482532.1			482532.1		
EAST COORDINATE:		1380949.31			1380949.31			1380949.31			1380949.31			1380949.31		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							410.0000		-						
AMMONIA	MG/L							0.0500		U						
CHLORIDE	MG/L							8.9000		-						
FLUORIDE	MG/L							0.4000		-						
NITRATE/NITRITE	MG/L							0.0500		U						
PHENOLS	MG/L							0.0070		J						
PHOSPHORUS	MG/L							0.2200		-						
SULFATE	MG/L							69.0000		-						
SULFIDE	MG/L							1.0000		U						
TOTAL ORGANIC CARBON	MG/L							19.0000		-						
TOTAL ORGANIC HALIDES	MG/L							0.0300		-						
INORGANICS																
ALUMINUM	MG/L							5.8500		-	0.0600		U			
ANTIMONY	MG/L							0.0157		U	0.0157		U			
ARSENIC	MG/L							0.0020		U	0.0020		UJ			
BARIUM	MG/L							0.1440		-	0.1220		-			
BERYLLIUM	MG/L							0.0004		U	0.0003		U			
CADMIUM	MG/L							0.0012		U	0.0012		U			
CALCIUM	MG/L							137.0000		-	112.0000		-			
CHROMIUM	MG/L							0.0097		U	0.0031		U			
COBALT	MG/L							0.0078		U	0.0034		U			
COPPER	MG/L							0.0103		-	0.0024		U			
CYANIDE	MG/L							0.0100		UJ	0.0100		UJ			
IRON	MG/L							9.7600		-	0.0474		U			
LEAD	MG/L							0.0036		-	0.0013		-			
MAGNESIUM	MG/L							45.2000		-	40.4000		-			
MANGANESE	MG/L							0.7860		-	0.0758		-			
MERCURY	MG/L							0.0002		U	0.0002		U			

SAMPLE NUMBER:	118557			118558			118559			118560			118562		
LAB:							DATACHEM			DATACHEM					
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
NICKEL MG/L							0.0146		-	0.0093		-			
POTASSIUM MG/L							2.7000		-	1.3200		-			
SELENIUM MG/L							0.0010		UJ	0.0010		UJ			
SILVER MG/L							0.0029		UJ	0.0029		UJ			
SODIUM MG/L							31.2000		-	29.8000		-			
THALLIUM MG/L							0.0010		UJ	0.0010		UJ			
VANADIUM MG/L							0.0086		-	0.0029		U			
ZINC MG/L							0.0230		-	0.0100		-			
RADIONUCLIDES															
URANIUM-238 PCI/L													4.9000	1	-
URANIUM, TOTAL UG/L	16.0000		NV	12.0000		NV							10.8000	.8	-
URANIUM-234 PCI/L													7.6000	1.3	J
THORIUM-230 PCI/L													0.9000	.4	J
RADIUM-226 PCI/L													2.6000	.5	J
URANIUM-235/236 PCI/L													0.8000	.5	-
THORIUM-232 PCI/L													0.6000	1	R
THORIUM, TOTAL UG/L													5.4721	1	NV
RADIUM-228 PCI/L													3.0000	1.1	U
THORIUM-228 PCI/L													0.7000	1.4	-
TECHNETIUM-99 PCI/L													56.5000	11.2	-
GROSS ALPHA PCI/L													44.2000	9.4	NV
GROSS BETA PCI/L													82.3000	9.8	NV
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L							10.0000		U						
1,1,2,2-TETRACHLOROETHANE UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE UG/L							10.0000		U						
1,1-DICHLOROETHANE UG/L							2.0000		J						
1,1-DICHLOROETHENE UG/L							10.0000		U						
1,2-DICHLOROETHANE UG/L							10.0000		UJ						
1,2-DICHLOROETHENE (TOTAL) UG/L							0.8000		J						
1,2-DICHLOROPROPANE UG/L							10.0000		U						
2-BUTANONE UG/L							10.0000		UJ						
2-HEXANONE UG/L							10.0000		U						
4-METHYL-2-PENTANONE UG/L							10.0000		U						
ACETONE UG/L							10.0000		UJ						
BENZENE UG/L							10.0000		U						
BROMODICHLOROMETHANE UG/L							10.0000		U						
BROMOFORM UG/L							10.0000		U						
BROMOMETHANE UG/L							10.0000		U						
CARBON DISULFIDE UG/L							10.0000		U						
CARBON TETRACHLORIDE UG/L							10.0000		U						

SAMPLE NUMBER:	118557	118558	118559	118560	118562
LAB:			DATACHEM		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		UJ						
CHLOROMETHANE	UG/L							10.0000		UJ						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	118563	045643	046983	046984	046985
TASK:	50.03.23	3.7	3.7	3.7	3.7
LAB:	CORE	IT	IT	IT	IT
WELL OR BORING NUMBER:	1515	1523	1523	1523	1523
DEPTH:	-	-	-	-	-
DATE COLLECTED:	03-JUN-93	21-AUG-90	18-JUL-90	18-JUL-90	18-JUL-90
NORTH COORDINATE:	482532.1	479406.88	479406.88	479406.88	479406.88
EAST COORDINATE:	1380949.31	1379945.37	1379945.37	1379945.37	1379945.37
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	DUPLICATE
QC OF:					046983
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
NITRATE	MG/L										1.0700		J			
RADIONUCLIDES																
URANIUM-238	PCI/L	3.7000	.5	J												
URANIUM, TOTAL	UG/L	11.1000	.8	-	22.6000	4.7	-	12.3000	1.9	-				17.1000	2.9	-
URANIUM-234	PCI/L	4.4000	.6	J												
THORIUM-230	PCI/L	0.3000	.2	UJ												
RADIUM-226	PCI/L	1.0000	.3	UJ												
URANIUM-235/236	PCI/L	0.2000	.2	UJ												
THORIUM-232	PCI/L	0.2000	.3	UJ												
THORIUM, TOTAL	UG/L	0.9120	.3	NV												
RADIUM-228	PCI/L	3.0000	1.1	U												
THORIUM-228	PCI/L	0.2000	.4	UJ												
TECHNETIUM-99	PCI/L	27.7000	9.7	J												
GROSS ALPHA	PCI/L	14.8000	3	NV												
GROSS BETA	PCI/L	20.8000	3.8	NV												

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046986	046987	GW930105-8	GW930416-9	064007
TASK:	3.7	3.7	RCRA	50.03.23	40.03.01
LAB:	IT	IT	NET	DATACHEM	IT
WELL OR BORING NUMBER:	1523	1523	1523	1523	1615
DEPTH:	-	-	-	-	-57.5
DATE COLLECTED:	18-JUL-90	21-AUG-90	05-JAN-93	16-APR-93	29-MAY-91
NORTH COORDINATE:	479406.88	479406.88	479406.88	479406.88	480575.03
EAST COORDINATE:	1379945.37	1379945.37	1379945.37	1379945.37	1378436.87
QA TYPE:	DUPLICATE	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:	046984				
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							323.0000		NV	340.0000		-			
ALLYL CHLORIDE	UG/L							5.0000		UNV						
AMMONIA	MG/L							0.3200		NV	0.0500		U	0.1000		U
BICARBONATE ALKALINITY	MG/L							329.0000		NV	430.0000		-			
CARBONATE ALKALINITY	MG/L							3.0000		UNV	3.0000		U			
CHLORIDE	MG/L							10.0000		NV	6.4000		-	3230.0000		-
FLUORIDE	MG/L							0.2400		NV	0.2000		-	0.2400		-
NITRATE	MG/L	0.4600		J	0.4700		-	0.4100		NV				0.1000		U
NITRATE/NITRITE	MG/L										0.7200		-			
NITRITE, AS NITROGEN	MG/L							0.0200		UNV						
PH	STD							7.2400		NV	7.3000		-			
PHENOLS	MG/L							0.0100		UNV	0.0100		U	0.0100		U
PHOSPHORUS	MG/L							0.1500		NV	1.8000		-	0.0700		-
SPECIFIC CONDUCTIVITY	UMHOS/CM							765.0000		NV	720.0000		-			
SULFATE	MG/L							79.0000		NV	37.0000		-	102.0000		-
SULFIDE	MG/L													0.5000		U
TOTAL DISSOLVED SOLIDS	MG/L							385.0000		NV	420.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										1.6000		-			
TOTAL ORGANIC CARBON	MG/L							44.0000		NV	4.0000		UJ	3.0500		-
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV	0.0400		J	0.0150		-
TOTAL ORGANIC NITROGEN	MG/L													0.1670		-
TOTAL SOLIDS	MG/L							6590.0000		NV	2700.0000		-			
INORGANICS																
ALUMINUM	MG/L							11.9000		NV	0.1350		U	0.0901		-
ANTIMONY	MG/L							0.0200		UNV	0.0450		U	0.0987		J
ARSENIC	MG/L							0.0105		NV	0.0024		J	0.0020		U
BARIUM	MG/L							0.2000		UNV	0.0466		-	0.2840		J
BERYLLIUM	MG/L							0.0050		UNV	0.0010		U	0.0020		U

SAMPLE NUMBER:	046986	046987	GW930105-8	GW930416-9	064007
LAB:			NET	DATACHEM	IT
SUFFIX/FILTERFLAG:	-	-	NONE-FIL	NONE-FIL	F-FIL

		046986 RESULT	SIGMA	VAL QUAL(1)	046987 RESULT	SIGMA	VAL QUAL(1)	GW930105-8 RESULT	SIGMA	VAL QUAL(1)	GW930416-9 RESULT	SIGMA	VAL QUAL(1)	064007 RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CADMIUM	MG/L							0.0010		UNV	0.0030		UJ	0.0234		J
CALCIUM	MG/L							296.0000		NV	369.0000		J	500.0000		-
CHROMIUM	MG/L							0.0231		NV	0.0084		U	0.0121		J
COBALT	MG/L							0.0132		NV	0.0060		U	0.0150		J
COPPER	MG/L							0.0280		NV	0.0421		UJ	0.0300		J
CYANIDE	MG/L							0.0050		UNV	0.0100		U	0.0118		-
IRON	MG/L							0.1000		UNV	0.2600		U	3.4800		J
LEAD	MG/L							0.0030		UNV	0.0010		UJ	0.0022		-
MAGNESIUM	MG/L							33.0000		NV	124.0000		J	154.0000		-
MANGANESE	MG/L							0.7860		NV	1.0800		J	0.4650		J
MERCURY	MG/L							0.0002		UNV	0.0002		U	0.0002		U
MOLYBDENUM	MG/L							0.0100		UNV				0.0183		J
NICKEL	MG/L							0.0100		UNV	0.0190		U	0.0632		J
POTASSIUM	MG/L							4.0000		NV	6.3300		J	2.3500		-
SELENIUM	MG/L							0.0050		UNV	0.0200		UR	0.0020		UJ
SILICON	MG/L													7.4900		-
SILVER	MG/L							0.0010		UNV	0.0037		J	0.0261		J
SODIUM	MG/L							4.4000		NV	4.5600		J	1070.0000		-
THALLIUM	MG/L							0.0100		UNV	0.0010		U	0.0100		UJ
VANADIUM	MG/L							0.0500		UNV	0.0413		J	0.0200		J
ZINC	MG/L							0.0200		UNV	0.1320		UJ	1.7800		J
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							5.0000		UNV						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							2.0000		UNV						
1,2-DIBROMOETHANE	UG/L							2.0000		UNV						
2-CHLORO-1,3-BUTADIENE	UG/L							5.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACROLEIN	UG/L							50.0000		UNV						
ACRYLONITRILE	UG/L							50.0000		UNV						
DICHLORODIFLUOROMETHANE	UG/L							10.0000		UNV						
ETHYL CYANIDE	UG/L							20.0000		UNV						
ETHYL METHACRYLATE	UG/L							5.0000		UNV						
IODOMETHANE	UG/L							5.0000		UNV						
METHACRYLONITRILE	UG/L							5.0000		UNV						
METHYL METHACRYLATE	UG/L							5.0000		UNV						
PENTACHLOROETHANE	UG/L							5.0000		UNV						
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L							20.0000		UNV						
PESTICIDES																
4,4'-DDD	UG/L													0.5000		U
4,4'-DDE	UG/L													0.5000		U

SAMPLE NUMBER:		046986			046987			GW930105-8			GW930416-9			064007		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			DL-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDT	UG/L													3.0000		-
ALDRIN	UG/L													0.2500		U
ALPHA-BHC	UG/L													0.2500		U
ALPHA-CHLORDANE	UG/L													2.5000		U
AROCLOR-1016	UG/L													2.5000		U
AROCLOR-1221	UG/L													2.5000		U
AROCLOR-1232	UG/L													2.5000		U
AROCLOR-1242	UG/L													2.5000		U
AROCLOR-1248	UG/L													2.5000		U
AROCLOR-1254	UG/L													5.0000		U
AROCLOR-1260	UG/L													5.0000		U
BETA-BHC	UG/L													0.2500		U
DELTA-BHC	UG/L													0.2500		U
DIELDRIN	UG/L													0.5000		U
ENDOSULFAN II	UG/L													0.5000		U
ENDOSULFAN SULFATE	UG/L													0.5000		U
ENDOSULFAN-I	UG/L													0.2500		U
ENDRIN	UG/L													0.5000		U
ENDRIN KETONE	UG/L													0.5000		U
GAMMA-BHC (LINDANE)	UG/L													0.2500		U
GAMMA-CHLORDANE	UG/L													2.5000		U
HEPTACHLOR	UG/L													0.2500		U
HEPTACHLOR EPOXIDE	UG/L													0.2500		U
METHOXYCHLOR	UG/L													2.5000		U
TOXAPHENE	UG/L													5.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L										1.5000	.3	J	1.0000		U
URANIUM, TOTAL	UG/L							6.6000		NV	26.8000	1.9	-	1.5100	.16	J
URANIUM-234	PCI/L										1.8000	.3	J	1.1700	.39	J
THORIUM-230	PCI/L							0.2000	.1	UNV	0.2000	.1	UJ	1.0000		UJ
RADIUM-226	PCI/L							1.0000	.3	UNV	2.2000	.5	-	1.0000		U
LEAD-210	PCI/L													3.0000		U
URANIUM-235/236	PCI/L										0.2000	.2	UJ	1.0000		UJ
THORIUM-232	PCI/L							0.2000	.1	UNV	0.4000	.1	UJ	1.0000		U
THORIUM, TOTAL	UG/L							1.6000		NV				9.1000		U
RADIUM-228	PCI/L							3.0000	1	UNV	5.5000	1.7	-	3.0000		U
THORIUM-228	PCI/L							0.2000	.1	UNV	0.2000	.1	UJ	1.9600	.96	J
NEPTUNIUM-237	PCI/L													1.0000		R
PLUTONIUM-239/240	PCI/L													1.0000		U
PLUTONIUM-238	PCI/L													1.0000		UJ
STRONTIUM-90	PCI/L													5.0000		R
TECHNETIUM-99	PCI/L										15.0000	6.9	U	30.0000		UJ
RUTHENIUM-106	PCI/L													150.0000		UJ

SAMPLE NUMBER:	046986			046987			GW930105-8			GW930416-9			064007		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
CESIUM-137 PCI/L													20.0000		UJ
GROSS ALPHA PCI/L							1.3000	4.6	UNV	57.7000	19.2	NV			
GROSS BETA PCI/L							21.4000	5.5	NV	7.1000	2.4	NV			
ACTINIUM-227 PCI/L													1.0000		UJ
PROTACTINIUM-231 PCI/L													348.0000		UJ
RADIUM-224 PCI/L													21.0000		UJ
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L													20.0000		U
1,2-DICHLOROBENZENE UG/L													20.0000		U
1,3-DICHLOROBENZENE UG/L													20.0000		U
1,4-DICHLOROBENZENE UG/L													20.0000		U
2,4,5-TRICHLOROPHENOL UG/L													100.0000		U
2,4,6-TRICHLOROPHENOL UG/L													20.0000		U
2,4-DICHLOROPHENOL UG/L													20.0000		U
2,4-DIMETHYLPHENOL UG/L													20.0000		U
2,4-DINITROPHENOL UG/L													100.0000		U
2,4-DINITROTOLUENE UG/L													20.0000		U
2,6-DINITROTOLUENE UG/L													20.0000		U
2-CHLOROETHYLVINYL ETHER UG/L							10.0000		UNV						
2-CHLORONAPHTHALENE UG/L													20.0000		U
2-CHLOROPHENOL UG/L													20.0000		U
2-METHYLNAPHTHALENE UG/L													20.0000		U
2-METHYLPHENOL UG/L													20.0000		U
2-NITROANILINE UG/L													100.0000		U
2-NITROPHENOL UG/L													20.0000		U
3,3'-DICHLOROBENZIDINE UG/L													40.0000		U
3-NITROANILINE UG/L													100.0000		U
4,6-DINITRO-2-METHYLPHENOL UG/L													100.0000		U
4-BROMOPHENYL PHENYL ETHER UG/L													20.0000		U
4-CHLORO-3-METHYLPHENOL UG/L													20.0000		U
4-CHLOROPHENYLPHENYL ETHER UG/L													20.0000		U
4-METHYLPHENOL UG/L													20.0000		U
4-NITROANILINE UG/L													100.0000		U
4-NITROPHENOL UG/L													100.0000		U
ACENAPHTHENE UG/L													20.0000		U
ACENAPHTHYLENE UG/L													20.0000		U
ANTHRACENE UG/L													20.0000		U
BENZO(A)ANTHRACENE UG/L													20.0000		U
BENZO(A)PYRENE UG/L													20.0000		U
BENZO(B)FLUORANTHENE UG/L													20.0000		U
BENZO(G,H,I)PERYLENE UG/L													20.0000		U
BENZO(K)FLUORANTHENE UG/L													20.0000		U
BENZOIC ACID UG/L													100.0000		UJ

SAMPLE NUMBER:		046986			046987			GW930105-8			GW930416-9			064007		
LAB:														IT		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZYL ALCOHOL	UG/L													20.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													20.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													20.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													20.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													20.0000		U
BUTYL BENZYL PHTHALATE	UG/L													20.0000		U
CHRYSENE	UG/L													20.0000		U
CUMENE	UG/L							1.0000		UNV						
DI-N-BUTYL PHTHALATE	UG/L													20.0000		U
DI-N-OCTYL PHTHALATE	UG/L													20.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													20.0000		U
DIBENZOFURAN	UG/L													20.0000		U
DIETHYL PHTHALATE	UG/L													20.0000		U
DIMETHYL PHTHALATE	UG/L													20.0000		U
FLUORANTHENE	UG/L													20.0000		U
FLUORENE	UG/L													20.0000		U
HEXACHLOROBENZENE	UG/L													20.0000		U
HEXACHLOROBUTADIENE	UG/L													20.0000		UJ
HEXACHLOROCYCLOPENTADIENE	UG/L													20.0000		U
HEXACHLOROETHANE	UG/L													20.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													20.0000		U
ISOPHORONE	UG/L													20.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													20.0000		U
N-NITROSODIPHENYLAMINE	UG/L													20.0000		U
NAPHTHALENE	UG/L													20.0000		U
NITROBENZENE	UG/L													20.0000		U
P-CHLOROANILINE	UG/L													20.0000		U
PENTACHLOROPHENOL	UG/L													100.0000		U
PHENANTHRENE	UG/L													20.0000		U
PHENOL	MG/L													20.0000		U
PYRENE	UG/L													20.0000		U
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L							1.0000		UNV						
1,1,1-TRICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
1,1-DICHLOROETHENE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
1,2-DICHLOROETHANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U	5.0000		U
1,2-DICHLOROPROPANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
2-BUTANONE	UG/L							10.0000		UNV	10.0000		U	10.0000		U
2-HEXANONE	UG/L							10.0000		UNV	10.0000		U	1.0000		J

001777

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	046986	046987	GW930105-8	GW930416-9	064007
LAB:			NET	DATACHEM	IT
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
4-METHYL-2-PENTANONE	UG/L							10.0000		UNV	10.0000		U	10.0000		U
ACETONE	UG/L							10.0000		UNV	10.0000		U	10.0000		UJ
BENZENE	UG/L							1.0000		UNV	10.0000		U	5.0000		UJ
BROMODICHLOROMETHANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
BROMOFORM	UG/L							1.0000		UNV	10.0000		U	5.0000		U
BROMOMETHANE	UG/L							5.0000		UNV	10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L							1.0000		UNV	10.0000		U	9.0000		-
CARBON TETRACHLORIDE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
CHLOROBENZENE	UG/L							1.0000		UNV	10.0000		U	5.0000		UJ
CHLOROETHANE	UG/L							10.0000		UNV	10.0000		U	10.0000		U
CHLOROFORM	UG/L							1.0000		UNV	10.0000		U	5.0000		U
CHLOROMETHANE	UG/L							10.0000		UNV	10.0000		UJ	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
DIBROMOCHLOROMETHANE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
ETHYLBENZENE	UG/L							1.0000		UNV	10.0000		U	5.0000		UJ
METHYLENE CHLORIDE	UG/L							10.0000		UNV	10.0000		U	5.0000		UJ
STYRENE	UG/L							1.0000		UNV	10.0000		U	5.0000		UJ
TETRACHLOROETHENE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
TOLUENE	UG/L							1.0000		UNV	2.0000		J	5.0000		UJ
TRANS-1,3-DICHLOROPROPENE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
TRICHLOROETHENE	UG/L							1.0000		UNV	10.0000		U	5.0000		U
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV						
VINYL ACETATE	UG/L							10.0000		UNV				10.0000		U
VINYL CHLORIDE	UG/L							5.0000		UNV	10.0000		UJ	10.0000		U
XYLENES, TOTAL	UG/L							1.0000		UNV	10.0000		U	5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		064021				064052				064009				064154				064090					
TASK:		40.03.01				40.03.01				40.03.01				40.03.01				40.03.01					
LAB:		IT				IT				IT				IT				IT					
WELL OR BORING NUMBER:		1616				1616				1617				1618				1619					
DEPTH:		-48				-120				-68.5				-130				-110					
DATE COLLECTED:		21-JUN-91				09-JUL-91				10-JUN-91				20-AUG-91				31-JUL-91					
NORTH COORDINATE:		480469.31				480469.31				480348.37				480371.07				480476.98					
EAST COORDINATE:		1378400.91				1378400.91				1378432.37				1378511.33				1378529.22					
QA TYPE:		NORMAL				NORMAL				NORMAL				NORMAL				NORMAL					
QC OF:																							
SUFFIX/FILTERFLAG:		NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF				NONE-UNF					
		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)		RESULT	SIGMA	VAL QUAL(1)			
GENERAL CHEMISTRY																							
AMMONIA	MG/L	0.1000		U		0.1000		U		0.1000		U						0.6000		-			
CHLORIDE	MG/L	238.0000		-		195.0000		-		44.8000		-						23.0000		-			
FLUORIDE	MG/L	0.3800		-		0.6800		-		0.6200		-						0.2000		-			
NITRATE	MG/L	55.6000		-		438.0000		-		554.0000		-						13.0000		-			
PHENOLS	MG/L	0.0100		U		0.0200		-		0.0100		U						0.0200		U			
PHOSPHORUS	MG/L	0.0200		U		2.5500		-		0.5500		-						0.0600		-			
SULFATE	MG/L	190.0000		-		450.0000		-		1287.0000		-						190.0000		-			
SULFIDE	MG/L	0.5000		U		0.5000		U		0.5000		U						0.5000		UJ			
TOTAL ORGANIC CARBON	MG/L	3.4600		-		2.6200		-		0.0100		U						1.0000		-			
TOTAL ORGANIC HALIDES	MG/L	0.0310		-		0.0100		U		0.0100		U						0.0100		UJ			
TOTAL ORGANIC NITROGEN	MG/L	0.3270		-		0.5980		-		0.1670		-						0.1000		U			
INORGANICS																							
ALUMINUM	MG/L	74.6000		J		0.1770		-		2.4600		-						0.0753		-			
ANTIMONY	MG/L	0.0483		J		0.0674		-		0.0780		UJ						0.0300		U			
ARSENIC	MG/L	0.0569		J		0.0020		U		0.0020		UJ						0.0020		UJ			
BARIUM	MG/L	0.1120		J		0.0630		-		0.0326		J						0.0381		-			
BERYLLIUM	MG/L	0.0020		U		0.0020		U		0.0020		U						0.0020		U			
CADMIUM	MG/L	0.0114		-		0.0104		-		0.0164		-						0.0052		-			
CALCIUM	MG/L	156.0000		-		208.0000		-		134.0000		-						130.0000		-			
CHROMIUM	MG/L	0.3100		J		0.0396		-		0.0987		-						0.0184		-			
COBALT	MG/L	0.0973		-		0.0125		-		0.0254		-						0.0100		U			
COPPER	MG/L	0.0129		J		0.0131		-		0.0231		J						0.0100		U			
CYANIDE	MG/L	0.0054		-		0.0020		U		0.0067		-						0.0000		UNV			
IRON	MG/L	221.0000		J		1.7000		-		20.1000		J						7.8900		-			
LEAD	MG/L	0.0779		J		0.0020		U		0.0020		UJ						0.0020		U			
MAGNESIUM	MG/L	83.9000		-		83.3000		-		66.0000		-						52.0000		-			
MANGANESE	MG/L	6.2500		-		0.2300		-		0.8390		J						0.2770		-			
MERCURY	MG/L	0.0002		U		0.0002		U		0.0002		UJ						0.0002		UJ			

SAMPLE NUMBER:		064021		064052		064009		064154		064090	
LAB:		IT		IT		IT				IT	
SUFFIX/FILTERFLAG:		NONE-UNF		F-FIL		F-FIL		-		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MOLYBDENUM	MG/L	0.0150	J	0.0259	-	0.2590	-			0.0209	-
NICKEL	MG/L	0.3690	-	0.0300	-	0.0936	U			0.0290	-
POTASSIUM	MG/L	5.8100	-	3.8300	-	2.3600	J			1.5300	-
SELENIUM	MG/L	0.0513	J	0.0020	U	0.0494	J			0.0020	U
SILICON	MG/L	79.4000	J	4.6000	-	10.5000	-			7.1700	-
SILVER	MG/L	0.0345	-	0.0473	-	0.0379	-			0.0181	J
SODIUM	MG/L	139.0000	J	92.7000	-	600.0000	-			39.7000	-
THALLIUM	MG/L	0.0020	R	0.0020	U	0.0020	UJ			0.0020	UJ
VANADIUM	MG/L	0.0223	J	0.0221	-	0.0352	J			0.0108	-
ZINC	MG/L	0.2770	-	0.0140	-	1.5900	-			0.7620	-
PESTICIDES											
4,4'-DDD	UG/L	0.1000	UJ	0.2000	UJ	0.1000	U	0.1000	U	0.1000	U
4,4'-DDE	UG/L	0.1000	UJ	0.2000	UJ	0.1000	U	0.1000	U	0.2000	R
4,4'-DDT	UG/L	0.1000	U	0.2000	UJ	0.1000	U	0.1000	U	0.2000	R
ALDRIN	UG/L	0.0500	UJ	0.1000	UJ	0.0500	U	0.0500	U	0.0500	U
ALPHA-BHC	UG/L	0.0500	UJ	0.0500	R	0.0500	U	0.0500	U	0.0500	U
ALPHA-CHLORDANE	UG/L	0.5000	UJ	0.5000	R	0.5000	U	0.5000	U	1.0000	R
AROCLOR-1016	UG/L	0.5000	U	1.0000	UJ	0.5000	U	0.5000	U	1.0000	R
AROCLOR-1221	UG/L	0.5000	U	1.0000	UJ	0.5000	U	0.5000	U	0.5000	U
AROCLOR-1232	UG/L	0.5000	UJ	1.0000	UJ	0.5000	U	0.5000	U	1.0000	R
AROCLOR-1242	UG/L	0.5000	U	1.0000	UJ	0.5000	U	0.5000	U	0.5000	U
AROCLOR-1248	UG/L	0.5000	U	1.0000	UJ	0.5000	U	0.5000	U	1.0000	R
AROCLOR-1254	UG/L	1.0000	U	2.0000	UJ	1.0000	U	1.0000	U	1.0000	U
AROCLOR-1260	UG/L	1.0000	UJ	2.0000	UJ	1.0000	U	1.0000	U	2.0000	R
BETA-BHC	UG/L	0.0500	UJ	0.1000	UJ	0.0500	U	0.0500	U	0.0500	U
DELTA-BHC	UG/L	0.0500	UJ	0.0500	R	0.0500	U	0.0500	U	0.0500	U
DIELDRIN	UG/L	0.1000	UJ	0.2000	UJ	0.1000	U	0.1000	U	0.2000	R
ENDOSULFAN II	UG/L	0.1000	UJ	0.2000	UJ	0.1000	U	0.1000	U	0.1000	U
ENDOSULFAN SULFATE	UG/L	0.1000	UJ	0.2000	UJ	0.1000	U	0.1000	U	0.2000	R
ENDOSULFAN-I	UG/L	0.0500	UJ	0.1000	UJ	0.0500	U	0.0500	U	0.0500	U
ENDRIN	UG/L	0.1000	UJ	0.2000	UJ	0.1000	U	0.1000	U	0.2000	R
ENDRIN KETONE	UG/L	0.1000	UJ	0.2000	UJ	0.1000	U	0.1000	U	0.1000	U
GAMMA-BHC (LINDANE)	UG/L	0.0500	UJ	0.1000	UJ	0.0500	U	0.0500	U	0.1000	R
GAMMA-CHLORDANE	UG/L	0.5000	UJ	1.0000	UJ	0.5000	U	0.5000	U	0.5000	U
HEPTACHLOR	UG/L	0.0500	UJ	0.1000	UJ	0.0500	U	0.0500	U	0.1000	R
HEPTACHLOR EPOXIDE	UG/L	0.0500	UJ	0.1000	UJ	0.0500	U	0.0500	U	0.0500	U
METHOXYCHLOR	UG/L	0.5000	UJ	1.0000	UJ	0.5000	U	0.5000	U	1.0000	R
TOXAPHENE	UG/L	1.0000	U	2.0000	UJ	1.0000	U	1.0000	U	2.0000	R
RADIONUCLIDES											
URANIUM-238	PCI/L	146.00008	J	1.9600 .47	J	1.2200 .28	J				
URANIUM, TOTAL	UG/L	439.00086	J	6.1700 1.53	J	6.3300 .66	-				

001780

5704

SAMPLE NUMBER:		064021			064052			064009			064154			064090		
LAB:		IT/RSL			IT			IT								
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L	139.00008		J	3.0400	.61	J	1.0000		R						
THORIUM-230	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		R				1.0000		R
RADIUM-226	PCI/L				1.0000		U	1.0000		R				1.0000		U
LEAD-210	PCI/L	3.0000		R	3.0000		UJ							3.0000	1.74	UJ
POLONIUM-210	PCI/L	1.6000		UJ	1.7000		UJ							1.2000		UJ
URANIUM-235/236	PCI/L	9.9200	1.83	J	1.0000		UJ	1.0000		R						
THORIUM-232	PCI/L	1.0000		UJ	1.0000		UJ	1.0000		UJ				1.0000		R
THORIUM, TOTAL	UG/L	2.4000		UJ	3.0000		UJ	3.5000		UJ				3.9000		R
RADIUM-228	PCI/L				3.0000		UJ	3.0000		R				3.0000		U
THORIUM-228	PCI/L	1.0000		UJ	1.5400	.48	J	1.0000		R				1.0000		R
NEPTUNIUM-237	PCI/L							1.0000		R						
PLUTONIUM-239/240	PCI/L							1.0000		U						
PLUTONIUM-238	PCI/L							1.0000		R						
STRONTIUM-90	PCI/L							5.0000		UJ						
TECHNETIUM-99	PCI/L							30.0000		U						
RUTHENIUM-106	PCI/L							150.0000		R						
CESIUM-137	PCI/L							20.0000		R						
ACTINIUM-227	PCI/L	37.7000		UJ	62.0000		UJ							1.0000		R
PROTACTINIUM-231	PCI/L	69.0000		UJ	290.0000		UJ							269.0000		R
RADIUM-224	PCI/L	19.0000		UJ	20.0000		UJ							19.0000		R
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U	10.0000		U
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		U	10.0000		U
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		U	10.0000		U
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U	10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	50.0000		U	100.0000		R	50.0000		R	50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		R	10.0000		U
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		R	10.0000		U
2,4-DIMETHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		R	10.0000		U
2,4-DINITROPHENOL	UG/L	50.0000		U	50.0000		U	100.0000		R	50.0000		R	50.0000		U
2,4-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U	10.0000		U
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		U	10.0000		U
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		U	10.0000		U
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		R	10.0000		U
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U	10.0000		U
2-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		R	10.0000		U
2-NITROANILINE	UG/L	50.0000		U	50.0000		U	50.0000		U	50.0000		U	50.0000		U
2-NITROPHENOL	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		R	10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U	20.0000		U	20.0000		U	20.0000		U	20.0000		UJ
3-NITROANILINE	UG/L	50.0000		U	50.0000		U	100.0000		R	50.0000		U	50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U	50.0000		U	100.0000		R	50.0000		R	50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		U	10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	20.0000		R	10.0000		R	10.0000		U

SAMPLE NUMBER:		064021		064052		064009		064154		064090	
LAB:		IT		IT		IT		IT		IT	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		DL-UNF		NONE-UNF		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
4-METHYLPHENOL	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	R	10.0000	U
4-NITROANILINE	UG/L	50.0000	U	50.0000	U	100.0000	R	50.0000	U	50.0000	UJ
4-NITROPHENOL	UG/L	50.0000	U	50.0000	U	50.0000	U	50.0000	R	50.0000	U
ACENAPHTHENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
ACENAPHTHYLENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
ANTHRACENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
BENZO(A)ANTHRACENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
BENZO(A)PYRENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
BENZO(B)FLUORANTHENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
BENZO(G,H,I)PERYLENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
BENZO(K)FLUORANTHENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
BENZOIC ACID	UG/L	50.0000	U	50.0000	UJ	100.0000	R	50.0000	R	50.0000	UJ
BENZYL ALCOHOL	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000	U	10.0000	U	490.0000	R	10.0000	U	10.0000	U
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
CHRYSENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
DIBENZOFURAN	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
DIETHYL PHTHALATE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
DIMETHYL PHTHALATE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
FLUORANTHENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
FLUORENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
HEXACHLOROBENZENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
HEXACHLOROBUTADIENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
HEXACHLOROETHANE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	UJ
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
ISOPHORONE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U	10.0000	U	20.0000	R	8.0000	J	10.0000	U
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
NAPHTHALENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
NITROBENZENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
P-CHLOROANILINE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
PENTACHLOROPHENOL	UG/L	50.0000	U	50.0000	U	50.0000	U	50.0000	R	50.0000	U
PHENANTHRENE	UG/L	10.0000	U	10.0000	U	20.0000	R	10.0000	U	10.0000	U
PHENOL	MG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	R	10.0000	U
PYRENE	UG/L	10.0000	U	10.0000	U	10.0000	U	10.0000	U	10.0000	U
TRIBUTYL PHOSPHATE	UG/L							10.0000	U		

VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000	U

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1304

SAMPLE NUMBER:	064021	064052	064009	064154	064090
LAB:	IT	IT	IT		IT
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	-	NONE-UNF

VOLATILES		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
1,1-DICHLOROETHANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
1,1-DICHLOROETHENE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
1,2-DICHLOROETHANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
1,2-DICHLOROPROPANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
2-BUTANONE	UG/L	10.0000		U	10.0000		R	10.0000		R				10.0000		UJ
2-HEXANONE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ				10.0000		UJ
4-METHYL-2-PENTANONE	UG/L	10.0000		U	10.0000		U	10.0000		UJ				10.0000		U
ACETONE	UG/L	10.0000		U	41.0000		J	6.0000		UJ				10.0000		U
BENZENE	UG/L	5.0000		U	5.0000		UJ	5.0000		UJ				5.0000		UJ
BROMODICHLOROMETHANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
BROMOFORM	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
BROMOMETHANE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ				10.0000		U
CARBON DISULFIDE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
CARBON TETRACHLORIDE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
CHLOROBENZENE	UG/L	5.0000		U	5.0000		UJ	5.0000		UJ				5.0000		UJ
CHLOROETHANE	UG/L	10.0000		U	10.0000		U	10.0000		UJ				10.0000		U
CHLOROFORM	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
CHLOROMETHANE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ				10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
DIBROMOCHLOROMETHANE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
ETHYLBENZENE	UG/L	5.0000		U	5.0000		UJ	5.0000		UJ				5.0000		UJ
METHYLENE CHLORIDE	UG/L	5.0000		U	5.0000		U	2.0000		U				5.0000		U
STYRENE	UG/L	5.0000		U	5.0000		UJ	5.0000		UJ				5.0000		UJ
TETRACHLOROETHENE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
TOLUENE	UG/L	5.0000		U	5.0000		UJ	5.0000		UJ				5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
TRICHLOROETHENE	UG/L	5.0000		U	5.0000		U	5.0000		UJ				5.0000		U
VINYL ACETATE	UG/L	10.0000		U	10.0000		U	10.0000		UJ				10.0000		U
VINYL CHLORIDE	UG/L	10.0000		U	10.0000		U	10.0000		UJ				10.0000		U
XYLENES, TOTAL	UG/L	5.0000		U	5.0000		UJ	5.0000		UJ				5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	099645	004342	004361	004405	004406
TASK:	40.03.02	3.2.4	3.2.4	3.2.4	3.2.4
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1623	1643	1643	1643	1643
DEPTH:	-8	-	-	-	-
DATE COLLECTED:	03-JUN-91	20-SEP-90	08-JAN-91	13-JUL-91	13-JUL-91
NORTH COORDINATE:	480515.1	481890.76	481890.76	481890.76	481890.76
EAST COORDINATE:	1378532.07	1378724.03	1378724.03	1378724.03	1378724.03
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-NA	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				481.0000		-	1135.8000		J						
AMMONIA	MG/L				1.0200		-				0.1000		UNV	0.1000		UNV
CHLORIDE	MG/L				147.0000		-	46.8900		-	53.4000		NV	188.0000		NV
FLUORIDE	MG/L				0.2200		-	0.9200		-	1.0000		NV	8.0000		NV
NITRATE	MG/L				0.1900		J				15.5000		NV	17.9000		NV
NITRITE, AS NITROGEN	MG/L				0.1000		U									
PH	STD				6.9000		-	7.7300		-						
PHENOLS	MG/L				0.0100		U	0.4700		-	0.0100		UNV	0.0100		UNV
PHOSPHORUS	MG/L				0.0990		-	1.8750		-	2.7900		NV	0.6800		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM				1530.0000		-	733.0000		-						
SULFATE	MG/L				213.0000		J	123.7000		-	130.0000		NV	4.9300		NV
TOTAL DISSOLVED SOLIDS	MG/L				939.0000		-	469.0000		-						
TOTAL ORGANIC CARBON	MG/L				8.5600		-	4.7200		-	1.6400		NV	17.7000		NV
TOTAL ORGANIC HALIDES	MG/L				0.0320		-				0.0100		UNV	0.1100		NV
TOTAL ORGANIC NITROGEN	MG/L							0.2200		-	0.8830		NV	0.2020		NV
INORGANICS																
ALUMINUM	MG/L				0.2260		-	41.8000		J	6.4000		-	3.1100		-
ANTIMONY	MG/L				0.0300		U	0.0419		UJ	0.1520		J	0.0574		J
ARSENIC	MG/L				0.0223		-	0.0046		UJ	0.0020		UJ	0.2490		J
BARIUM	MG/L				0.0864		-	0.4520		J	0.0591		R	0.0557		R
BERYLLIUM	MG/L				0.0020		U	0.0020		UJ	0.0028		-	0.0020		U
CADMIUM	MG/L				0.0050		-	0.0125		UJ	0.0262		-	0.0084		-
CALCIUM	MG/L				111.0000		-	376.0000		J	526.0000		-	60.5000		-
CHROMIUM	MG/L				0.0210		-	0.0282		UJ	0.0363		-	0.0305		-
COBALT	MG/L				0.0100		U	0.0100		UJ	0.0310		-	0.0105		-
COPPER	MG/L				0.0332		-	0.1030		J	0.0664		-	0.0101		-
CYANIDE	MG/L							0.0005		UJ	0.0020		U			
IRON	MG/L				0.4290		-	102.0000		J	0.0678		-	0.0780		-

001784

5204

SAMPLE NUMBER:		099645			004342			004361			004405			004406		
LAB:					IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		-			F-FIL			U-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
LEAD	MG/L				0.0020		U	0.0324		J	0.0032		J	0.0020		UJ
MAGNESIUM	MG/L				38.1000		-	147.0000		J	66.2000		-	50.3000		-
MANGANESE	MG/L				1.8400		-	0.4020		UJ	1.3800		-	0.2760		-
MERCURY	MG/L				0.0002		U	0.0002		UJ	0.0002		U	0.0002		U
MOLYBDENUM	MG/L				0.0100		U	0.2700		UJ	0.0447		-	0.1790		-
NICKEL	MG/L				0.0312		-	0.1690		J	0.0483		-	0.0469		-
POTASSIUM	MG/L				0.3250		-	9.3600		UJ	3.1500		-	39.0000		-
SELENIUM	MG/L				0.0020		UJ	0.0020		UJ	0.0020		UJ	0.0100		UJ
SILICON	MG/L										7.1200		-	5.2200		-
SILVER	MG/L				0.0131		-	0.0378		UJ	0.0308		J	0.0185		J
SODIUM	MG/L				116.0000		-	44.1000		UJ	45.3000		J	464.0000		-
THALLIUM	MG/L				0.0020		U	0.0020		UJ	0.0020		UJ	0.0020		UJ
VANADIUM	MG/L				0.0102		-	0.1110		UJ	0.0207		-	0.0157		-
ZINC	MG/L				0.0437		-	0.0194		UJ	0.0829		J	0.1700		J
RADIONUCLIDES																
URANIUM-238	PCI/L	83.800011.2		J	1.0000		U	239.0000	35	-	76.5000	9.9	NV	74.2000	9.4	NV
URANIUM, TOTAL	UG/L	252.000B4		J	1.9800	.21	-	716.1579	35	NV	146.0000	22	NV	179.0000	26	NV
URANIUM-234	PCI/L	64.30008.8		J	1.0000		U	131.0000	20	-	41.1000	5.6	NV	66.0000	8.5	NV
THORIUM-230	PCI/L				1.0000		U	1.3800	.54	-	4.0600	1.07	NV	1.6300	.41	NV
RADIUM-226	PCI/L	1.8300	.48	-	1.0000		UJ	1.0000	.23	U	1.0000		UNV	3.1500	.58	NV
LEAD-210	PCI/L	3.0000		R												
URANIUM-235/236	PCI/L	6.9000	1.56	J	1.0000		U	8.4600	2.36	-	6.0300	1.28	NV	8.5000	1.55	NV
THORIUM-232	PCI/L				1.0000		U	1.5300	.57	-	2.3800	.77	NV	1.0000		UNV
THORIUM, TOTAL	UG/L				3.3000		U	4.9200	3.36	-	21.5000	6.9	NV	2.1000		UNV
RADIUM-228	PCI/L	3.0000		UJ	3.0000		U	3.8800	1.2	-	3.0000		UNV	3.0000		UNV
THORIUM-228	PCI/L				1.0000		U	1.0000		U	4.3400	1.12	NV	1.7500	.43	NV
NEPTUNIUM-237	PCI/L				1.0000		U	1.0000		UJ	1.0000		UNV	1.0000		UNV
PLUTONIUM-239/240	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UNV	1.0000		UNV
PLUTONIUM-238	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UNV	1.0000		UNV
STRONTIUM-90	PCI/L				15.9000	.23	J				5.0000		UNV	5.0000		UNV
TECHNETIUM-99	PCI/L				30.0000		UJ	39.0000		R	30.0000		UNV	30.0000		UNV
RUTHENIUM-106	PCI/L				150.0000		R	150.0000		UJ	150.0000		UNV	150.0000		UNV
CESIUM-137	PCI/L				20.0000		R	20.0000		UJ	20.0000		UNV	20.0000		UNV
PROTACTINIUM-231	PCI/L	228.0000		UJ												
RADIUM-224	PCI/L	17.0000		UJ												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L				10.0000		-	5.0000		U	5.0000		U	5.0000		U
1,1-DICHLOROETHENE	UG/L				3.0000		J	5.0000		U	5.0000		U	5.0000		U

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1307

SAMPLE NUMBER:		099645			004342			004361			004405			004406		
LAB:					IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHANE	UG/L				9.0000		-	5.0000		UJ	5.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		-	5.0000		U	5.0000		U	5.0000		U
1,2-DICHLOROPROPANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
2-BUTANONE	UG/L				5.0000		U	10.0000		U	10.0000		R	10.0000		R
2-HEXANONE	UG/L				10.0000		UJ	10.0000		U	2.0000		J	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ	10.0000		U	10.0000		U	10.0000		U
ACETONE	UG/L				10.0000		U	25.0000		UJ	10.0000		UJ	10.0000		U
BENZENE	UG/L				5.0000		-	5.0000		UJ	5.0000		U	2.0000		J
BROMODICHLOROMETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
BROMOFORM	UG/L				5.0000		UJ	5.0000		U	5.0000		U	5.0000		U
BROMOMETHANE	UG/L				10.0000		UJ	10.0000		UJ	10.0000		UJ	10.0000		UJ
CARBON DISULFIDE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
CARBON TETRACHLORIDE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
CHLOROBENZENE	UG/L				5.0000		UJ	5.0000		U	5.0000		U	5.0000		U
CHLOROETHANE	UG/L				25.0000		-	10.0000		U	10.0000		U	10.0000		U
CHLOROFORM	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
CHLOROMETHANE	UG/L				10.0000		UJ	10.0000		UJ	10.0000		UJ	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
DIBROMOCHLOROMETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
ETHYLBENZENE	UG/L				5.0000		UJ	5.0000		U	5.0000		U	5.0000		U
METHYLENE CHLORIDE	UG/L				5.0000		U	5.0000		UJ	5.0000		U	5.0000		U
STYRENE	UG/L				5.0000		UJ	5.0000		U	5.0000		U	5.0000		U
TETRACHLOROETHENE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
TOLUENE	UG/L				5.0000		U	5.0000		UJ	5.0000		U	5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		UJ	5.0000		U	5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
VINYL ACETATE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
VINYL CHLORIDE	UG/L				4.0000		J	10.0000		U	10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L				5.0000		UJ	5.0000		U	5.0000		U	5.0000		U

001786

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	070004	EMGW_SYSGEN_335	EMGW_SYSGEN_336	GW930112-9	GW930413-10
TASK:	50.03.04	GWMON	GWMON	RCRA	50.03.23
LAB:	IT	NET	NET	NET	NET
WELL OR BORING NUMBER:	1643	1643	1643	1643	1643
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-JAN-92	23-JUL-91	23-OCT-91	12-JAN-93	13-APR-93
NORTH COORDINATE:	481890.76	481890.76	481890.76	481890.76	481890.76
EAST COORDINATE:	1378724.03	1378724.03	1378724.03	1378724.03	1378724.03
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	500.0000		J	499.0000		NV	491.0000		NV	366.0000		NV	468.0000		-
ALLYL CHLORIDE	UG/L				20.0000		UNV				5.0000		UNV			
AMMONIA	MG/L	0.1300		-	0.0200		UNV	0.0700		NV	0.0200		UNV	0.0200		UR
BICARBONATE ALKALINITY	MG/L										482.0000		NV	604.0000		-
CARBONATE ALKALINITY	MG/L										3.0000		UNV	3.0000		U
CHLORIDE	MG/L	57.0000		-	81.0000		NV	63.0000		NV	80.0000		NV	83.0000		-
FLUORIDE	MG/L	0.9900		-	0.9500		NV	1.0700		NV	0.9800		NV	0.9800		-
NITRATE	MG/L	0.1000		U							0.0200		UNV			
NITRATE, AS NITROGEN	MG/L				0.0300		NV	0.0200		UNV						
NITRATE/NITRITE	MG/L													0.0200		U
NITRITE, AS NITROGEN	MG/L										0.0200		UNV			
PH	STD	7.4900		-	7.1100		NV	7.1500		NV	7.3900		NV	7.2600		-
PHENOLS	MG/L	0.0100		U	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0100		U
PHOSPHORUS	MG/L	1.4600		-	0.7000		NV	0.4500		NV	0.1000		UNV	0.1000		UR
SPECIFIC CONDUCTIVITY	UMHOS/CM	1060.0000		J	1330.0000		NV	1270.0000		NV	1190.0000		NV	1260.0000		-
SULFATE	MG/L	199.0000		-	170.0000		NV	192.0000		NV	213.0000		NV	178.0000		-
TOTAL DISSOLVED SOLIDS	MG/L	1756.0000		-	850.0000		NV	674.0000		NV	738.0000		NV	879.0000		-
TOTAL KJELDAHL NITROGEN	MG/L													0.1600		-
TOTAL ORGANIC CARBON	MG/L	1.1500		J	19.0000		NV	27.0000		NV	10.0000		NV	20.0000		J
TOTAL ORGANIC HALIDES	MG/L	0.0310		U							0.0100		UNV			
TOTAL ORGANIC HALOGENS	MG/L				0.0400		NV	0.0100		UNV				0.0100		U
TOTAL ORGANIC NITROGEN	MG/L													0.1600		-
TOTAL SOLIDS	MG/L										827.0000		NV	906.0000		-
INORGANICS																
ALUMINUM	MG/L	52.0000		-				0.2000		UNV	1.1100		NV	0.3000		-
ANTIMONY	MG/L	0.1290		J	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0450		U
ARSENIC	MG/L	0.0077		J	0.0054		NV	0.0050		UNV	0.0050		UNV	0.0032		-
BARIUM	MG/L	0.3860		-	0.2000		UNV	0.2000		UNV	20.0000		UNV	0.0475		-

SAMPLE NUMBER:	070004	EMGW_SYSGEN_335	EMGW_SYSGEN_336	GW930112-9	GW930413-10
LAB:		NET			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L				15.0000		UNV									
A,A-DIMETHYLPHENETHYLAMINE	UG/L				15.0000		UNV									
ACETOPHENONE	UG/L				15.0000		UNV									
ACROLEIN	UG/L				20.0000		UNV				50.0000		UNV			
ACROLEIN	UG/L				20.0000		UNV				50.0000		UNV			
ACRYLONITRILE	UG/L				20.0000		UNV				50.0000		UNV			
ANILINE	UG/L				4.0000		UNV									
ARAMITE	UG/L				15.0000		UNV									
DIALLATE	UG/L				15.0000		UNV									
DIBROMOMETHANE	UG/L				1.0000		UNV									
DICHLORODIFLUOROMETHANE	UG/L				1.0000		UNV				10.0000		UNV			
DIPHENYLAMINE	UG/L				15.0000		UNV									
ETHYL CYANIDE	UG/L				20.0000		UNV				20.0000		UNV			
ETHYL METHACRYLATE	UG/L				20.0000		UNV				5.0000		UNV			
ETHYL METHANESULFONATE	UG/L				15.0000		UNV									
HEXACHLOROPHENE	UG/L				4.0000		UNV									
HEXACHLOROPROPENE	UG/L				4.0000		UNV									
IODOMETHANE	UG/L				20.0000		UNV				5.0000		UNV			
ISODRIN	UG/L				4.0000		UNV									
ISOSAFROLE	UG/L				15.0000		UNV									
KEPONE	UG/L				4.0000		UNV									
METHACRYLONITRILE	UG/L				20.0000		UNV				5.0000		UNV			
METHAPYRILENE	UG/L				15.0000		UNV									
METHYL METHACRYLATE	UG/L				20.0000		UNV				5.0000		UNV			
METHYL METHANESULFONATE	UG/L				15.0000		UNV									
N-NITROSODI-N-BUTYLAMINE	UG/L				4.0000		UNV									
N-NITROSODIETHYLAMINE	UG/L				4.0000		UNV									
N-NITROSOMETHYLETHYLAMINE	UG/L				4.0000		UNV									
N-NITROSOMORPHOLINE	UG/L				15.0000		UNV									
N-NITROSOPIPERIDINE	UG/L				15.0000		UNV									
N-NITROSOPYRROLIDINE	UG/L				15.0000		UNV									
O-TOLUIDINE	UG/L				15.0000		UNV									
P-DIMETHYLAMINOAZOBENZENE	UG/L				15.0000		UNV									
P-PHENYLENEDIAMINE	UG/L				15.0000		UNV									
PENTACHLOROBENZENE	UG/L				4.0000		UNV									
PENTACHLOROETHANE	UG/L				20.0000		UNV				5.0000		UNV			
PENTACHLORONITROBENZENE	UG/L				4.0000		UNV									
PHENACETIN	UG/L				4.0000		UNV									
PRONAMIDE	UG/L				15.0000		UNV									
SAFROLE	UG/L				15.0000		UNV									
TRANS-1,2-DICHLOROETHENE	UG/L				1.0000		UNV	1.0000		UNV	1.0000		UNV			
TRANS-1,4-DICHLORO-2-BUTENE	UG/L										20.0000		UNV			
ORGANOPHOSPHORUS																

001788

5704

SAMPLE NUMBER:		070004			EMGW_SYSGEN_335			EMGW_SYSGEN_336			GW930112-9			GW930413-10		
LAB:					NET											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DISULFOTON	UG/L				15.0000		UNV									
FAMPHUR	UG/L				15.0000		UNV									
METHYL PARATHION	UG/L				15.0000		UNV									
PARATHION	UG/L				15.0000		UNV									
PHORATE	UG/L				15.0000		UNV									
THIONAZIN	UG/L				15.0000		UNV									
PESTICIDES																
4,4'-DDD	UG/L				0.2000		UNV									
4,4'-DDE	UG/L				0.2000		UNV									
4,4'-DDT	UG/L				0.2000		UNV									
ALDRIN	UG/L				0.2000		UNV									
ALPHA-BHC	UG/L				0.2000		UNV									
AROCLOR-1016	UG/L				0.2000		UNV									
AROCLOR-1221	UG/L				0.2000		UNV									
AROCLOR-1232	UG/L				0.2000		UNV									
AROCLOR-1242	UG/L				0.2000		UNV									
AROCLOR-1248	UG/L				0.2000		UNV									
AROCLOR-1254	UG/L				0.2000		UNV									
AROCLOR-1260	UG/L				0.2000		UNV									
BETA-BHC	UG/L				0.2000		UNV									
CHLORDANE	UG/L				0.2000		UNV									
CHLOROBENZILATE	UG/L				15.0000		UNV									
DELTA-BHC	UG/L				0.2000		UNV									
DIELDRIN	UG/L				0.2000		UNV									
ENDOSULFAN II	UG/L				0.2000		UNV									
ENDOSULFAN SULFATE	UG/L				0.2000		UNV									
ENDOSULFAN-I	UG/L				0.2000		UNV									
ENDRIN	UG/L				0.2000		UNV									
ENDRIN ALDEHYDE	UG/L				0.2000		UNV									
GAMMA-BHC (LINDANE)	UG/L				0.2000		UNV									
HEPTACHLOR	UG/L				0.2000		UNV									
HEPTACHLOR EPOXIDE	UG/L				0.2000		UNV									
SULFOTEP	UG/L				15.0000		UNV									
TOXAPHENE	UG/L				0.5000		UNV									
RADIONUCLIDES																
URANIUM-238	PCI/L													33.1000	5.3	J
URANIUM, TOTAL	UG/L	141.00080		-	220.0000		NV	177.0000		NV	110.0000		NV	81.8000	5.7	J
URANIUM-234	PCI/L													18.4000	3.1	J
THORIUM-230	PCI/L										0.3000	.1	NV	0.2000	.2	UJ
RADIUM-226	PCI/L										1.0000	.3	UNV	1.0000	.2	UJ

001789

SAMPLE NUMBER:		070004			EMGW_SYSGEN_335			EMGW_SYSGEN_336			GW930112-9			GW930413-10		
LAB:											CORE			CORE		
SUFFIX/FILTERFLAG:		-			-			-			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L													0.4000	.2	J
THORIUM-232	PCI/L										0.2000	.1	UNV	0.2000	.1	UJ
THORIUM, TOTAL	UG/L										1.8000		NV			
RADIUM-228	PCI/L										3.0000	.9	UNV	3.0000	1.1	U
THORIUM-228	PCI/L										0.2000	.1	UNV	0.2000	.1	UJ
STRONTIUM-90	PCI/L										1.0000	.5	UNV			
TECHNETIUM-99	PCI/L													15.0000	7.9	U
GROSS ALPHA	PCI/L										51.5000	8.3	NV	55.0000	6.6	NV
GROSS BETA	PCI/L										42.5000	6.5	NV	32.6000	4.6	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				4.0000		UNV									
1,3-DICHLOROBENZENE	UG/L				4.0000		UNV									
1,4-DICHLOROBENZENE	UG/L				4.0000		UNV									
2,4,5-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4,6-TRICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DICHLOROPHENOL	UG/L				4.0000		UNV									
2,4-DIMETHYLPHENOL	UG/L				4.0000		UNV									
2,4-DINITROPHENOL	UG/L				4.0000		UNV									
2,4-DINITROTOLUENE	UG/L				15.0000		UNV									
2,6-DINITROTOLUENE	UG/L				15.0000		UNV									
2-CHLOROETHYLVINYL ETHER	UG/L							10.0000		UNV	10.0000		UNV			
2-CHLORONAPHTHALENE	UG/L				4.0000		UNV									
2-CHLOROPHENOL	UG/L				4.0000		UNV									
2-METHYLNAPHTHALENE	UG/L				4.0000		UNV									
2-METHYLPHENOL	UG/L				4.0000		UNV									
2-NITROANILINE	UG/L				15.0000		UNV									
2-NITROPHENOL	UG/L				4.0000		UNV									
3,3'-DICHLOROBENZIDINE	UG/L				15.0000		UNV									
3-NITROANILINE	UG/L				15.0000		UNV									
4,6-DINITRO-2-METHYLPHENOL	UG/L				4.0000		UNV									
4-BROMOPHENYL PHENYL ETHER	UG/L				15.0000		UNV									
4-CHLORO-3-METHYLPHENOL	UG/L				4.0000		UNV									
4-CHLOROPHENYLPHENYL ETHER	UG/L				15.0000		UNV									
4-NITROANILINE	UG/L				15.0000		UNV									
4-NITROPHENOL	UG/L				4.0000		UNV									
ACENAPHTHENE	UG/L				4.0000		UNV									
ACENAPHTHYLENE	UG/L				4.0000		UNV									
ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)ANTHRACENE	UG/L				4.0000		UNV									
BENZO(A)PYRENE	UG/L				4.0000		UNV									
BENZO(B)FLUORANTHENE	UG/L				4.0000		UNV									
BENZO(G,H,I)PERYLENE	UG/L				4.0000		UNV									
BENZO(K)FLUORANTHENE	UG/L				4.0000		UNV									

001790

5704

SAMPLE NUMBER:	070004			EMGW_SYSGEN_335			EMGW_SYSGEN_336			GW930112-9			GW930413-10		
LAB:				NET											
SUFFIX/FILTERFLAG:	-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZYL ALCOHOL	UG/L				40.0000		UNV									
BIS(2-CHLOROETHOXY)METHANE	UG/L				15.0000		UNV									
BIS(2-CHLOROETHYL)ETHER	UG/L				15.0000		UNV									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				4.0000		UNV									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				4.0000		UNV									
BUTYL BENZYL PHTHALATE	UG/L				4.0000		UNV									
CHRYSENE	UG/L				4.0000		UNV									
CUMENE	UG/L										1.0000		UNV			
DI-N-BUTYL PHTHALATE	UG/L				4.0000		UNV									
DI-N-OCTYL PHTHALATE	UG/L				4.0000		UNV									
DIBENZO(A,H)ANTHRACENE	UG/L				4.0000		UNV									
DIBENZOFURAN	UG/L				4.0000		UNV									
DIETHYL PHTHALATE	UG/L				4.0000		UNV									
DIMETHYL PHTHALATE	UG/L				4.0000		UNV									
FLUORANTHENE	UG/L				4.0000		UNV									
FLUORENE	UG/L				4.0000		UNV									
HEXACHLOROBENZENE	UG/L				4.0000		UNV									
HEXACHLOROBUTADIENE	UG/L				4.0000		UNV									
HEXACHLOROCYCLOPENTADIENE	UG/L				4.0000		UNV									
HEXACHLOROETHANE	UG/L				4.0000		UNV									
INDENO(1,2,3-CD)PYRENE	UG/L				4.0000		UNV									
ISOPHORONE	UG/L				4.0000		UNV									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				4.0000		UNV									
N-NITROSODIMETHYLAMINE	UG/L				4.0000		UNV									
N-NITROSODIPHENYLAMINE	UG/L				4.0000		UNV									
NAPHTHALENE	UG/L				4.0000		UNV									
NITROBENZENE	UG/L				4.0000		UNV									
P-CHLOROANILINE	UG/L				4.0000		UNV									
PENTACHLOROPHENOL	UG/L				4.0000		UNV									
PHENANTHRENE	UG/L				4.0000		UNV									
PHENOL	MG/L				4.0000		UNV									
PYRENE	UG/L				4.0000		UNV									
PYRIDINE	UG/L				4.0000		UNV									
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L				1.0000		UNV				1.0000		UNV			
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1-DICHLOROETHANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,1-DICHLOROETHENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,2-DICHLOROETHANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U				1.0000		UNV				10.0000		U
1,2-DICHLOROPROPANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U

SAMPLE NUMBER:	070004			EMGW_SYSGEN_335			EMGW_SYSGEN_336			GW930112-9			GW930413-10		
LAB:	IT			NET			NET			NET			NET		
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-BUTANONE	UG/L	1.0000		J	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		UJ
2-HEXANONE	UG/L	10.0000		U	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
4-METHYL-2-PENTANONE	UG/L	10.0000		U	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
ACETONE	UG/L	10.0000		U	2.0000		UNV	2.0000		UNV	10.0000		UNV	10.0000		U
BENZENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMODICHLOROMETHANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMOFORM	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
BROMOMETHANE	UG/L	10.0000		UJ	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U
CARBON DISULFIDE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CARBON TETRACHLORIDE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CHLOROBENZENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CHLOROETHANE	UG/L	10.0000		U	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U
CHLOROFORM	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
CHLOROMETHANE	UG/L	10.0000		U	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
DIBROMOCHLOROMETHANE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
ETHYLBENZENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
METHYLENE CHLORIDE	UG/L	11.0000		UJ	1.0000		UNV	1.0000		UNV	10.0000		UNV	10.0000		U
STYRENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
T-1,4-DICHLORO-2-BUTENE	UG/L				20.0000		UNV									
TETRACHLOROETHENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TOLUENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRICHLOROETHENE	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U
TRICHLOROFLUOROMETHANE	UG/L				1.0000		UNV				1.0000		UNV			
VINYL ACETATE	UG/L	10.0000		U	2.0000		UNV	2.0000		UNV	10.0000		UNV			
VINYL CHLORIDE	UG/L	10.0000		U	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U
XYLENES, TOTAL	UG/L	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	004362	070005	EMGW_SYSGEN_339	EMGW_SYSGEN_340	GW930125-10
TASK:	3.2.4	50.03.04	GWMON	GWMON	RCRA
LAB:	IT	IT	NET	NET	NET
WELL OR BORING NUMBER:	1644	1644	1644	1644	1644
DEPTH:	-	-	-	-	-
DATE COLLECTED:	09-JAN-91	28-JAN-92	23-JUL-91	23-OCT-91	25-JAN-93
NORTH COORDINATE:	481616.21	481616.21	481616.21	481616.21	481616.21
EAST COORDINATE:	1378641.29	1378641.29	1378641.29	1378641.29	1378641.29
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	347.1000		J	382.5000		J	330.0000		NV	363.0000		NV	392.0000		NV
ALLYL CHLORIDE	UG/L							20.0000		UNV				5.0000		UNV
AMMONIA	MG/L				7.2100		-	7.7000		NV	7.4700		NV	4.3900		NV
BICARBONATE ALKALINITY	MG/L													476.0000		NV
CARBONATE ALKALINITY	MG/L													3.0000		UNV
CHLORIDE	MG/L	731.9500		-	747.0000		-	837.0000		NV	848.0000		NV	834.0000		NV
FLUORIDE	MG/L	0.3700		-	6.2000		-	8.1200		NV	7.2100		NV	6.0700		NV
NITRATE	MG/L	0.1600		J	0.1000		U							0.0200		UNV
NITRATE, AS NITROGEN	MG/L							0.0200		NV	0.0500		NV			
NITRITE, AS NITROGEN	MG/L	0.0940		-										0.0200		UNV
PH	STD	7.4200		-	7.0700		-	7.0400		NV	6.9600		NV	7.1200		NV
PHENOLS	MG/L	0.0200		-	0.0100		-	0.0060		NV	0.0050		UNV	0.0100		UNV
PHOSPHORUS	MG/L	0.2270		-	0.3300		-	0.3300		NV	0.4300		NV	0.1000		UNV
SPECIFIC CONDUCTIVITY	UMHOS/CM	3320.0000		-	2570.0000		J	3180.0000		NV	3270.0000		NV	3380.0000		NV
SULFATE	MG/L	6.5700		-	18.6000		-	15.0000		NV	12.0000		NV	25.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L	1952.0000		-	896.0000		-	1640.0000		NV	1680.0000		NV	1730.0000		NV
TOTAL ORGANIC CARBON	MG/L	24.3500		-	17.7000		J	35.0000		NV	36.0000		NV	30.0000		NV
TOTAL ORGANIC HALIDES	MG/L	0.2073		J	0.4010		-							0.1400		NV
TOTAL ORGANIC HALOGENS	MG/L							0.3780		NV	0.3360		NV			
TOTAL ORGANIC NITROGEN	MG/L	7.1300		-												
TOTAL SOLIDS	MG/L													1970.0000		NV
INORGANICS																
ALUMINUM	MG/L	0.0600		UJ	0.1240		-				5.7300		NV	7.1100		NV
ANTIMONY	MG/L	0.0333		UJ	0.0395		J	0.0200		UNV	0.0200		UNV	0.0200		UNV
ARSENIC	MG/L	0.2360		J	0.1620		J	0.1060		NV	0.2470		NV	0.3880		NV
BARIUM	MG/L	0.2810		J	0.3000		-	0.2800		NV	0.3300		NV	0.4100		NV
BERYLLIUM	MG/L	0.0020		UJ	0.0020		U	0.0500		UNV	0.0050		UNV	0.0050		UNV
CADMIUM	MG/L	0.0111		J	0.0082		J	0.0010		UNV	0.0010		UNV	0.0010		UNV

SAMPLE NUMBER:		004362		070005		EMGW_SYSGEN_339			EMGW_SYSGEN_340			GW930125-10		
LAB:		IT		IT		NET			NET			NET		
SUFFIX/FILTERFLAG:		U-UNF		F-FIL		NONE-FIL			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CALCIUM	MG/L	7.9400		UJ	79.9000		-	70.0000		NV	85.0000		NV	102.0000		NV
CHROMIUM	MG/L	0.0219		J	0.0246		J	0.0020		UNV	0.0020		UNV	0.0020		UNV
COBALT	MG/L	0.0138		J	0.0100		U	0.0063		NV	0.0098		NV	0.0143		NV
COPPER	MG/L	0.0115		J	0.0104		-	0.0170		NV	0.0200		UNV	0.0200		UNV
CYANIDE	MG/L	0.0017		UJ	0.0020		U	0.0050		UNV	0.0050		UNV	0.0050		UNV
IRON	MG/L	6.2500		J	0.0720		-				0.1300		NV	11.3000		NV
LEAD	MG/L	0.0020		UJ	0.0020		UJ	0.0050		UNV	0.0030		UNV	0.0168		NV
MAGNESIUM	MG/L	60.1000		UJ	60.5000		-				64.0000		NV	65.8000		NV
MANGANESE	MG/L	0.0544		UJ	0.4660		-				0.4730		NV	0.8570		NV
MERCURY	MG/L	0.0002		UJ	0.0002		U	0.0002		UNV	0.0002		UNV	0.0002		UNV
MOLYBDENUM	MG/L	0.1230		UJ	0.1350		-				0.1750		NV	0.1060		NV
NICKEL	MG/L	0.0437		UJ	0.0380		-	0.0100		UNV	0.0270		NV	0.0100		UNV
POTASSIUM	MG/L	27.9000		UJ	27.9000		-				41.0000		NV	20.0000		NV
SELENIUM	MG/L	0.0020		UJ	0.0030		U	0.0050		UNV	0.0050		UNV	0.0050		UNV
SILVER	MG/L	0.0181		UJ	0.0174		R	0.0010		UNV	0.0010		UNV	0.0010		UNV
SODIUM	MG/L	459.0000		UJ	463.0000		-				502.0000		NV	450.0000		NV
THALLIUM	MG/L	0.0020		UJ	0.0100		UJ	0.0100		UNV	0.0100		UNV	0.0100		UNV
TIN	MG/L							2.0000		UNV						
VANADIUM	MG/L	0.0137		UJ	0.0118		-	0.0500		UNV	0.0500		UNV	0.0500		UNV
ZINC	MG/L	0.0050		UJ	0.0135		-	0.0220		NV	0.0250		NV	0.0310		NV
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							1.0000		UNV				5.0000		UNV
1,2,4,5-TETRACHLOROBENZENE	UG/L							4.0000		UNV						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							20.0000		UNV				2.0000		UNV
1,2-DIBROMOETHANE	UG/L							20.0000		UNV				2.0000		UNV
1,3,5-TRINITROBENZENE	UG/L							15.0000		UNV						
1,3-DINITROBENZENE	UG/L							15.0000		UNV						
1,4-NAPHTHOQUINONE	UG/L							15.0000		UNV						
1-NAPHTHYLAMINE	UG/L							15.0000		UNV						
2,3,4,6-TETRACHLOROPHENOL	UG/L							4.0000		UNV						
2,6-DICHLOROPHENOL	UG/L							4.0000		UNV						
2-ACETYLAMINOFLUORENE	UG/L							15.0000		UNV						
2-CHLORO-1,3-BUTADIENE	UG/L							20.0000		UNV				5.0000		UNV
2-NAPHTHYLAMINE	UG/L							4.0000		UNV						
2-PICOLINE	UG/L							15.0000		UNV						
3,3'-DIMETHYLBENZIDINE	UG/L							15.0000		UNV						
3-METHYLCHOLANTHRENE	UG/L							15.0000		UNV						
3-METHYLPHENOL	UG/L							4.0000		UNV						
4-AMINOBIPHENYL	UG/L							15.0000		UNV						
4-NITROQUINOLINE-1-OXIDE	UG/L							15.0000		UNV						
5-NITRO-O-TOLUIDINE	UG/L							15.0000		UNV						
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L							15.0000		UNV						
A,A-DIMETHYLPHENETHYLAMINE	UG/L							15.0000		UNV						

SAMPLE NUMBER:	004362	070005	EMGW_SYSGEN_339	EMGW_SYSGEN_340	GW930125-10
LAB:			NET		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
ACETOPHENONE	UG/L							15.0000		UNV						
ACROLEIN	UG/L							20.0000		UNV				50.0000		UNV
ACROLEIN	UG/L							20.0000		UNV				50.0000		UNV
ACRYLONITRILE	UG/L							20.0000		UNV				50.0000		UNV
ANILINE	UG/L							4.0000		UNV						
ARAMITE	UG/L							15.0000		UNV						
DIALLATE	UG/L							15.0000		UNV						
DIBROMOMETHANE	UG/L							1.0000		UNV						
DICHLORODIFLUOROMETHANE	UG/L							1.0000		UNV				10.0000		UNV
DIPHENYLAMINE	UG/L							15.0000		UNV						
ETHYL CYANIDE	UG/L							20.0000		UNV				20.0000		UNV
ETHYL METHACRYLATE	UG/L							20.0000		UNV				5.0000		UNV
ETHYL METHANESULFONATE	UG/L							15.0000		UNV						
HEXACHLOROPHENE	UG/L							4.0000		UNV						
HEXACHLOROPROPENE	UG/L							4.0000		UNV						
IODOMETHANE	UG/L							20.0000		UNV				5.0000		UNV
ISODRIN	UG/L							4.0000		UNV						
ISOSAFROLE	UG/L							15.0000		UNV						
KEPONE	UG/L							4.0000		UNV						
METHACRYLONITRILE	UG/L							20.0000		UNV				5.0000		UNV
METHAPYRILENE	UG/L							15.0000		UNV						
METHYL METHACRYLATE	UG/L							20.0000		UNV				5.0000		UNV
METHYL METHANESULFONATE	UG/L							15.0000		UNV						
N-NITROSODI-N-BUTYLAMINE	UG/L							4.0000		UNV						
N-NITROSODIETHYLAMINE	UG/L							4.0000		UNV						
N-NITROSOMETHYLETHYLAMINE	UG/L							4.0000		UNV						
N-NITROSOMORPHOLINE	UG/L							15.0000		UNV						
N-NITROSOPIPERIDINE	UG/L							15.0000		UNV						
N-NITROSOPYRROLIDINE	UG/L							15.0000		UNV						
O-TOLUIDINE	UG/L							15.0000		UNV						
P-DIMETHYLAMINOAZOBENZENE	UG/L							15.0000		UNV						
P-PHENYLENEDIAMINE	UG/L							15.0000		UNV						
PENTACHLOROBENZENE	UG/L							4.0000		UNV						
PENTACHLOROETHANE	UG/L							20.0000		UNV				5.0000		UNV
PENTACHLORONITROBENZENE	UG/L							4.0000		UNV						
PHENACETIN	UG/L							4.0000		UNV						
PRONAMIDE	UG/L							15.0000		UNV						
SAFROLE	UG/L							15.0000		UNV						
TRANS-1,2-DICHLOROETHENE	UG/L							1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,4-DICHLORO-2-BUTENE	UG/L													20.0000		UNV
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L							15.0000		UNV						
DISULFOTON	UG/L							15.0000		UNV						

00 4395

SAMPLE NUMBER:	004362	070005	EMGW_SYSGEN_339	EMGW_SYSGEN_340	GW930125-10
LAB:			NET		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
FAMPHUR	UG/L							15.0000		UNV						
METHYL PARATHION	UG/L							15.0000		UNV						
PARATHION	UG/L							15.0000		UNV						
PHORATE	UG/L							15.0000		UNV						
THIONAZIN	UG/L							15.0000		UNV						
PESTICIDES																
4,4'-DDD	UG/L							1.0000		UNV						
4,4'-DDE	UG/L							1.0000		UNV						
4,4'-DDT	UG/L							1.0000		UNV						
ALDRIN	UG/L							1.0000		UNV						
ALPHA-BHC	UG/L							1.0000		UNV						
AROCLOR-1016	UG/L							1.0000		UNV						
AROCLOR-1221	UG/L							1.0000		UNV						
AROCLOR-1232	UG/L							1.0000		UNV						
AROCLOR-1242	UG/L							1.0000		UNV						
AROCLOR-1248	UG/L							1.0000		UNV						
AROCLOR-1254	UG/L							1.0000		UNV						
AROCLOR-1260	UG/L							1.0000		UNV						
BETA-BHC	UG/L							1.0000		UNV						
CHLORDANE	UG/L							1.0000		UNV						
CHLOROBENZILATE	UG/L							15.0000		UNV						
DELTA-BHC	UG/L							1.0000		UNV						
DIELDRIN	UG/L							1.0000		UNV						
ENDOSULFAN II	UG/L							1.0000		UNV						
ENDOSULFAN SULFATE	UG/L							1.0000		UNV						
ENDOSULFAN-I	UG/L							1.0000		UNV						
ENDRIN	UG/L							1.0000		UNV						
ENDRIN ALDEHYDE	UG/L							1.0000		UNV						
GAMMA-BHC (LINDANE)	UG/L							1.0000		UNV						
HEPTACHLOR	UG/L							1.0000		UNV						
HEPTACHLOR EPOXIDE	UG/L							1.0000		UNV						
SULFOTEP	UG/L							15.0000		UNV						
TOXAPHENE	UG/L							2.5000		UNV						
RADIONUCLIDES																
URANIUM-238	PCI/L	60.8	0007.6	-												
URANIUM, TOTAL	UG/L	205.0	0082	-	125.0000	18	-	230.0000		NV	182.0000		NV	39.0000		NV
URANIUM-234	PCI/L	60.3	0007.5	-												
THORIUM-230	PCI/L	3.9600	.79	-										25.1000	9.3	NV
RADIUM-226	PCI/L	7.3400	1.19	-										14.5000	1.1	NV
URANIUM-235/236	PCI/L	3.1700	.77	-												
THORIUM-232	PCI/L	1.0000		U										0.6000	.5	UNV

001796

5704

SAMPLE NUMBER:		004362			070005			EMGW_SYSGEN_339			EMGW_SYSGEN_340			GW930125-10		
LAB:		IT												CORE		
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
THORIUM, TOTAL	UG/L	2.5000		U										5.0000		NV
RADIUM-228	PCI/L	3.0000	.81	U										3.0000	1.2	UNV
THORIUM-228	PCI/L	1.0000		U										1.1000	.8	NV
NEPTUNIUM-237	PCI/L	1.0000		U												
PLUTONIUM-239/240	PCI/L	1.0000		UJ												
PLUTONIUM-238	PCI/L	1.0000		U												
STRONTIUM-90	PCI/L	5.0000		UJ												
TECHNETIUM-99	PCI/L	33.0000		R												
RUTHENIUM-106	PCI/L	150.0000		UJ												
CESIUM-137	PCI/L	20.0000		U												
GROSS ALPHA	PCI/L													59.1000	13.1	NV
GROSS BETA	PCI/L													23.0000	9.4	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							4.0000		UNV						
1,3-DICHLOROBENZENE	UG/L							4.0000		UNV						
1,4-DICHLOROBENZENE	UG/L							4.0000		UNV						
2,4,5-TRICHLOROPHENOL	UG/L							4.0000		UNV						
2,4,6-TRICHLOROPHENOL	UG/L							4.0000		UNV						
2,4-DICHLOROPHENOL	UG/L							4.0000		UNV						
2,4-DIMETHYLPHENOL	UG/L							4.0000		UNV						
2,4-DINITROPHENOL	UG/L							4.0000		UNV						
2,4-DINITROTOLUENE	UG/L							15.0000		UNV						
2,6-DINITROTOLUENE	UG/L							15.0000		UNV						
2-CHLOROETHYLVINYL ETHER	UG/L										10.0000		UNV	10.0000		UNV
2-CHLORONAPHTHALENE	UG/L							4.0000		UNV						
2-CHLOROPHENOL	UG/L							4.0000		UNV						
2-METHYLNAPHTHALENE	UG/L							4.0000		UNV						
2-METHYLPHENOL	UG/L							4.0000		UNV						
2-NITROANILINE	UG/L							15.0000		UNV						
2-NITROPHENOL	UG/L							4.0000		UNV						
3,3'-DICHLOROBENZIDINE	UG/L							15.0000		UNV						
3-NITROANILINE	UG/L							15.0000		UNV						
4,6-DINITRO-2-METHYLPHENOL	UG/L							4.0000		UNV						
4-BROMOPHENYL PHENYL ETHER	UG/L							15.0000		UNV						
4-CHLORO-3-METHYLPHENOL	UG/L							4.0000		UNV						
4-CHLOROPHENYLPHENYL ETHER	UG/L							15.0000		UNV						
4-NITROANILINE	UG/L							15.0000		UNV						
4-NITROPHENOL	UG/L							4.0000		UNV						
ACENAPHTHENE	UG/L							4.0000		UNV						
ACENAPHTHYLENE	UG/L							4.0000		UNV						
ANTHRACENE	UG/L							4.0000		UNV						
BENZO(A)ANTHRACENE	UG/L							4.0000		UNV						
BENZO(A)PYRENE	UG/L							4.0000		UNV						

SAMPLE NUMBER:		004362			070005			EMGW_SYSGEN_339			EMGW_SYSGEN_340			GW930125-10		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(B)FLUORANTHENE	UG/L							4.0000		UNV						
BENZO(G,H,I)PERYLENE	UG/L							4.0000		UNV						
BENZO(K)FLUORANTHENE	UG/L							4.0000		UNV						
BENZYL ALCOHOL	UG/L							40.0000		UNV						
BIS(2-CHLOROETHOXY)METHANE	UG/L							15.0000		UNV						
BIS(2-CHLOROETHYL)ETHER	UG/L							15.0000		UNV						
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							4.0000		UNV						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							4.0000		UNV						
BUTYL BENZYL PHTHALATE	UG/L							4.0000		UNV						
CHRYSENE	UG/L							4.0000		UNV						
CUMENE	UG/L													1.0000		UNV
DI-N-BUTYL PHTHALATE	UG/L							4.0000		UNV						
DI-N-OCTYL PHTHALATE	UG/L							4.0000		UNV						
DIBENZO(A,H)ANTHRACENE	UG/L							4.0000		UNV						
DIBENZOFURAN	UG/L							4.0000		UNV						
DIETHYL PHTHALATE	UG/L							4.0000		UNV						
DIMETHYL PHTHALATE	UG/L							4.0000		UNV						
FLUORANTHENE	UG/L							4.0000		UNV						
FLUORENE	UG/L							4.0000		UNV						
HEXACHLOROBENZENE	UG/L							4.0000		UNV						
HEXACHLOROBUTADIENE	UG/L							4.0000		UNV						
HEXACHLOROCYCLOPENTADIENE	UG/L							4.0000		UNV						
HEXACHLOROETHANE	UG/L							4.0000		UNV						
INDENO(1,2,3-CD)PYRENE	UG/L							4.0000		UNV						
ISOPHORONE	UG/L							4.0000		UNV						
N-NITROSO-DI-N-PROPYLAMINE	UG/L							4.0000		UNV						
N-NITROSODIMETHYLAMINE	UG/L							4.0000		UNV						
N-NITROSODIPHENYLAMINE	UG/L							4.0000		UNV						
NAPHTHALENE	UG/L							4.0000		UNV						
NITROBENZENE	UG/L							4.0000		UNV						
P-CHLOROANILINE	UG/L							4.0000		UNV						
PENTACHLOROPHENOL	UG/L							4.0000		UNV						
PHENANTHRENE	UG/L							4.0000		UNV						
PHENOL	MG/L							4.0000		UNV						
PYRENE	UG/L							4.0000		UNV						
PYRIDINE	UG/L							4.0000		UNV						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L							1.0000		UNV				1.0000		UNV
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	2.0000		J	2.0000		J	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV

5711

SAMPLE NUMBER:		004362		070005		EMGW_SYSGEN_339			EMGW_SYSGEN_340			GW930125-10		
LAB:		IT		IT		NET			NET			NET		
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHANE	UG/L	5.0000		UJ	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U	5.0000		U				1.1000		NV			
1,2-DICHLOROPROPANE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
2-BUTANONE	UG/L	10.0000		U	10.0000		U	2.0000		UNV	2.0000		UNV	10.0000		UNV
2-HEXANONE	UG/L	10.0000		U	10.0000		UJ	2.0000		UNV	2.0000		UNV	10.0000		UNV
4-METHYL-2-PENTANONE	UG/L	10.0000		U	10.0000		U	2.0000		UNV	2.0000		UNV	10.0000		UNV
ACETONE	UG/L	21.0000		UJ	11.0000		U	2.0000		NV	2.0000		UNV	10.0000		UNV
BENZENE	UG/L	3.0000		UJ	2.0000		J	1.0000		UNV	4.6000		NV	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOFORM	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
BROMOMETHANE	UG/L	10.0000		UJ	10.0000		U	1.0000		UNV	1.0000		UNV	5.0000		UNV
CARBON DISULFIDE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROBENZENE	UG/L	5.0000		UJ	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROETHANE	UG/L	10.0000		U	2.0000		J	1.0000		UNV	1.0000		UNV	10.0000		UNV
CHLOROFORM	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
CHLOROMETHANE	UG/L	10.0000		UJ	10.0000		U	1.0000		UNV	1.0000		UNV	10.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
ETHYLBENZENE	UG/L	5.0000		UJ	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
METHYLENE CHLORIDE	UG/L	5.0000		UJ	9.0000		U	1.0000		UNV	1.0000		UNV	10.0000		UNV
STYRENE	UG/L	5.0000		UJ	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
T-1,4-DICHLORO-2-BUTENE	UG/L							20.0000		UNV						
TETRACHLOROETHENE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
TOLUENE	UG/L	5.0000		UJ	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROETHENE	UG/L	5.0000		U	5.0000		U	1.0000		UNV	1.0000		UNV	1.0000		UNV
TRICHLOROFLUOROMETHANE	UG/L							1.0000		UNV				1.0000		UNV
VINYL ACETATE	UG/L	10.0000		U	10.0000		U	2.0000		UNV	2.0000		UNV	10.0000		UNV
VINYL CHLORIDE	UG/L	10.0000		U	10.0000		U	1.0000		UNV	1.0000		UNV	5.0000		UNV
XYLENES, TOTAL	UG/L	5.0000		UJ	5.0000		U	1.0000		UNV	2.5000		NV	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	GW930417-8	004899	004900	070006	EMGW_SYSGEN_343
TASK:	50.03.23	3.2.4	50.03.04	50.03.04	GWMON
LAB:	NET	IT	WMCO	IT	NET
WELL OR BORING NUMBER:	1644	1645	1645	1645	1645
DEPTH:	-	-	-	-	-
DATE COLLECTED:	17-APR-93	08-OCT-91	08-OCT-91	29-JAN-92	23-JUL-91
NORTH COORDINATE:	481616.21	481583.25	481583.25	481583.25	481583.25
EAST COORDINATE:	1378641.29	1379060.26	1379060.26	1379060.26	1379060.26
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	336.0000		-	395.0000		-				425.0000		-	202.0000		NV
ALLYL CHLORIDE	UG/L													20.0000		UNV
AMMONIA	MG/L	2.2900		J	0.1000		U				0.1000		U	0.0900		NV
BICARBONATE ALKALINITY	MG/L	458.0000		-												
CARBONATE ALKALINITY	MG/L	3.0000		U												
CHLORIDE	MG/L	782.0000		-	39.0000		-				53.9000		-	49.0000		NV
FLUORIDE	MG/L	6.7600		-	0.8800		-				0.6200		-	0.7000		NV
NITRATE	MG/L				0.2100		J				0.1000		U			
NITRATE, AS NITROGEN	MG/L													0.0800		NV
NITRATE/NITRITE	MG/L	0.0200		U												
PH	STD	7.1500		-	7.2000		J				7.4500		-	7.1900		NV
PHENOLS	MG/L	0.0100		U	0.0100		U				0.0100		U	0.0050		UNV
PHOSPHORUS	MG/L	0.4900		J	6.2700		J				0.1200		-	1.5900		NV
SPECIFIC CONDUCTIVITY	UMHOS/CM	2820.0000		-	1201.0000		-				1280.0000		-	1180.0000		NV
SULFATE	MG/L	13.0000		J	334.0000		-				226.0000		-	226.0000		NV
TOTAL DISSOLVED SOLIDS	MG/L	1740.0000		-	860.0000		-				828.0000		-	924.0000		NV
TOTAL KJELDAHL NITROGEN	MG/L	6.3600		-												
TOTAL ORGANIC CARBON	MG/L	33.0000		-	1.2100		-				1.0000		U	18.0000		NV
TOTAL ORGANIC HALIDES	MG/L				0.0220		-				0.1560		-			
TOTAL ORGANIC HALOGENS	MG/L	0.1450		-										0.0120		NV
TOTAL ORGANIC NITROGEN	MG/L	4.0700		-	2.0900		-									
TOTAL SOLIDS	MG/L	1880.0000		-												
INORGANICS																
ALUMINUM	MG/L	0.0200		UJ	13.9000		J				0.4340		-			
ANTIMONY	MG/L	0.0450		U	0.0603		J				0.0498		J	0.0200		UNV
ARSENIC	MG/L	0.1910		-	0.0091		J				0.0020		UJ	0.0050		UNV
BARIUM	MG/L	0.2670		-	0.1220		J				0.0480		-	0.2000		UNV
BERYLLIUM	MG/L	0.0010		U	0.0020		U				0.0020		U	0.0500		UNV

SAMPLE NUMBER:		GW930417-8		004899		004900			070006			EMGW_SYSGEN_343		
LAB:		NET		IT					IT/MWL			NET		
SUFFIX/FILTERFLAG:		NONE-UNF		F-FIL		-			U-UNF			NONE-FIL		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS														
BORON	MG/L			0.6700	J									
CADMIUM	MG/L	0.0038	-	0.0097	J				0.0099		J	0.0010		UNV
CALCIUM	MG/L	67.3000	-	196.0000	J				161.0000		J	139.0000		NV
CHROMIUM	MG/L	0.0141	-	0.0696	J				0.0419		-	0.0020		UNV
COBALT	MG/L	0.0146	-	0.0196	-				0.0100		U	0.0050		UNV
COPPER	MG/L	0.0221	U	0.0446	-				0.0164		-	0.0560		NV
CYANIDE	MG/L	0.0100	UJ	0.0020	UJ				0.0020		UJ	0.0050		UNV
IRON	MG/L	13.1000	J	26.3000	J				0.7290		-			
LEAD	MG/L	0.0178	U	0.0211	-				0.0020		UJ	0.0057		NV
MAGNESIUM	MG/L	52.8000	-	91.0000	J				69.3000		-			
MANGANESE	MG/L	0.4030	-	0.4290	J				0.0226		-			
MERCURY	MG/L	0.0002	U	0.0002	U				0.0002		U	0.0002		UNV
MOLYBDENUM	MG/L			0.0258	J				0.0182		J			
NICKEL	MG/L	0.0200	U	0.0516	-				0.0400		-	0.0840		NV
POTASSIUM	MG/L	20.6000	-	10.4000	-				2.1900		-			
SELENIUM	MG/L	0.0014	UJ	0.0020	U				0.0030		U	0.0050		UNV
SILICON	MG/L			24.4000	J									
SILVER	MG/L	0.0070	U	0.0387	-				0.0322		R	0.0010		UNV
SODIUM	MG/L	404.0000	-	15.4000	J				16.7000		-			
THALLIUM	MG/L	0.0100	UJ	0.0020	U				0.0100		UJ	0.0100		UNV
TIN	MG/L											2.0000		UNV
VANADIUM	MG/L	0.0030	U	0.0347	-				0.0238		-	0.0500		UNV
ZINC	MG/L	0.0133	U	0.0708	J				0.0113		-	0.0340		NV
MISC														
1,2,3-TRICHLOROPROPANE	UG/L											1.0000		UNV
1,2,4,5-TETRACHLOROBENZENE	UG/L											4.0000		UNV
1,2-DIBROMO-3-CHLOROPROPANE	UG/L											20.0000		UNV
1,2-DIBROMOETHANE	UG/L											20.0000		UNV
1,3,5-TRINITROBENZENE	UG/L											15.0000		UNV
1,3-DINITROBENZENE	UG/L											15.0000		UNV
1,4-NAPHTHOQUINONE	UG/L											15.0000		UNV
1-NAPHTHYLAMINE	UG/L											15.0000		UNV
2,3,4,6-TETRACHLOROPHENOL	UG/L											4.0000		UNV
2,6-DICHLOROPHENOL	UG/L											4.0000		UNV
2-ACETYLAMINOFLUORENE	UG/L											15.0000		UNV
2-CHLORO-1,3-BUTADIENE	UG/L											20.0000		UNV
2-NAPHTHYLAMINE	UG/L											4.0000		UNV
2-PICOLINE	UG/L											15.0000		UNV
3,3'-DIMETHYLBENZIDINE	UG/L											15.0000		UNV
3-METHYLCHOLANTHRENE	UG/L											15.0000		UNV
3-METHYLPHENOL	UG/L											4.0000		UNV
4-AMINOBIPHENYL	UG/L											15.0000		UNV
4-NITROQUINOLINE-1-OXIDE	UG/L											15.0000		UNV

SAMPLE NUMBER:	GW930417-8			004899			004900			070006			EMGW_SYSGEN_343		
LAB:													NET		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
5-NITRO-O-TOLUIDINE UG/L													15.0000		UNV
7,12-DIMETHYLBENZ(A)ANTHRACENE UG/L													15.0000		UNV
A,A-DIMETHYLPHENETHYLAMINE UG/L													15.0000		UNV
ACETOPHENONE UG/L													15.0000		UNV
ACROLEIN UG/L													20.0000		UNV
ACROLEIN UG/L													20.0000		UNV
ACRYLONITRILE UG/L													20.0000		UNV
ANILINE UG/L													4.0000		UNV
ARAMITE UG/L													15.0000		UNV
DIALLATE UG/L													15.0000		UNV
DIBROMOMETHANE UG/L													1.0000		UNV
DICHLORODIFLUOROMETHANE UG/L													1.0000		UNV
DIPHENYLAMINE UG/L													15.0000		UNV
ETHYL CYANIDE UG/L													20.0000		UNV
ETHYL METHACRYLATE UG/L													20.0000		UNV
ETHYL METHANESULFONATE UG/L													15.0000		UNV
HEXACHLOROPHENE UG/L													4.0000		UNV
HEXACHLOROPROPENE UG/L													4.0000		UNV
IODOMETHANE UG/L													20.0000		UNV
ISODRIN UG/L													4.0000		UNV
ISOSAFROLE UG/L													15.0000		UNV
KEPONE UG/L													4.0000		UNV
METHACRYLONITRILE UG/L													20.0000		UNV
METHAPYRILENE UG/L													15.0000		UNV
METHYL METHACRYLATE UG/L													20.0000		UNV
METHYL METHANESULFONATE UG/L													15.0000		UNV
N-NITROSODI-N-BUTYLAMINE UG/L													4.0000		UNV
N-NITROSODIETHYLAMINE UG/L													4.0000		UNV
N-NITROSOMETHYLETHYLAMINE UG/L													4.0000		UNV
N-NITROSOMORPHOLINE UG/L													15.0000		UNV
N-NITROSOPIPERIDINE UG/L													15.0000		UNV
N-NITROSOPYRROLIDINE UG/L													15.0000		UNV
O-TOLUIDINE UG/L													15.0000		UNV
P-DIMETHYLAMINOAZOBENZENE UG/L													15.0000		UNV
P-PHENYLENEDIAMINE UG/L													15.0000		UNV
PENTACHLOROBENZENE UG/L													4.0000		UNV
PENTACHLOROETHANE UG/L													20.0000		UNV
PENTACHLORONITROBENZENE UG/L													4.0000		UNV
PHENACETIN UG/L													4.0000		UNV
PRONAMIDE UG/L													15.0000		UNV
SAFROLE UG/L													15.0000		UNV
TRANS-1,2-DICHLOROETHENE UG/L													1.0000		UNV
ORGANOPHOSPHORUS															

001802

9704

SAMPLE NUMBER:		GW930417-8			004899			004900			070006			EMGW_SYSGEN_343		
LAB:														NET		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DISULFOTON	UG/L													15.0000		UNV
FAMPHUR	UG/L													15.0000		UNV
METHYL PARATHION	UG/L													15.0000		UNV
PARATHION	UG/L													15.0000		UNV
PHORATE	UG/L													15.0000		UNV
THIONAZIN	UG/L													15.0000		UNV
PESTICIDES																
4,4'-DDD	UG/L													0.2000		UNV
4,4'-DDE	UG/L													0.2000		UNV
4,4'-DDT	UG/L													0.2000		UNV
ALDRIN	UG/L													0.2000		UNV
ALPHA-BHC	UG/L													0.2000		UNV
AROCLOR-1016	UG/L													0.2000		UNV
AROCLOR-1221	UG/L													0.2000		UNV
AROCLOR-1232	UG/L													0.2000		UNV
AROCLOR-1242	UG/L													0.2000		UNV
AROCLOR-1248	UG/L													0.2000		UNV
AROCLOR-1254	UG/L													0.2000		UNV
AROCLOR-1260	UG/L													0.2000		UNV
BETA-BHC	UG/L													0.2000		UNV
CHLORDANE	UG/L													0.2000		UNV
CHLOROBENZILATE	UG/L													15.0000		UNV
DELTA-BHC	UG/L													0.2000		UNV
DIELDRIN	UG/L													0.2000		UNV
ENDOSULFAN II	UG/L													0.2000		UNV
ENDOSULFAN SULFATE	UG/L													0.2000		UNV
ENDOSULFAN-I	UG/L													0.2000		UNV
ENDRIN	UG/L													0.2000		UNV
ENDRIN ALDEHYDE	UG/L													0.2000		UNV
GAMMA-BHC (LINDANE)	UG/L													0.2000		UNV
HEPTACHLOR	UG/L													0.2000		UNV
HEPTACHLOR EPOXIDE	UG/L													0.2000		UNV
SULFOTEP	UG/L													15.0000		UNV
TOXAPHENE	UG/L													0.2000		UNV
RADIONUCLIDES																
URANIUM-238	PCI/L	20.2	0002.8	J												
URANIUM, TOTAL	UG/L	72.9	0005.1	J				4.0000		NV	24.5000	3.5	-	43.3000		NV
URANIUM-234	PCI/L	17.5	0002.5	J												
THORIUM-230	PCI/L	24.6	0007.5	J												
RADIUM-226	PCI/L	16.1	0001.6	J												

SAMPLE NUMBER:	GW930417-8				004899			004900			070006			EMGW_SYSGEN_343		
LAB:	CORE															
SUFFIX/FILTERFLAG:	NONE-UNF				-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-235/236	PCI/L	0.2000	.3	UJ												
THORIUM-232	PCI/L	0.3000	.1	R												
RADIUM-228	PCI/L	6.2000	1.6	-												
THORIUM-228	PCI/L	0.7000	.2	UJ												
TECHNETIUM-99	PCI/L	15.0000	7.3	UJ												
GROSS ALPHA	PCI/L	86.8000	13.6	NV												
GROSS BETA	PCI/L	65.7000	10.1	NV												
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													4.0000		UNV
1,3-DICHLOROBENZENE	UG/L													4.0000		UNV
1,4-DICHLOROBENZENE	UG/L													4.0000		UNV
2,4,5-TRICHLOROPHENOL	UG/L													4.0000		UNV
2,4,6-TRICHLOROPHENOL	UG/L													4.0000		UNV
2,4-DICHLOROPHENOL	UG/L													4.0000		UNV
2,4-DIMETHYLPHENOL	UG/L													4.0000		UNV
2,4-DINITROPHENOL	UG/L													4.0000		UNV
2,4-DINITROTOLUENE	UG/L													15.0000		UNV
2,6-DINITROTOLUENE	UG/L													15.0000		UNV
2-CHLORONAPHTHALENE	UG/L													4.0000		UNV
2-CHLOROPHENOL	UG/L													4.0000		UNV
2-METHYLNAPHTHALENE	UG/L													4.0000		UNV
2-METHYLPHENOL	UG/L													4.0000		UNV
2-NITROANILINE	UG/L													15.0000		UNV
2-NITROPHENOL	UG/L													4.0000		UNV
3,3'-DICHLOROBENZIDINE	UG/L													15.0000		UNV
3-NITROANILINE	UG/L													15.0000		UNV
4,6-DINITRO-2-METHYLPHENOL	UG/L													4.0000		UNV
4-BROMOPHENYL PHENYL ETHER	UG/L													15.0000		UNV
4-CHLORO-3-METHYLPHENOL	UG/L													4.0000		UNV
4-CHLOROPHENYLPHENYL ETHER	UG/L													15.0000		UNV
4-NITROANILINE	UG/L													15.0000		UNV
4-NITROPHENOL	UG/L													4.0000		UNV
ACENAPHTHENE	UG/L													4.0000		UNV
ACENAPHTHYLENE	UG/L													4.0000		UNV
ANTHRACENE	UG/L													4.0000		UNV
BENZO(A)ANTHRACENE	UG/L													4.0000		UNV
BENZO(A)PYRENE	UG/L													4.0000		UNV
BENZO(B)FLUORANTHENE	UG/L													4.0000		UNV
BENZO(G,H,I)PERYLENE	UG/L													4.0000		UNV
BENZO(K)FLUORANTHENE	UG/L													4.0000		UNV
BENZYL ALCOHOL	UG/L													40.0000		UNV
BIS(2-CHLOROETHOXY)METHANE	UG/L													15.0000		UNV
BIS(2-CHLOROETHYL)ETHER	UG/L													15.0000		UNV

SAMPLE NUMBER:		GW930417-8			004899			004900			070006			EMGW_SYSGEN_343		
LAB:														NET		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													4.0000		UNV
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													4.0000		UNV
BUTYL BENZYL PHTHALATE	UG/L													4.0000		UNV
CHRYSENE	UG/L													4.0000		UNV
DI-N-BUTYL PHTHALATE	UG/L													4.0000		UNV
DI-N-OCTYL PHTHALATE	UG/L													4.0000		UNV
DIBENZO(A,H)ANTHRACENE	UG/L													4.0000		UNV
DIBENZOFURAN	UG/L													4.0000		UNV
DIETHYL PHTHALATE	UG/L													4.0000		UNV
DIMETHYL PHTHALATE	UG/L													4.0000		UNV
FLUORANTHENE	UG/L													4.0000		UNV
FLUORENE	UG/L													4.0000		UNV
HEXACHLOROBENZENE	UG/L													4.0000		UNV
HEXACHLOROBUTADIENE	UG/L													4.0000		UNV
HEXACHLOROCYCLOPENTADIENE	UG/L													4.0000		UNV
HEXACHLOROETHANE	UG/L													4.0000		UNV
INDENO(1,2,3-CD)PYRENE	UG/L													4.0000		UNV
ISOPHORONE	UG/L													4.0000		UNV
N-NITROSO-DI-N-PROPYLAMINE	UG/L													4.0000		UNV
N-NITROSODIMETHYLAMINE	UG/L													4.0000		UNV
N-NITROSODIPHENYLAMINE	UG/L													4.0000		UNV
NAPHTHALENE	UG/L													4.0000		UNV
NITROBENZENE	UG/L													4.0000		UNV
P-CHLOROANILINE	UG/L													4.0000		UNV
PENTACHLOROPHENOL	UG/L													4.0000		UNV
PHENANTHRENE	UG/L													4.0000		UNV
PHENOL	MG/L													4.0000		UNV
PYRENE	UG/L													4.0000		UNV
PYRIDINE	UG/L													4.0000		UNV
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L													1.0000		UNV
1,1,1-TRICHLOROETHANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
1,1,2-TRICHLOROETHANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
1,1-DICHLOROETHANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
1,1-DICHLOROETHENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
1,2-DICHLOROETHANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000		U	5.0000		U				5.0000		U			
1,2-DICHLOROPROPANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
2-BUTANONE	UG/L	10.0000		U	10.0000		U				10.0000		U	2.0000		UNV
2-HEXANONE	UG/L	10.0000		U	10.0000		U				10.0000		U	2.0000		UNV
4-METHYL-2-PENTANONE	UG/L	10.0000		U	10.0000		UJ				10.0000		U	2.0000		UNV
ACETONE	UG/L	10.0000		UJ	10.0000		U				10.0000		UJ	2.0000		UNV

SAMPLE NUMBER:	GW930417-8			004899			004900			070006			EMGW_SYSGEN_343		
LAB:	NET			IT						IT			NET		
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BENZENE	UG/L	2.0000		J	5.0000		U				5.0000		U	1.0000		UNV
BROMODICHLOROMETHANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
BROMOFORM	UG/L	10.0000		U	5.0000		UJ				5.0000		U	1.0000		UNV
BROMOMETHANE	UG/L	10.0000		U	10.0000		U				10.0000		UJ	1.0000		UNV
CARBON DISULFIDE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
CARBON TETRACHLORIDE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
CHLOROBENZENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
CHLOROETHANE	UG/L	10.0000		U	10.0000		U				10.0000		U	1.0000		UNV
CHLOROFORM	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
CHLOROMETHANE	UG/L	10.0000		U	10.0000		U				10.0000		U	1.0000		UNV
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
DIBROMOCHLOROMETHANE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
ETHYLBENZENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
METHYLENE CHLORIDE	UG/L	10.0000		U	5.0000		U				9.0000		U	1.0000		UNV
STYRENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
T-1,4-DICHLORO-2-BUTENE	UG/L													20.0000		UNV
TETRACHLOROETHENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
TOLUENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
TRICHLOROETHENE	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV
TRICHLOROFLUOROMETHANE	UG/L													1.0000		UNV
VINYL ACETATE	UG/L				10.0000		U				10.0000		U	2.0000		UNV
VINYL CHLORIDE	UG/L	10.0000		U	10.0000		U				10.0000		U	1.0000		UNV
XYLENES, TOTAL	UG/L	10.0000		U	5.0000		U				5.0000		U	1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	EMGW_SYSGEN_344	GW930125-11	GW930417-9	070007	070020
TASK:	GWMON	RCRA	50.03.23	50.03.04	50.03.04
LAB:	NET	NET	NET	IT	IT
WELL OR BORING NUMBER:	1645	1645	1645	1646	1646
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-OCT-91	25-JAN-93	17-APR-93	29-JAN-92	03-APR-92
NORTH COORDINATE:	481583.25	481583.25	481583.25	481743.08	481743.08
EAST COORDINATE:	1379060.26	1379060.26	1379060.26	1379094.86	1379094.86
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	389.0000		NV	402.0000		NV	404.0000		-	345.0000		-	363.0000		-
ALLYL CHLORIDE	UG/L				5.0000		UNV									
AMMONIA	MG/L	0.0900		NV	0.0700		NV	0.0400		UJ	0.1400		-	0.0001		-
BICARBONATE ALKALINITY	MG/L				451.0000		NV	586.0000		-						
CARBONATE ALKALINITY	MG/L				3.0000		UNV	3.0000		U						
CHLORIDE	MG/L	42.0000		NV	51.0000		NV	76.0000		-	35.5000		-	39.0000		-
FLUORIDE	MG/L	0.8800		NV	0.8600		NV	0.5300		-	0.8700		-	0.9000		-
NITRATE	MG/L				0.0900		NV				0.1000		U			
NITRATE, AS NITROGEN	MG/L	0.0400		NV												
NITRATE/NITRITE	MG/L							0.0200		U				0.1000		U
NITRITE, AS NITROGEN	MG/L				0.0200		UNV									
PH	STD	7.2000		NV	7.4000		NV	7.2400		-	7.5500		-	7.9300		J
PHENOLS	MG/L	0.0050		UNV	0.0100		UNV	0.0100		U	0.0100		U	0.0200		-
PHOSPHORUS	MG/L	0.3100		NV	0.1000		UNV	0.2300		J	0.4700		-	0.7070		J
SPECIFIC CONDUCTIVITY	UMHOS/CM	1160.0000		NV	1330.0000		NV	1170.0000		-	1318.0000		-	925.0000		-
SULFATE	MG/L	294.0000		NV	313.0000		NV	296.0000		J	372.0000		-	45.9000		J
TOTAL DISSOLVED SOLIDS	MG/L	818.0000		NV	863.0000		NV	881.0000		-	885.0000		-	926.0000		-
TOTAL KJELDAHL NITROGEN	MG/L							0.3000		-						
TOTAL ORGANIC CARBON	MG/L	24.0000		NV	11.0000		NV	16.0000		-	1.0000		U	1.0000		U
TOTAL ORGANIC HALIDES	MG/L				0.0100		UNV				0.0160		-	0.0140		-
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV				0.0100		U						
TOTAL ORGANIC NITROGEN	MG/L							0.2600		-						
TOTAL SOLIDS	MG/L				1120.0000		NV	1010.0000		-						
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	4.7700		NV	1.9200		J	6.5900		-	3.7700		J
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0786		-	0.0598		J	0.0300		UJ
ARSENIC	MG/L	0.0050		UNV	0.0050		UNV	0.0020		U	0.0020		UJ	0.0027		J
BARIUM	MG/L	0.2000		UNV	0.2600		NV	0.0363		-	0.0758		-	0.0475		-

SAMPLE NUMBER:		EMGW_SYSGEN_344		GW930125-11		GW930417-9		070007		070020	
LAB:		NET		NET		NET		IT/MWL		IT	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-FIL		U-UNF		U-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
BERYLLIUM	MG/L	0.0050	UNV	0.0050	UNV	0.0010	U	0.0020	U	0.0020	U
CADMIUM	MG/L	0.0010	UNV	0.0010	UNV	0.0030	U	0.0123	J	0.0020	U
CALCIUM	MG/L	160.0000	NV	166.0000	NV	157.0000	-	148.0000	J	138.0000	-
CHROMIUM	MG/L	0.0054	NV	0.0078	NV	0.0095	-	0.0612	-	0.0100	U
COBALT	MG/L	0.0050	UNV	0.0050	UNV	0.0121	-	0.0100	U	0.0100	U
COPPER	MG/L	0.0200	UNV	0.0200	UNV	0.0083	U	0.0612	-	0.0100	U
CYANIDE	MG/L	0.0050	UNV	0.0050	UNV	0.0100	UJ	0.0020	UJ	0.0020	U
IRON	MG/L	3.4500	NV	3.6700	NV	0.0857	UJ	12.4000	-	5.4600	-
LEAD	MG/L	0.0030	UNV	0.0030	UNV	0.0022	U	0.0061	J	0.0022	-
MAGNESIUM	MG/L	74.0000	NV	74.2000	NV	70.9000	-	86.0000	-	81.8000	-
MANGANESE	MG/L	0.1260	NV	0.1360	NV	0.0194	-	0.0122	-	0.0761	-
MERCURY	MG/L	0.0002	UNV	0.0002	UNV	0.0002	U	0.0002	U	0.0002	U
MOLYBDENUM	MG/L	0.0140	NV	0.0100	UNV			0.0295	-	0.0100	U
NICKEL	MG/L	0.0100	UNV	0.0100	UNV	0.0200	U	0.1020	-	0.0200	U
POTASSIUM	MG/L	2.5000	NV	3.1000	NV	2.0000	-	4.3200	-	3.2600	-
SELENIUM	MG/L	0.0050	UNV	0.0050	UNV	0.0010	UJ	0.0030	U	0.0030	UJ
SILVER	MG/L	0.0010	UNV	0.0010	UNV	0.0070	U	0.0360	R	0.0100	U
SODIUM	MG/L	16.3000	NV	18.0000	NV	17.8000	-	18.9000	-	17.5000	-
THALLIUM	MG/L	0.0100	UNV	0.0100	UNV	0.0020	UJ	0.0020	UJ	0.0020	UJ
VANADIUM	MG/L	0.0500	UNV	0.0500	UNV	0.0030	U	0.0218	-	0.0100	U
ZINC	MG/L	0.0200	NV	0.0200	UNV	0.0172	U	0.0114	-	0.0213	-
MISC											
1,2,3-TRICHLOROPROPANE	UG/L			5.0000	UNV						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L			2.0000	UNV						
1,2-DIBROMOETHANE	UG/L			2.0000	UNV						
2-CHLORO-1,3-BUTADIENE	UG/L			5.0000	UNV						
ACROLEIN	UG/L			50.0000	UNV						
ACROLEIN	UG/L			50.0000	UNV						
ACRYLONITRILE	UG/L			50.0000	UNV						
DICHLORODIFLUOROMETHANE	UG/L			10.0000	UNV						
ETHYL CYANIDE	UG/L			20.0000	UNV						
ETHYL METHACRYLATE	UG/L			5.0000	UNV						
IODOMETHANE	UG/L			5.0000	UNV						
METHACRYLONITRILE	UG/L			5.0000	UNV						
METHYL METHACRYLATE	UG/L			5.0000	UNV						
PENTACHLOROETHANE	UG/L			5.0000	UNV						
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L			20.0000	UNV						
RADIONUCLIDES											
URANIUM-238	PCI/L					7.3000 .7	J				
URANIUM, TOTAL	UG/L	18.0000	NV	20.1000	NV	28.0000	NV	640.0000 90	-	544.0000 67	-

SAMPLE NUMBER:		EMGW_SYSGEN_344			GW930125-11			GW930417-9			070007			070020		
LAB:		NET			NET			NET			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
METHYLENE CHLORIDE	UG/L	1.0000		UNV	10.0000		UNV	10.0000		U	7.0000		U	5.0000		U
STYRENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U	5.0000		U
TETRACHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U	5.0000		U
TOLUENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U	5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U	5.0000		U
TRICHLOROFLUOROMETHANE	UG/L				1.0000		UNV									
VINYL ACETATE	UG/L	2.0000		UNV	10.0000		UNV				10.0000		U	10.0000		U
VINYL CHLORIDE	UG/L	1.0000		UNV	5.0000		UNV	10.0000		U	10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	10.0000		U	5.0000		U	5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		EMGW_SYSGEN_347			EMGW_SYSGEN_348			GW930125-12			GW930417-10			004390		
TASK:		GWMON			GWMON			RCRA			50.03.23			3.2.4		
LAB:		NET			NET			NET			NET			IT		
WELL OR BORING NUMBER:		1646			1646			1646			1646			1675		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		24-JUL-91			23-OCT-91			25-JAN-93			17-APR-93			19-JUN-91		
NORTH COORDINATE:		481743.08			481743.08			481743.08			481743.08			481182.8		
EAST COORDINATE:		1379094.86			1379094.86			1379094.86			1379094.86			1381060.63		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L	5000.0000		UNV												
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	409.0000		NV	348.0000		NV	435.0000		NV	422.0000		-			
ALLYL CHLORIDE	UG/L	20.0000		UNV				5.0000		UNV						
AMMONIA	MG/L	0.0600		NV	0.0700		NV	0.0200		UNV	0.0200		UJ			
BICARBONATE ALKALINITY	MG/L							488.0000		NV	586.0000		-			
CARBONATE ALKALINITY	MG/L							3.0000		UNV	3.0000		U			
CHLORIDE	MG/L	52.0000		NV	30.0000		NV	48.0000		NV	49.0000		-	14.2000		-
FLUORIDE	MG/L	0.8600		NV	0.8700		NV	0.9000		NV	0.7800		-	0.8000		-
NITRATE	MG/L							0.1400		NV						
NITRATE, AS NITROGEN	MG/L	0.2400		NV	0.3800		NV									
NITRATE/NITRITE	MG/L										0.0200		U			
NITRITE, AS NITROGEN	MG/L							0.0200		UNV						
PH	STD	7.3000		NV	7.1000		NV	7.4900		NV	7.3300		-			
PHENOLS	MG/L	0.0050		UNV	0.0050		UNV	0.0100		UNV	0.0100		U	0.0100		UJ
PHOSPHORUS	MG/L	0.7000		NV	1.4700		NV	0.1000		UNV	0.1400		J			
SPECIFIC CONDUCTIVITY	UMHOS/CM	1280.0000		NV	1380.0000		NV	1380.0000		NV	1170.0000		-			
SULFATE	MG/L	291.0000		NV	470.0000		NV	328.0000		NV	273.0000		J	282.0000		R
SULFIDE	MG/L	0.2000		UNV												
TOTAL DISSOLVED SOLIDS	MG/L	892.0000		NV	1040.0000		NV	916.0000		NV	904.0000		-			
TOTAL KJELDAHL NITROGEN	MG/L										0.2700		-			
TOTAL ORGANIC CARBON	MG/L	13.0000		NV	20.0000		NV	12.0000		NV	16.0000		-			
TOTAL ORGANIC HALIDES	MG/L							0.0100		UNV						
TOTAL ORGANIC HALOGENS	MG/L	0.0100		UNV	0.0100		UNV				0.0100		U			
TOTAL ORGANIC NITROGEN	MG/L										0.2700		-			
TOTAL SOLIDS	MG/L							1030.0000		NV	937.0000		-			

001810

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

HERBICIDES																	
2,4,5-T	UG/L	0.5000	UNV														
06/21/94																	
SAMPLE NUMBER:		EMGW_SYSGEN_347		EMGW_SYSGEN_348			GW930125-12			GW930417-10			004390		
LAB:		NET													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
HERBICIDES																
2,4,5-TP (SILVEX)	UG/L	0.5000		UNV												
2,4-D	UG/L	1.0000		UNV												
INORGANICS																
ALUMINUM	MG/L	0.2000		UNV	18.6000		NV	3.7200		NV	0.0200		UJ			
ANTIMONY	MG/L	0.0200		UNV	0.0200		UNV	0.0200		UNV	0.0709		-			
ARSENIC	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0020		U			
BARIUM	MG/L	0.2000		UNV	0.2000		UNV	0.2500		NV	0.0366		-			
BERYLLIUM	MG/L	0.0500		UNV	0.0050		UNV	0.0050		UNV	0.0010		U			
CADMIUM	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0030		U			
CALCIUM	MG/L	152.0000		NV	270.0000		NV	158.0000		NV	147.0000		-			
CHROMIUM	MG/L	0.0237		NV	0.0381		NV	0.0024		NV	0.0050		U			
COBALT	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0107		-			
COPPER	MG/L	0.0200		NV	0.0530		NV	0.0200		UNV	0.0132		U			
CYANIDE	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0100		UJ			
IRON	MG/L	0.2600		NV	36.6000		NV	0.4200		NV	0.0408		UJ			
LEAD	MG/L	0.0050		UNV	0.0098		NV	0.0030		UNV	0.0014		U			
MAGNESIUM	MG/L	86.0000		NV	69.0000		NV	90.2000		NV	83.0000		-			
MANGANESE	MG/L	0.3600		NV	0.0440		NV	0.0190		NV	0.0039		U			
MERCURY	MG/L	0.0002		UNV	0.0002		UNV	0.0002		UNV	0.0002		U			
MOLYBDENUM	MG/L	0.0120		NV	0.1800		NV	0.0100		UNV						
NICKEL	MG/L	0.0140		NV	0.1050		NV	0.0100		UNV	0.0200		U			
POTASSIUM	MG/L	4.0000		NV	3.5000		NV	2.9000		NV	2.5600		-			
SELENIUM	MG/L	0.0050		UNV	0.0050		UNV	0.0050		UNV	0.0010		UJ			
SILVER	MG/L	0.0010		UNV	0.0010		UNV	0.0010		UNV	0.0070		U			
SODIUM	MG/L	19.2000		NV	22.9000		NV	20.0000		NV	18.7000		-			
THALLIUM	MG/L	0.0100		UNV	0.0100		UNV	0.0100		UNV	0.0020		UJ			
TIN	MG/L	2.0000		UNV												
VANADIUM	MG/L	0.0500		UNV	0.0500		UNV	0.0500		UNV	0.0030		U			
ZINC	MG/L	0.0490		NV	0.0900		NV	0.0200		UNV	0.0111		U			
MISC																
1,2,3-TRICHLOROPROPANE	UG/L	1.0000		UNV				5.0000		UNV						
1,2,4,5-TETRACHLOROBENZENE	UG/L	4.0000		UNV												
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	20.0000		UNV				2.0000		UNV						
1,2-DIBROMOETHANE	UG/L	20.0000		UNV				2.0000		UNV						
1,3,5-TRINITROBENZENE	UG/L	15.0000		UNV												
1,3-DINITROBENZENE	UG/L	15.0000		UNV												
1,4-NAPHTHOQUINONE	UG/L	15.0000		UNV												

SAMPLE NUMBER:		EMGW_SYSGEN_347		EMGW_SYSGEN_348		GW930125-12		GW930417-10		004390	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
MISC											
1-NAPHTHYLAMINE	UG/L	15.0000	UNV								
2,3,4,6-TETRACHLOROPHENOL	UG/L	4.0000	UNV								
2,6-DICHLOROPHENOL	UG/L	4.0000	UNV								
2-ACETYLAMINOFLUORENE	UG/L	15.0000	UNV								
2-CHLORO-1,3-BUTADIENE	UG/L	20.0000	UNV			5.0000	UNV				
2-NAPHTHYLAMINE	UG/L	4.0000	UNV								
2-PICOLINE	UG/L	15.0000	UNV								
3,3'-DIMETHYLBENZIDINE	UG/L	15.0000	UNV								
3-METHYLCHOLANTHRENE	UG/L	15.0000	UNV								
3-METHYLPHENOL	UG/L	4.0000	UNV								
4-AMINOBIPHENYL	UG/L	15.0000	UNV								
4-NITROQUINOLINE-1-OXIDE	UG/L	15.0000	UNV								
5-NITRO-O-TOLUIDINE	UG/L	15.0000	UNV								
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	15.0000	UNV								
A,A-DIMETHYLPHENETHYLAMINE	UG/L	15.0000	UNV								
ACETONITRILE	UG/L	1000.0000	UNV								
ACETOPHENONE	UG/L	15.0000	UNV								
ACROLEIN	UG/L	20.0000	UNV			50.0000	UNV				
ACROLEIN	UG/L	20.0000	UNV			50.0000	UNV				
ACRYLONITRILE	UG/L	20.0000	UNV			50.0000	UNV				
ANILINE	UG/L	4.0000	UNV								
ARAMITE	UG/L	15.0000	UNV								
DIALLATE	UG/L	15.0000	UNV								
DIBROMOMETHANE	UG/L	1.0000	UNV								
DICHLORODIFLUOROMETHANE	UG/L	1.0000	UNV			10.0000	UNV				
DINOSEB	UG/L	0.5000	UNV								
DIPHENYLAMINE	UG/L	15.0000	UNV								
ETHYL CYANIDE	UG/L	20.0000	UNV			20.0000	UNV				
ETHYL METHACRYLATE	UG/L	20.0000	UNV			5.0000	UNV				
ETHYL METHANESULFONATE	UG/L	15.0000	UNV								
HEXACHLOROPHENE	UG/L	4.0000	UNV								
HEXACHLOROPROPENE	UG/L	4.0000	UNV								
IODOMETHANE	UG/L	20.0000	UNV			5.0000	UNV				
ISODRIN	UG/L	4.0000	UNV								
ISOSAFROLE	UG/L	15.0000	UNV								
KEPONE	UG/L	4.0000	UNV								
METHACRYLONITRILE	UG/L	20.0000	UNV			5.0000	UNV				
METHAPYRILENE	UG/L	15.0000	UNV								
METHYL METHACRYLATE	UG/L	20.0000	UNV			5.0000	UNV				
METHYL METHANESULFONATE	UG/L	15.0000	UNV								
N-NITROSODI-N-BUTYLAMINE	UG/L	4.0000	UNV								
N-NITROSODIETHYLAMINE	UG/L	4.0000	UNV								
N-NITROSOMETHYLETHYLAMINE	UG/L	4.0000	UNV								
N-NITROSOMORPHOLINE	UG/L	15.0000	UNV								
N-NITROSOPIPERIDINE	UG/L	15.0000	UNV								

SAMPLE NUMBER:		EMGW_SYSGEN_347		EMGW_SYSGEN_348		GW930125-12		GW930417-10		004390	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
MISC											
N-NITROSOPYRROLIDINE	UG/L	15.0000	UNV								
O-TOLUIDINE	UG/L	15.0000	UNV								
P-DIMETHYLAMINOAZOBENZENE	UG/L	15.0000	UNV								
P-PHENYLENEDIAMINE	UG/L	15.0000	UNV								
PENTACHLOROBENZENE	UG/L	4.0000	UNV								
PENTACHLOROETHANE	UG/L	20.0000	UNV			5.0000	UNV				
PENTACHLORONITROBENZENE	UG/L	4.0000	UNV								
PHENACETIN	UG/L	4.0000	UNV								
PRONAMIDE	UG/L	15.0000	UNV								
SAFROLE	UG/L	15.0000	UNV								
TRANS-1,2-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV				
TRANS-1,4-DICHLORO-2-BUTENE	UG/L					20.0000	UNV				
ORGANOPHOSPHORUS											
DIMETHOATE	UG/L	15.0000	UNV								
DISULFOTON	UG/L	15.0000	UNV								
FAMPHUR	UG/L	15.0000	UNV								
METHYL PARATHION	UG/L	15.0000	UNV								
PARATHION	UG/L	15.0000	UNV								
PHORATE	UG/L	15.0000	UNV								
THIONAZIN	UG/L	15.0000	UNV								
PESTICIDES											
4,4'-DDD	UG/L	0.2000	UNV							0.1000	UJ
4,4'-DDE	UG/L	0.2000	UNV							0.1000	UJ
4,4'-DDT	UG/L	0.2000	UNV							0.1000	UJ
ALDRIN	UG/L	0.2000	UNV							0.0500	UJ
ALPHA-BHC	UG/L	0.2000	UNV							0.0500	UJ
ALPHA-CHLORDANE	UG/L									0.5000	UJ
AROCLOR-1016	UG/L	0.2000	UNV							0.5000	UJ
AROCLOR-1221	UG/L	0.2000	UNV							0.5000	UJ
AROCLOR-1232	UG/L	0.2000	UNV							0.5000	UJ
AROCLOR-1242	UG/L	0.2000	UNV							0.5000	UJ
AROCLOR-1248	UG/L	0.2000	UNV							0.5000	UJ
AROCLOR-1254	UG/L	0.2000	UNV							1.0000	UJ
AROCLOR-1260	UG/L	0.2000	UNV							1.0000	UJ
BETA-BHC	UG/L	0.2000	UNV							0.0500	UJ
CHLORDANE	UG/L	0.2000	UNV								
CHLOROBENZILATE	UG/L	15.0000	UNV								
DELTA-BHC	UG/L	0.2000	UNV							0.0500	UJ
DIELDRIN	UG/L	0.2000	UNV							0.1000	UJ
ENDOSULFAN II	UG/L	0.2000	UNV							0.1000	UJ
ENDOSULFAN SULFATE	UG/L	0.2000	UNV							0.1000	UJ

C01813

SAMPLE NUMBER:		EMGW_SYSGEN_347		EMGW_SYSGEN_348		GW930125-12			GW930417-10			004390	
LAB:		NET										IT	
SUFFIX/FILTERFLAG:		NONE-UNF		-		-			-			NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
PESTICIDES													
ENDOSULFAN-I	UG/L	0.2000	UNV									0.0500	UJ
ENDRIN	UG/L	0.2000	UNV									0.1000	UJ
ENDRIN ALDEHYDE	UG/L	0.2000	UNV										
ENDRIN KETONE	UG/L											0.1000	UJ
GAMMA-BHC (LINDANE)	UG/L	0.2000	UNV									0.0500	UJ
GAMMA-CHLORDANE	UG/L											0.5000	UJ
HEPTACHLOR	UG/L	0.2000	UNV									0.0500	UJ
HEPTACHLOR EPOXIDE	UG/L	0.2000	UNV									0.0500	UJ
METHOXYCHLOR	UG/L	0.2000	UNV									0.5000	UJ
SULFOTEP	UG/L	15.0000	UNV										
TOXAPHENE	UG/L	0.5000	UNV									1.0000	UJ
RADIONUCLIDES													
URANIUM-238	PCI/L								159.0000	57.6	J		
URANIUM, TOTAL	UG/L	1830.0000	NV	690.0000	NV	508.0000		NV	408.0000	28.6	-		
URANIUM-234	PCI/L								33.1000	12.9	J		
THORIUM-230	PCI/L					0.3000	.2	NV	0.2000	.1	UJ		
RADIUM-226	PCI/L					1.0000	.3	UNV	1.0000	.2	UJ		
URANIUM-235/236	PCI/L								1.6000	.9	J		
THORIUM-232	PCI/L					0.2000	.1	UNV	0.7000	.2	J		
THORIUM, TOTAL	UG/L					1.6000		NV	6.3840	.2	NV		
RADIUM-228	PCI/L					3.0000	1.2	UNV	3.0000	1.2	U		
THORIUM-228	PCI/L					0.3000	.2	NV	0.2000	.1	UJ		
TECHNETIUM-99	PCI/L								75.8000	11.2	-		
GROSS ALPHA	PCI/L					158.0000	12.6	NV	147.0000	11.6	NV		
GROSS BETA	PCI/L					140.0000	8	NV	139.0000	7.6	NV		
SEMIVOLATILES													
1,2,4-TRICHLOROBENZENE	UG/L	4.0000	UNV										
1,3-DICHLOROBENZENE	UG/L	4.0000	UNV										
1,4-DICHLOROBENZENE	UG/L	4.0000	UNV										
2,4,5-TRICHLOROPHENOL	UG/L	4.0000	UNV										
2,4,6-TRICHLOROPHENOL	UG/L	4.0000	UNV										
2,4-DICHLOROPHENOL	UG/L	4.0000	UNV										
2,4-DIMETHYLPHENOL	UG/L	4.0000	UNV										
2,4-DINITROPHENOL	UG/L	4.0000	UNV										
2,4-DINITROTOLUENE	UG/L	15.0000	UNV										
2,6-DINITROTOLUENE	UG/L	15.0000	UNV										
2-CHLOROETHYLVINYL ETHER	UG/L			10.0000	UNV	10.0000		UNV					
2-CHLORONAPHTHALENE	UG/L	4.0000	UNV										
2-CHLOROPHENOL	UG/L	4.0000	UNV										
2-METHYLNAPHTHALENE	UG/L	4.0000	UNV										
2-METHYLPHENOL	UG/L	4.0000	UNV										

001814

5704

SAMPLE NUMBER:		EMGW_SYSGEN_347		EMGW_SYSGEN_348		GW930125-12			GW930417-10			004390		
LAB:		NET												
SUFFIX/FILTERFLAG:		NONE-UNF		-		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
2-NITROANILINE	UG/L	15.0000	UNV											
2-NITROPHENOL	UG/L	4.0000	UNV											
3,3'-DICHLOROBENZIDINE	UG/L	15.0000	UNV											
3-NITROANILINE	UG/L	15.0000	UNV											
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.0000	UNV											
4-BROMOPHENYL PHENYL ETHER	UG/L	15.0000	UNV											
4-CHLORO-3-METHYLPHENOL	UG/L	4.0000	UNV											
4-CHLOROPHENYLPHENYL ETHER	UG/L	15.0000	UNV											
4-NITROANILINE	UG/L	15.0000	UNV											
4-NITROPHENOL	UG/L	4.0000	UNV											
ACENAPHTHENE	UG/L	4.0000	UNV											
ACENAPHTHYLENE	UG/L	4.0000	UNV											
ANTHRACENE	UG/L	4.0000	UNV											
BENZO(A)ANTHRACENE	UG/L	4.0000	UNV											
BENZO(A)PYRENE	UG/L	4.0000	UNV											
BENZO(B)FLUORANTHENE	UG/L	4.0000	UNV											
BENZO(G,H,I)PERYLENE	UG/L	4.0000	UNV											
BENZO(K)FLUORANTHENE	UG/L	4.0000	UNV											
BENZYL ALCOHOL	UG/L	40.0000	UNV											
BIS(2-CHLOROETHOXY)METHANE	UG/L	15.0000	UNV											
BIS(2-CHLOROETHYL)ETHER	UG/L	15.0000	UNV											
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	4.0000	UNV											
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4.0000	UNV											
BUTYL BENZYL PHTHALATE	UG/L	4.0000	UNV											
CHRYSENE	UG/L	4.0000	UNV											
CUMENE	UG/L					1.0000		UNV						
DI-N-BUTYL PHTHALATE	UG/L	4.0000	UNV											
DI-N-OCTYL PHTHALATE	UG/L	4.0000	UNV											
DIBENZO(A,H)ANTHRACENE	UG/L	4.0000	UNV											
DIBENZOFURAN	UG/L	4.0000	UNV											
DIETHYL PHTHALATE	UG/L	4.0000	UNV											
DIMETHYL PHTHALATE	UG/L	4.0000	UNV											
FLUORANTHENE	UG/L	4.0000	UNV											
FLUORENE	UG/L	4.0000	UNV											
HEXACHLOROBENZENE	UG/L	4.0000	UNV											
HEXACHLOROBUTADIENE	UG/L	4.0000	UNV											
HEXACHLOROCYCLOPENTADIENE	UG/L	4.0000	UNV											
HEXACHLOROETHANE	UG/L	4.0000	UNV											
INDENO(1,2,3-CD)PYRENE	UG/L	4.0000	UNV											
ISOPHORONE	UG/L	4.0000	UNV											
N-NITROSO-DI-N-PROPYLAMINE	UG/L	4.0000	UNV											
N-NITROSODIMETHYLAMINE	UG/L	4.0000	UNV											
N-NITROSODIPHENYLAMINE	UG/L	4.0000	UNV											
NAPHTHALENE	UG/L	4.0000	UNV											
NITROBENZENE	UG/L	4.0000	UNV											

001845

SAMPLE NUMBER:		EMGW_SYSGEN_347		EMGW_SYSGEN_348		GW930125-12		GW930417-10		004390	
LAB:		NET									
SUFFIX/FILTERFLAG:		NONE-UNF		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
P-CHLOROANILINE	UG/L	4.0000	UNV								
PENTACHLOROPHENOL	UG/L	4.0000	UNV								
PHENANTHRENE	UG/L	4.0000	UNV								
PHENOL	MG/L	4.0000	UNV								
PYRENE	UG/L	4.0000	UNV								
PYRIDINE	UG/L	4.0000	UNV								
VOLATILES											
1,1,1,2-TETRACHLOROETHANE	UG/L	1.0000	UNV			1.0000	UNV				
1,1,1-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
1,1,2-TRICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
1,1-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
1,1-DICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
1,2-DICHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
1,2-DICHLOROETHENE (TOTAL)	UG/L			1.0000	UNV			10.0000	U		
1,2-DICHLOROPROPANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
2-BUTANONE	UG/L	2.0000	UNV	2.0000	UNV	10.0000	UNV	10.0000	U		
2-HEXANONE	UG/L	2.0000	UNV	2.0000	UNV	10.0000	UNV	10.0000	U		
4-METHYL-2-PENTANONE	UG/L	2.0000	UNV	2.0000	UNV	10.0000	UNV	10.0000	U		
ACETONE	UG/L	2.0000	UNV	2.0000	UNV	10.0000	UNV	10.0000	UJ		
BENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
BROMODICHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
BROMOFORM	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
BROMOMETHANE	UG/L	1.0000	UNV	1.0000	UNV	5.0000	UNV	10.0000	U		
CARBON DISULFIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
CARBON TETRACHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
CHLOROBENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
CHLOROETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	U		
CHLOROFORM	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
CHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	U		
CIS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
DIBROMOCHLOROMETHANE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
ETHYLBENZENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
ISOBUTYL ALCOHOL	UG/L	3000.0000	UNV								
METHYLENE CHLORIDE	UG/L	1.0000	UNV	1.0000	UNV	10.0000	UNV	10.0000	U		
STYRENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
T-1,4-DICHLORO-2-BUTENE	UG/L	20.0000	UNV								
TETRACHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TOLUENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRICHLOROETHENE	UG/L	1.0000	UNV	1.0000	UNV	1.0000	UNV	10.0000	U		
TRICHLOROFLUOROMETHANE	UG/L	1.0000	UNV			1.0000	UNV				
VINYL ACETATE	UG/L	2.0000	UNV	2.0000	UNV	10.0000	UNV				

SAMPLE NUMBER:	EMGW_SYSGEN_347			EMGW_SYSGEN_348			GW930125-12			GW930417-10			004390		
LAB:	NET			NET			NET								
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
VINYL CHLORIDE	UG/L	1.0000		UNV	1.0000		UNV	5.0000		UNV	10.0000		U			
XYLENES, TOTAL	UG/L	1.0000		UNV	1.0000		UNV	1.0000		UNV	10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		004391			004393			GW930515-8			004389			004392		
TASK:		3.2.4			3.2.4			50.03.23			3.2.4			3.2.4		
LAB:		IT			IT			NET			IT			IT		
WELL OR BORING NUMBER:		1675			1675			1675			1676			1676		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		25-JUN-91			26-JUN-91			15-MAY-93			19-JUN-91			25-JUN-91		
NORTH COORDINATE:		481182.8			481182.8			481182.8			481187.51			481187.51		
EAST COORDINATE:		1381060.63			1381060.63			1381060.63			1380979.41			1380979.41		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			F-FIL			NONE-UNF			NONE-UNF			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							420.0000		-						
AMMONIA	MG/L				0.1000		UJ	0.0400		U	0.1000		U			
BICARBONATE ALKALINITY	MG/L							543.0000		-						
CARBONATE ALKALINITY	MG/L							3.0000		U						
CHLORIDE	MG/L				13.0000		J	13.0000		-						
FLUORIDE	MG/L				0.7200		J	0.5600		-						
NITRATE	MG/L				136.0000		J									
NITRATE/NITRITE	MG/L							0.0200		U						
PH	STD							7.1500		-						
PHENOLS	MG/L							0.0100		U	0.0100		UJ			
PHOSPHORUS	MG/L				0.1400		J	0.1000		-						
SPECIFIC CONDUCTIVITY	UMHOS/CM							1170.0000		-						
SULFATE	MG/L				271.0000		R	339.0000		J						
SULFIDE	MG/L				0.5000		UJ									
TOTAL DISSOLVED SOLIDS	MG/L							905.0000		-						
TOTAL KJELDAHL NITROGEN	MG/L							0.1700		-						
TOTAL ORGANIC CARBON	MG/L				3.2600		J	2.0000		-						
TOTAL ORGANIC HALIDES	MG/L				0.0100		R				0.0100		UR			
TOTAL ORGANIC HALOGENS	MG/L							0.0100		U						
TOTAL ORGANIC NITROGEN	MG/L				0.1000		UJ	0.1300		-	0.1000		U			
TOTAL SOLIDS	MG/L							934.0000		-						
INORGANICS																
ALUMINUM	MG/L				0.1540		J	0.4500		-						
ANTIMONY	MG/L				0.1030		J	0.0450		UJ						
ARSENIC	MG/L				0.0020		UJ	0.0020		U						
BARIUM	MG/L				0.0563		R	0.0390		-						
BERYLLIUM	MG/L				0.0020		U	0.0010		U						
CADMIUM	MG/L				0.0116		-	0.0030		U						

001818

5704

SAMPLE NUMBER:	004391			004393			GW930515-8			004389			004392		
LAB:				IT			NET								
SUFFIX/FILTERFLAG:	-			F-FIL			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
CALCIUM MG/L				163.0000		-	13.5000		-						
CHROMIUM MG/L				0.0404		J	0.0114		J						
COBALT MG/L				0.0107		-	0.0080		U						
COPPER MG/L				0.0145		-	0.0390		-						
CYANIDE MG/L				0.0320		-	0.0100		U	0.0100		U			
IRON MG/L				4.6000		J	1.3200		-						
LEAD MG/L				0.0140		J	0.0127		-						
MAGNESIUM MG/L				82.6000		-	69.6000		-						
MANGANESE MG/L				0.3940		-	0.1710		J						
MERCURY MG/L	0.0002		U	0.0002		U	0.0002		U				0.0002		U
MOLYBDENUM MG/L				0.0284		J									
NICKEL MG/L				0.0545		-	0.0264		-						
POTASSIUM MG/L				6.8900		J	2.8100		-						
SELENIUM MG/L				0.0020		UJ	0.0021		J						
SILICON MG/L				7.3300		J									
SILVER MG/L				0.0340		J	0.0070		U						
SODIUM MG/L				10.4000		J	10.2000		-						
THALLIUM MG/L				0.0020		R	0.0020		U						
VANADIUM MG/L				0.0219		J	0.0030		U						
ZINC MG/L				0.0220		-	0.0626		-						
RADIONUCLIDES															
URANIUM-238 PCI/L							2.2000	.1	J						
URANIUM, TOTAL UG/L							6.7000	.5	J						
URANIUM-234 PCI/L							2.8000	.5	J						
THORIUM-230 PCI/L							0.3000	.2	UJ						
RADIUM-226 PCI/L							1.0000	.1	U						
URANIUM-235/236 PCI/L							0.2000	.5	UJ						
THORIUM-232 PCI/L							0.5000	.2	J						
THORIUM, TOTAL UG/L							4.5601	.2	NV						
RADIUM-228 PCI/L							3.0000	.7	U						
THORIUM-228 PCI/L							0.3000	.1	UJ						
TECHNETIUM-99 PCI/L							15.0000	8.7	UJ						
GROSS ALPHA PCI/L							6.6000	3.7	UNV						
GROSS BETA PCI/L							7.8000	4.5	UNV						
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L							10.0000		UJ						
1,1,2,2-TETRACHLOROETHANE UG/L							10.0000		U						
1,1,2-TRICHLOROETHANE UG/L							10.0000		U						
1,1-DICHLOROETHANE UG/L							10.0000		U						
1,1-DICHLOROETHENE UG/L							10.0000		U						
1,2-DICHLOROETHANE UG/L							10.0000		U						

001819

SAMPLE NUMBER:		004391			004393			GW930515-8			004389			004392		
LAB:								NET								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHENE (TOTAL)	UG/L							10.0000		U						
1,2-DICHLOROPROPANE	UG/L							10.0000		U						
2-BUTANONE	UG/L							10.0000		U						
2-HEXANONE	UG/L							10.0000		U						
4-METHYL-2-PENTANONE	UG/L							10.0000		U						
ACETONE	UG/L							10.0000		U						
BENZENE	UG/L							10.0000		U						
BROMODICHLOROMETHANE	UG/L							10.0000		U						
BROMOFORM	UG/L							10.0000		U						
BROMOMETHANE	UG/L							10.0000		U						
CARBON DISULFIDE	UG/L							10.0000		U						
CARBON TETRACHLORIDE	UG/L							10.0000		UJ						
CHLOROBENZENE	UG/L							10.0000		U						
CHLOROETHANE	UG/L							10.0000		U						
CHLOROFORM	UG/L							10.0000		U						
CHLOROMETHANE	UG/L							10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
DIBROMOCHLOROMETHANE	UG/L							10.0000		U						
ETHYLBENZENE	UG/L							10.0000		U						
METHYLENE CHLORIDE	UG/L							10.0000		U						
STYRENE	UG/L							10.0000		U						
TETRACHLOROETHENE	UG/L							10.0000		U						
TOLUENE	UG/L							10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							10.0000		U						
TRICHLOROETHENE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	004394	GW930512-10	118677	118679	118680
TASK:	3.2.4	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	IT	LOCKHEED	DATACHEM	FERMCO	CORE
WELL OR BORING NUMBER:	1676	1676	1685	1685	1685
DEPTH:	-	-	-	-	-
DATE COLLECTED:	26-JUN-91	12-MAY-93	05-AUG-93	05-AUG-93	05-AUG-93
NORTH COORDINATE:	481187.51	481187.51	478498.46	478498.46	478498.46
EAST COORDINATE:	1380979.41	1380979.41	1380433.06	1380433.06	1380433.06
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				480.0000		-									
AMMONIA	MG/L				0.1600		-									
BICARBONATE ALKALINITY	MG/L				480.0000		-									
CARBONATE ALKALINITY	MG/L				30.0000		U									
CHLORIDE	MG/L	10.9000		J	34.0000		-									
FLUORIDE	MG/L	0.1000		UJ	0.7500		-									
NITRATE	MG/L	108.0000		J												
NITRATE/NITRITE	MG/L				0.0500		U									
PH	STD				7.3000		-									
PHENOLS	MG/L				0.1500		U									
PHOSPHORUS	MG/L				0.7900		-									
SPECIFIC CONDUCTIVITY	UMHOS/CM				1300.0000		-									
SULFATE	MG/L	197.0000		R	250.0000		-									
SULFIDE	MG/L	0.5000		UJ												
TOTAL DISSOLVED SOLIDS	MG/L				880.0000		-									
TOTAL ORGANIC CARBON	MG/L	3.2800		J	10.0000		U									
TOTAL ORGANIC HALIDES	MG/L				0.0450		U									
TOTAL ORGANIC NITROGEN	MG/L				0.6030		-									
TOTAL SOLIDS	MG/L				1200.0000		-									
INORGANICS																
ALUMINUM	MG/L	0.6200		J	4.9500		-									
ANTIMONY	MG/L	0.0716		J	0.0270		U									
ARSENIC	MG/L	0.0020		UJ	0.0020		U									
BARIUM	MG/L	0.0566		R	0.0367		-									
BERYLLIUM	MG/L	0.0020		U	0.0010		U									
CADMIUM	MG/L	0.0116		-	0.0024		UJ									
CALCIUM	MG/L	138.0000		-	140.0000		-									
CHROMIUM	MG/L	0.0381		J	0.0140		U									

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1345

SAMPLE NUMBER:		004394		GW930512-10		118677		118679		118680	
LAB:		IT		LOCKHEED							
SUFFIX/FILTERFLAG:		F-FIL		NONE-UNF		-		-		-	
		RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT	VAL QUAL(1)
INORGANICS											
COBALT	MG/L	0.0102	-	0.0050	U						
COPPER	MG/L	0.0163	-	0.0030	U						
CYANIDE	MG/L			0.0200	UJ						
IRON	MG/L	0.0492	J	0.0104	-						
LEAD	MG/L	0.0020	U	0.0020	U						
MAGNESIUM	MG/L	73.9000	-	79.3000	-						
MANGANESE	MG/L	0.2100	-	0.4990	-						
MERCURY	MG/L	0.0002	U	0.0002	U						
MOLYBDENUM	MG/L	0.0242	J	0.0110	U						
NICKEL	MG/L	0.0365	-	0.0110	U						
POTASSIUM	MG/L	6.0000	J	6.9100	-						
SELENIUM	MG/L	0.0100	UJ	0.0010	UJ						
SILICON	MG/L	7.7500	J								
SILVER	MG/L	0.0304	J	0.0040	U						
SODIUM	MG/L	32.8000	-	47.7000	-						
THALLIUM	MG/L	0.0020	R	0.0030	U						
VANADIUM	MG/L	0.0223	J	0.0054	-						
ZINC	MG/L	0.0196	-	0.0030	U						
RADIONUCLIDES											
URANIUM-238	PCI/L			8.1000	1.5 -					1.6000	.4 J
URANIUM, TOTAL	UG/L			26.4000	1.8 -					8.4000	.6 -
URANIUM-234	PCI/L			9.0000	1.6 -					2.0000	.9 J
THORIUM-230	PCI/L			0.6000	.2 J					0.1000	.2 R
RADIUM-226	PCI/L			1.0000	.3 U					1.0000	.4 U
URANIUM-235/236	PCI/L			0.2000	.5 UJ					0.2000	.6 UJ
THORIUM-232	PCI/L			0.3000	.1 J					0.1000	.2 R
THORIUM, TOTAL	UG/L			5.4720	.2 NV						
RADIUM-228	PCI/L			3.0000	1.1 U					3.0000	1.1 U
THORIUM-228	PCI/L			0.3000	.1 UJ					0.1000	.3 R
TECHNETIUM-99	PCI/L			32.2000	11 J						
GROSS ALPHA	PCI/L			41.7000	26.2 UNV			240.0000	UNV		
GROSS BETA	PCI/L			41.9000	25.2 UNV			460.0000	UNV		
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L			10.0000	U	10.0000	U				
1,1,2,2-TETRACHLOROETHANE	UG/L			10.0000	UJ	10.0000	U				
1,1,2-TRICHLOROETHANE	UG/L			10.0000	U	10.0000	U				
1,1-DICHLOROETHANE	UG/L			10.0000	U	10.0000	U				
1,1-DICHLOROETHENE	UG/L			10.0000	U	10.0000	U				
1,2-DICHLOROETHANE	UG/L			10.0000	U	10.0000	U				
1,2-DICHLOROETHENE (TOTAL)	UG/L			10.0000	U	10.0000	U				
1,2-DICHLOROPROPANE	UG/L			10.0000	U	10.0000	U				

001822

5704

SAMPLE NUMBER:	004394	GW930512-10	118677	118679	118680
LAB:		LOCKHEED	DATACHEM		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
2-BUTANONE	UG/L				10.0000		U	10.0000		U						
2-HEXANONE	UG/L				10.0000		UJ	10.0000		U						
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ	10.0000		U						
ACETONE	UG/L				10.0000		UJ	10.0000		UJ						
BENZENE	UG/L				10.0000		U	10.0000		U						
BROMODICHLOROMETHANE	UG/L				10.0000		U	10.0000		U						
BROMOFORM	UG/L				10.0000		U	10.0000		U						
BROMOMETHANE	UG/L				10.0000		U	10.0000		U						
CARBON DISULFIDE	UG/L				10.0000		U	10.0000		U						
CARBON TETRACHLORIDE	UG/L				10.0000		U	10.0000		U						
CHLOROBENZENE	UG/L				10.0000		U	10.0000		U						
CHLOROETHANE	UG/L				10.0000		U	10.0000		U						
CHLOROFORM	UG/L				10.0000		U	10.0000		U						
CHLOROMETHANE	UG/L				10.0000		U	10.0000		U						
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		U						
DIBROMOCHLOROMETHANE	UG/L				10.0000		U	10.0000		U						
ETHYLBENZENE	UG/L				10.0000		U	10.0000		U						
METHYLENE CHLORIDE	UG/L				10.0000		U	10.0000		U						
STYRENE	UG/L				10.0000		U	10.0000		U						
TETRACHLOROETHENE	UG/L				10.0000		U	10.0000		U						
TOLUENE	UG/L				10.0000		U	10.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		U						
TRICHLOROETHENE	UG/L				10.0000		U	10.0000		U						
VINYL CHLORIDE	UG/L				10.0000		U	10.0000		U						
XYLENES, TOTAL	UG/L				10.0000		U	10.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	047005	047009	047006	GW930707-2	120278
TASK:	20.03.01	20.03.01	20.03.01	50.03.23	50.03.23
LAB:	IT/MWL	IT	IT	TCT	DATACHEM
WELL OR BORING NUMBER:	1711	1711	1719	1719	1728
DEPTH:	-	-	-	-	-
DATE COLLECTED:	11-JUN-92	19-JUN-92	09-JUN-92	07-JUL-93	24-JUL-93
NORTH COORDINATE:	478126.52	478126.52	482215.57	482215.57	483308.25
EAST COORDINATE:	1378968.88	1378968.88	1379699.18	1379699.18	1377966.74
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	F-FIL	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							535.0000		J	430.0000		-			
AMMONIA	MG/L							0.3000		-	0.2390		-			
CHLORIDE	MG/L							25.2000		J	3.6900		-			
FLUORIDE	MG/L							0.5600		J	0.6900		-			
NITRATE/NITRITE	MG/L							0.1000		U	0.0585		-			
PH	STD							7.2900		-						
PHENOLS	MG/L							0.0100		U						
PHOSPHATE	MG/L										0.1300		R			
PHOSPHORUS	MG/L							0.0500		-						
SULFATE	MG/L							296.2000		J	583.0000		-			
SULFIDE	MG/L							0.5000		U						
TOTAL KJELDAHL NITROGEN	MG/L										0.3620		-			
TOTAL ORGANIC CARBON	MG/L							7.3400		-						
TOTAL ORGANIC HALIDES	MG/L							0.0612		-						
TOTAL ORGANIC NITROGEN	MG/L							0.1000		UJ	0.1230		-			
INORGANICS																
ALUMINUM	MG/L	0.0516		-	0.0300		U	0.0300		U	18.0000		J	183.0000		-
ANTIMONY	MG/L	0.0300		UJ	0.0300		UJ	0.0300		UJ	0.0140		U	0.0450		R
ARSENIC	MG/L	0.0500		UJ	0.0500		UJ	0.0500		UJ	0.0020		UJ	0.0228		-
BARIUM	MG/L	0.1540		-	0.1330		-	0.1160		-	0.1180		-	1.0800		-
BERYLLIUM	MG/L	0.0020		U	0.0020		U	0.0020		U	0.0149		R	0.0095		-
CADMIUM	MG/L	0.0050		UJ	0.0050		U	0.0050		UJ	0.0055		-	0.0030		U
CALCIUM	MG/L	233.0000		-	213.0000		-	114.0000		-	696.0000		-	469.0000		J
CHROMIUM	MG/L	0.0100		U	0.0100		U	0.0100		U	0.0200		J	0.2830		J
COBALT	MG/L	0.0275		-	0.0733		-	0.0100		U	0.0370		-	0.1680		-
COPPER	MG/L	0.0100		U	0.0100		U	0.0100		U	0.0741		-	0.3520		-
CYANIDE	MG/L										0.0050		U			
IRON	MG/L	11.3000		-	25.5000		-	1.1500		-	63.3000		-	358.0000		J

001824

5704

SAMPLE NUMBER:		047005		047009		047006		GW930707-2		120278	
LAB:		IT/MWL		IT		IT		TCT		DATACHEM	
SUFFIX/FILTERFLAG:		F-FIL		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
LEAD	MG/L	0.0400	UJ	0.0400	UJ	0.0400	UJ	0.0869	J	0.1290	-
MAGNESIUM	MG/L	49.4000	-	44.3000	-	82.4000	-	218.0000	-	487.0000	-
MANGANESE	MG/L	3.7600	-	3.8500	-	0.2380	-	3.6000	-	7.4800	J
MERCURY	MG/L	0.0002	U	0.0002	U	0.0002	U	0.0003	U	0.0002	U
MOLYBDENUM	MG/L	0.0878	-	0.1470	-	0.0377	-	0.0170	UJ		
NICKEL	MG/L	2.4300	-	1.0200	-	0.1330	-	0.0669	J	0.4420	-
POTASSIUM	MG/L	34.0000	-	23.1000	-	1.5400	-	6.9200	J	32.8000	-
SELENIUM	MG/L	0.0800	UJ	0.0800	UJ	0.0800	UJ	0.0050	UR	0.0200	UJ
SILICON	MG/L	19.2000	-	20.1000	-	7.5500	-	20.5000	J		
SILVER	MG/L	0.0100	UJ	0.0100	UJ	0.0100	UJ	0.0020	U	0.0030	U
SODIUM	MG/L	59.5000	-	39.1000	-	37.5000	-	79.0000	-	29.2000	-
THALLIUM	MG/L	0.4220	J	0.4350	J	0.3370	J	0.0050	UJ	0.0010	J
VANADIUM	MG/L	0.0100	U	0.0100	U	0.0100	U	0.1040	-	0.2770	J
ZINC	MG/L	0.0119	-	0.0138	-	0.0087	-	0.1560	-	0.9110	J
RADIONUCLIDES											
URANIUM-238	PCI/L							1.0000 .3	J		
URANIUM, TOTAL	UG/L			555.0000	NV	2390.0000 330	NV	2.6000 .2	-		
URANIUM-234	PCI/L							2.1000 .4	J		
THORIUM-230	PCI/L							0.2000 .2	UJ		
RADIUM-226	PCI/L							1.0000 .3	UJ		
URANIUM-235/236	PCI/L							0.2000 .5	UJ		
THORIUM-232	PCI/L							0.2000 .4	U		
THORIUM, TOTAL	UG/L							0.9120 .4	NV		
RADIUM-228	PCI/L							3.0000 1.3	U		
THORIUM-228	PCI/L							0.2000 .4	U		
TECHNETIUM-99	PCI/L							15.0000 5.6	U		
GROSS ALPHA	PCI/L							390.0000	UNV		
GROSS BETA	PCI/L							470.0000	UNV		
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L					5.0000	U	10.0000	U		
1,1,2,2-TETRACHLOROETHANE	UG/L					5.0000	U	10.0000	U		
1,1,2-TRICHLOROETHANE	UG/L					5.0000	U	10.0000	U		
1,1-DICHLOROETHANE	UG/L					5.0000	U	10.0000	U		
1,1-DICHLOROETHENE	UG/L					5.0000	U	10.0000	U		
1,2-DICHLOROETHANE	UG/L					5.0000	U	10.0000	U		
1,2-DICHLOROETHENE (TOTAL)	UG/L					5.0000	U	10.0000	U		
1,2-DICHLOROPROPANE	UG/L					5.0000	U	10.0000	U		
2-BUTANONE	UG/L					10.0000	U	10.0000	UJ		
2-HEXANONE	UG/L					10.0000	U	10.0000	UJ		
4-METHYL-2-PENTANONE	UG/L					10.0000	U	10.0000	UJ		
ACETONE	UG/L					10.0000	U	13.0000	J		

001825

SAMPLE NUMBER:	047005	047009	047006	GW930707-2	120278
LAB:			IT	TCT	
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BENZENE	UG/L							5.0000		U	10.0000		U			
BROMODICHLOROMETHANE	UG/L							5.0000		U	10.0000		U			
BROMOFORM	UG/L							5.0000		U	10.0000		U			
BROMOMETHANE	UG/L							10.0000		UJ	10.0000		U			
CARBON DISULFIDE	UG/L							5.0000		U	10.0000		U			
CARBON TETRACHLORIDE	UG/L							5.0000		U	10.0000		U			
CHLOROBENZENE	UG/L							5.0000		U	10.0000		U			
CHLOROETHANE	UG/L							10.0000		U	10.0000		U			
CHLOROFORM	UG/L							5.0000		U	10.0000		U			
CHLOROMETHANE	UG/L							10.0000		U	10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L							5.0000		U	10.0000		U			
DIBROMOCHLOROMETHANE	UG/L							5.0000		U	10.0000		U			
ETHYLBENZENE	UG/L							5.0000		U	10.0000		U			
METHYLENE CHLORIDE	UG/L							5.0000		U	10.0000		U			
STYRENE	UG/L							5.0000		U	10.0000		U			
TETRACHLOROETHENE	UG/L							5.0000		U	10.0000		U			
TOLUENE	UG/L							5.0000		U	10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L							5.0000		U	10.0000		U			
TRICHLOROETHENE	UG/L							5.0000		U	8.0000		J			
VINYL ACETATE	UG/L							10.0000		U	10.0000		UJ			
VINYL CHLORIDE	UG/L							10.0000		U	10.0000		U			
XYLENES, TOTAL	UG/L							5.0000		U	10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120279	120602	118525	120276	120277
TASK:	50.03.23	50.03.23	50.03.23	50.03.23	50.03.23
LAB:	CORE	CORE	FERMCO	DATACHEM	CORE
WELL OR BORING NUMBER:	1728	1728	1733	1733	1733
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-JUL-93	30-JUL-93	28-MAY-93	24-JUL-93	24-JUL-93
NORTH COORDINATE:	483308.25	483308.25	477080.44	477080.44	477080.44
EAST COORDINATE:	1377966.74	1377966.74	1383156.49	1383156.49	1383156.49
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L										0.8260		-			
ANTIMONY	MG/L										0.0450		R			
ARSENIC	MG/L										0.0014		-			
BARIUM	MG/L										0.1550		-			
BERYLLIUM	MG/L										0.0016		U			
CADMIUM	MG/L										0.0030		U			
CALCIUM	MG/L										105.0000		J			
CHROMIUM	MG/L										0.0368		-			
COBALT	MG/L										0.0060		U			
COPPER	MG/L										0.0111		-			
IRON	MG/L										1.7500		J			
LEAD	MG/L										0.0014		J			
MAGNESIUM	MG/L										48.8000		-			
MANGANESE	MG/L										0.0421		-			
MERCURY	MG/L										0.0002		U			
NICKEL	MG/L										0.0330		-			
POTASSIUM	MG/L										2.6400		-			
SELENIUM	MG/L										0.0024		J			
SILVER	MG/L										0.0039		-			
SODIUM	MG/L										91.1000		-			
THALLIUM	MG/L										0.0010		U			
VANADIUM	MG/L										0.0047		-			
ZINC	MG/L										0.0202		-			
RADIONUCLIDES																
URANIUM-238	PCI/L	3.3000	.8	R	3.6000	1.7	J							1.6000	.5	J
URANIUM, TOTAL	UG/L	12.6000	.9	-	10.1000	.7	-	9.2000		UNV				4.4000	.3	-
URANIUM-234	PCI/L	3.9000	1.3	R	4.8000	.6	J							5.1000	.8	J
THORIUM-230	PCI/L	0.4000	.3	R	0.5000	.3	J							0.2000	.2	UJ

001827

SAMPLE NUMBER:		120279			120602			118525			120276			120277		
LAB:		CORE			CORE									CORE		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-226	PCI/L	3.3000	.6	-	2.1000	.6	-							1.0000		U
URANIUM-235/236	PCI/L	0.3000	.7	R	0.2000	.5	R							0.2000	.3	UJ
THORIUM-232	PCI/L	0.1000	.2	R	0.6000	.3	J							0.2000	.2	UJ
THORIUM, TOTAL	UG/L				5.4721	.3	NV							0.9120	.2	NV
RADIUM-228	PCI/L	3.0000	1.3	U	3.0000	1.1	U							3.0000		U
THORIUM-228	PCI/L	0.1000	.3	R	0.6000	.3	J							13.8000		UJ
TECHNETIUM-99	PCI/L	17.4000	6.2	-	15.0000	6.8	U							15.0000		U

001828

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120600	120600F	120601	063900	063903
TASK:	50.03.23	50.03.23	50.03.23	10.03.01	10.03.01
LAB:	DATACHEM	DATACHEM	CORE	IT	IT
WELL OR BORING NUMBER:	1733	1733	1733	1765	1765
DEPTH:	-	-	-	-	-
DATE COLLECTED:	30-JUL-93	30-JUL-93	30-JUL-93	26-AUG-91	26-AUG-91
NORTH COORDINATE:	477080.44	477080.44	477080.44	481377.7	481377.7
EAST COORDINATE:	1383156.49	1383156.49	1383156.49	1378289.96	1378289.96
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,4-DIOXANE	UG/L										64.9000		J			
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	430.0000		-												
AMMONIA	MG/L										0.4940		-			
CHLORIDE	MG/L	12.0000		-							5400.0000		-			
FLUORIDE	MG/L	0.5000		-							8.5500		-			
NITRATE	MG/L										82.4000		-			
NITRATE/NITRITE	MG/L	1.2000		J												
PHOSPHORUS	MG/L										0.4300		-			
SULFATE	MG/L	120.0000		-							2.0000		U			
SULFIDE	MG/L										1.0000		U			
TOTAL ORGANIC CARBON	MG/L										28.9000		-			
HERBICIDES																
2,4,5-T	UG/L										2.0000		U			
2,4,5-TP (SILVEX)	UG/L										1.8000		U			
2,4-D	UG/L										10.0000		U			
INORGANICS																
ALUMINUM	MG/L				0.0141		U				0.5080		-			
ANTIMONY	MG/L				0.0450		U				0.1110		J			
ARSENIC	MG/L				0.0010		U				0.0033		-			
BARIUM	MG/L				0.1580		-				2.0100		-			
BERYLLIUM	MG/L				0.0010		U				0.0032		-			
BORON	MG/L										0.2400		-			
CADMIUM	MG/L				0.0030		U				0.0200		U			

001829

SAMPLE NUMBER:		120600			120600F			120601			063900			063903		
LAB:					DATACHEM						IT					
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
CALCIUM	MG/L				97.0000		-				3040.0000		-			
CHROMIUM	MG/L				0.0118		U				0.1290		J			
COBALT	MG/L				0.0060		U				0.0241		J			
COPPER	MG/L				0.0134		U				0.0469		-			
CYANIDE	MG/L													0.3660		J
IRON	MG/L				0.0375		U				0.0941		-			
LEAD	MG/L				0.0014		-				0.0020		U			
MAGNESIUM	MG/L				47.4000		-				0.7380		-			
MANGANESE	MG/L				0.0110		U				0.0180		J			
MERCURY	MG/L				0.0002		U							0.0002		J
MOLYBDENUM	MG/L										0.0357		-			
NICKEL	MG/L				0.0190		U				0.0358		J			
POTASSIUM	MG/L				2.0600		-				296.0000		-			
SELENIUM	MG/L				0.0020		U				0.0134		-			
SILICON	MG/L										0.5750		-			
SILVER	MG/L				0.0030		U				0.1110		-			
SODIUM	MG/L				65.4000		-				631.0000		-			
THALLIUM	MG/L				0.0020		-				0.0200		UJ			
TIN	MG/L										0.2000		U			
VANADIUM	MG/L				0.0040		U				0.0725		J			
ZINC	MG/L				0.0132		-				0.0165		-			
MISC																
1,2,3-TRICHLOROPROPANE	UG/L										5.0000		U			
1,2-DIBROMO-3-CHLOROPROPANE	UG/L										10.0000		UJ			
1,2-DIBROMOETHANE	UG/L										5.0000		U			
2-CHLORO-1,3-BUTADIENE	UG/L										5.0000		UJ			
3-CHLOROPROPENE	UG/L										5.0000		UJ			
ACETONITRILE	UG/L										1000.0000		R			
ACROLEIN	UG/L										10.0000		R			
ACROLEIN	UG/L										10.0000		R			
ACRYLONITRILE	UG/L										10.0000		R			
DIBROMOMETHANE	UG/L										10.0000		U			
DICHLORODIFLUOROMETHANE	UG/L										200.0000		UJ			
DINOSEB	UG/L										0.7000		U			
ETHYL CYANIDE	UG/L										100.0000		R			
ETHYL METHACRYLATE	UG/L										10.0000		U			
IODOMETHANE	UG/L										5.0000		U			
ISODRIN	UG/L										0.0500		U			
KEPONE	UG/L										0.1000		U			
METHACRYLONITRILE	UG/L										10.0000		R			
METHYL METHACRYLATE	UG/L										10.0000		UJ			
TRANS-1,4-DICHLORO-2-BUTENE	UG/L										100.0000		U			

PESTICIDES														
4,4'-DDD	UG/L									0.1000		U		
06/21/94														

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1354

SAMPLE NUMBER:	120600			120600F			120601			063900			063903		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		U			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		U			
ALPHA-CHLORDANE	UG/L										0.5000		U			
AROCLOR-1016	UG/L										0.5000		U			
AROCLOR-1221	UG/L										0.5000		U			
AROCLOR-1232	UG/L										0.5000		U			
AROCLOR-1242	UG/L										0.5000		U			
AROCLOR-1248	UG/L										0.5000		UJ			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
CHLOROBENZILATE	UG/L										0.1000		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.1000		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.1000		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.5000		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										1.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L							1.2000	.8	R	3.7400	.78	J			
URANIUM, TOTAL	UG/L							2.3000	.2	J	5.0600	.55	-			
URANIUM-234	PCI/L							4.1000	.8	R	4.3200	.85	J			
THORIUM-230	PCI/L							0.2000	.2	UJ						
RADIUM-226	PCI/L							1.0000	.4	U						
URANIUM-235/236	PCI/L							0.1000	.1	R	1.0000		UJ			
THORIUM-232	PCI/L							0.2000	.2	UJ						
RADIUM-228	PCI/L							6.4000	1.6	-						
THORIUM-228	PCI/L							0.2000	.2	UJ						
NEPTUNIUM-237	PCI/L										1.0000		R			
PLUTONIUM-239/240	PCI/L										1.0000		U			

001831

SAMPLE NUMBER:	120600			120600F			120601			063900			063903		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
PLUTONIUM-238 PCI/L										1.0000		U			
STRONTIUM-90 PCI/L										5.0000		UJ			
TECHNETIUM-99 PCI/L							15.0000	7.6	U	30.0000		U			
RUTHENIUM-106 PCI/L										150.0000		R			
CESIUM-137 PCI/L										20.0000		R			
GROSS BETA PCI/L										319.0000	76	NV			
SEMIVOLATILES															
PYRIDINE UG/L										5000.0000		UJ			
VOLATILES															
1,1,1,2-TETRACHLOROETHANE UG/L										5.0000		U			
1,1,1-TRICHLOROETHANE UG/L										21.0000		-			
1,1,2,2-TETRACHLOROETHANE UG/L										5.0000		U			
1,1,2-TRICHLOROETHANE UG/L										5.0000		U			
1,1-DICHLOROETHANE UG/L										52.0000		-			
1,1-DICHLOROETHENE UG/L										15.0000		-			
1,2-DICHLOROETHANE UG/L										3.0000		J			
1,2-DICHLOROETHENE (TOTAL) UG/L										5.0000		U			
1,2-DICHLOROPROPANE UG/L										5.0000		U			
2-BUTANONE UG/L										17.0000		J			
2-HEXANONE UG/L										3.0000		J			
4-METHYL-2-PENTANONE UG/L										59.0000		-			
ACETONE UG/L										54.0000		R			
BENZENE UG/L										5.0000		UJ			
BROMODICHLOROMETHANE UG/L										5.0000		U			
BROMOFORM UG/L										5.0000		U			
BROMOMETHANE UG/L										10.0000		U			
CARBON DISULFIDE UG/L										5.0000		U			
CARBON TETRACHLORIDE UG/L										5.0000		U			
CHLOROBENZENE UG/L										5.0000		UJ			
CHLOROETHANE UG/L										10.0000		U			
CHLOROFORM UG/L										1.0000		J			
CHLOROMETHANE UG/L										10.0000		UJ			
CIS-1,3-DICHLOROPROPENE UG/L										5.0000		U			
DIBROMOCHLOROMETHANE UG/L										5.0000		U			
ETHYLBENZENE UG/L										4.0000		J			
ISOBUTYL ALCOHOL UG/L										3000.0000		R			
METHYLENE CHLORIDE UG/L										26.0000		U			
STYRENE UG/L										5.0000		UJ			
TETRACHLOROETHENE UG/L										5.0000		U			
TOLUENE UG/L										1.0000		J			
TRANS-1,3-DICHLOROPROPENE UG/L										5.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	063919	063921	063945	123025	063904
TASK:	10.03.01	10.03.01	10.03.01	10.03.08	10.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1765	1765	1765	1765	1766
DEPTH:	-	-	-	-	-
DATE COLLECTED:	31-OCT-91	31-OCT-91	14-NOV-91	24-JUN-93	28-AUG-91
NORTH COORDINATE:	481377.7	481377.7	481377.7	481377.7	481349.56
EAST COORDINATE:	1378289.96	1378289.96	1378289.96	1378289.96	1378240.51
QA TYPE:	NORMAL	DUPLICATE	NORMAL	NORMAL	NORMAL
QC OF:	063921	063919			
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-FIL	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
BROMIDE	MG/L							1.0000		U						
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L	3.4000		U	0.3900		U									
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L	1.0000		U	0.4600		U									
1,2,3,4,7,8,9-HEPTACHLORODIBEN	NG/L	0.8600		U	0.6500		U									
1,2,3,4,7,8-HEXACHLORODIBENZO-N	G/L	0.6600		U	1.2000		U									
1,2,3,4,7,8-HEXACHLORODIBENZOF	NG/L	1.3000		U	0.5500		U									
1,2,3,6,7,8-HEXACHLORODIBENZO-N	G/L	0.5200		U	0.9800		U									
1,2,3,6,7,8-HEXACHLORODIBENZOF	NG/L	1.1000		U	0.4800		U									
1,2,3,7,8,9-HEXACHLORODIBENZO-N	G/L	0.5500		U	1.0000		U									
1,2,3,7,8,9-HEXACHLORODIBENZOF	NG/L	1.5000		U	0.6300		U									
1,2,3,7,8-PENTACHLORODIBENZO-P	NG/L	0.5400		U	1.3000		U									
1,2,3,7,8-PENTACHLORODIBENZOFU	NG/L	0.6400		-	0.5100		U									
1,4-DIOXANE	UG/L	200.0000		U	60.0000		J	200.0000		R						
2,3,4,6,7,8-HEXACHLORODIBENZOF	NG/L	1.3000		U	0.5700		U									
2,3,4,7,8-PENTACHLORODIBENZOFU	NG/L	0.9100		-	0.5500		U									
2,3,7,8-TETRACHLORODIBENZO-P-D	NG/L	0.4900		U	0.1700		U									
2,3,7,8-TETRACHLORODIBENZOFURA	NG/L	2.6000		-	0.7100		U									
HEPTACHLORODIBENZO-P-DIOXINS	NG/L	3.4000		U	1.3000		U									
HEPTACHLORODIBENZOFURANS	NG/L	1.2000		U	0.5400		U									
HEXACHLORODIBENZO-P-DIOXINS	NG/L	0.5700		U	1.1000		U									
HEXACHLORODIBENZOFURANS	NG/L	1.3000		U	1.4000		U									
OCTACHLORODIBENZO-P-DIOXIN	NG/L	1.6000		J	0.5600		U									
OCTACHLORODIBENZOFURAN	NG/L	0.5500		-	0.4300		U									
PENTACHLORODIBENZO-P-DIOXINS	NG/L	1.7000		U	3.2000		U									
PENTACHLORODIBENZOFURANS	NG/L	5.9000		-	0.7900		U									
TETRACHLORODIBENZO-P-DIOXINS	NG/L	0.3400		U	0.2600		UJ									
TETRACHLORODIBENZOFURANS	NG/L	12.4000		-	3.0000		J									

SAMPLE NUMBER:		063919		063921		063945			123025			063904		
LAB:		IT		IT										
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY														
ALKALINITY AS CACO3	MG/L	2098.0000	-	2190.0000	-	5.0000		U						
AMMONIA	MG/L	474.0000	-	568.0000	-	0.5710		U				0.2000		-
CHLORIDE	MG/L	5917.9000	-	5511.0000	-	0.5000		U				4300.0000		-
FLUORIDE	MG/L					0.4000		U				34.0000		-
NITRATE	MG/L	276.0000	-	285.0000	-	0.4000		U				62.4000		J
PH	STD	11.8000	-	11.9000	-	7.7700		-						
PHOSPHATE	MG/L					1.0000		U						
PHOSPHORUS	MG/L	6.3600	-	1.3200	-							0.1500		-
SULFATE	MG/L	2.0000	U	2.0000	U	1.8700		-				2.0000		U
SULFIDE	MG/L	0.5000	U	0.5000	U	0.5000		U				0.5000		U
TOTAL ORGANIC CARBON	MG/L	25.2000	-	13.4000	-	1.0000		U				135.0000		-
TOTAL ORGANIC NITROGEN	MG/L											0.2000		-
HERBICIDES														
2,4,5-T	UG/L	2.0000	U	2.0000	U									
2,4,5-TP (SILVEX)	UG/L	1.8000	U	1.8000	U									
2,4-D	UG/L	10.0000	U	10.0000	U									
INORGANICS														
ALUMINUM	MG/L	0.5330	-	0.5350	-	1.1100		J	5.3200		J	1.5200		-
ANTIMONY	MG/L	0.1120	J	0.1080	J	0.0984		-	0.0050		UJ	0.3870		J
ARSENIC	MG/L	0.0023	J	0.0027	J	0.0020		U	0.0040		UJ	0.0020		U
BARIUM	MG/L	1.9300	-	2.0500	-	0.5630		J	2.6700		-	0.0889		J
BERYLLIUM	MG/L	0.0034	-	0.0036	-	0.0040		J	0.0020		U	0.1010		-
BORON	MG/L	0.2520	-	0.2520	-	0.2280		J				1.4600		-
CADMIUM	MG/L	0.0200	U	0.0200	U	0.0100		UJ	0.0050		U	0.0392		-
CALCIUM	MG/L	3100.0000	-	3220.0000	-	1910.0000		-	2860.0000		-	173.0000		-
CHROMIUM	MG/L	0.1420	-	0.1450	-	0.1590		-	0.0337		-	0.2120		J
COBALT	MG/L	0.0241	J	0.0259	J	0.0204		J	0.0100		U	1.6900		J
COPPER	MG/L	0.0511	-	0.0485	-	0.0629		J	0.0143		-	0.0967		-
CYANIDE	MG/L	0.5770	J	0.6230	J				0.4400		-	0.3630		J
IRON	MG/L	0.1000	-	0.1080	-	0.5870		J	2.6600		-	0.1490		-
LEAD	MG/L	0.0020	U	0.0020	U	0.0048		J	0.0116		U	0.0024		J
MAGNESIUM	MG/L	1.1600	-	1.4100	-	33.0000		-	113.0000		-	606.0000		-
MANGANESE	MG/L	0.0214	J	0.0200	J	0.0444		-	0.2300		-	322.0000		-
MERCURY	MG/L	0.0002	U	0.0002	U	0.0002		U	0.0005		J	0.0002		U
MOLYBDENUM	MG/L	0.0390	-	0.0386	-	0.0324		J	0.0316		-	0.4930		
NICKEL	MG/L	0.0383	J	0.0410	J	0.0526		J	0.0391		-	12.4000		
POTASSIUM	MG/L	307.0000	-	308.0000	-	130.0000		-	282.0000		-	295.0000		
SELENIUM	MG/L	0.0100	UJ	0.0116	J	0.0020		UJ	0.0124		-	0.0326		
SILICON	MG/L	0.6000	-	0.5840	-	1.7300		J	13.3000		-	31.0000		
SILVER	MG/L	0.1150	J	0.1160	-	0.1160		J	0.0100		U	0.1210		
SODIUM	MG/L	678.0000	-	674.0000	-	635.0000		-	551.0000		-	791.0000		

001834

5704

SAMPLE NUMBER:		063919		063921		063945		123025		063904	
LAB:		IT		IT		IT		IT		IT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-UNF		NONE-FIL		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
THALLIUM	MG/L	0.0020	UJ	0.0020	UJ	0.0020	UJ	0.0100	UR	0.0036	J
TIN	MG/L	0.2000	U	0.2000	U	0.2000	U			0.2000	U
VANADIUM	MG/L	0.0811	-	0.0830	-	0.0791	J	0.0100	U	0.1190	-
ZINC	MG/L	0.0064	-	0.0057	-	0.0187	UJ	0.0500	-	0.2980	-
MISC											
1,2,3-TRICHLOROPROPANE	UG/L	10.0000	UJ	10.0000	UJ	10.0000	U				
1,2,4,5-TETRACHLOROBENZENE	UG/L	4.0000	U	10.0000	UJ	40.0000	U				
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	10.0000	U	10.0000	U	10.0000	U				
1,2-DIBROMOETHANE	UG/L	10.0000	U	10.0000	U	10.0000	U				
1,3,5-TRINITROBENZENE	UG/L	10.0000	U	10.0000	U	40.0000	UJ				
1,3-DINITROBENZENE	UG/L	10.0000	U	10.0000	U	40.0000	U				
1,4-NAPHTHOQUINONE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	UJ				
1-NAPHTHYLAMINE	UG/L	120.0000	U	120.0000	U	480.0000	U				
2,3,4,6-TETRACHLOROPHENOL	UG/L	10.0000	R	10.0000	R	40.0000	U				
2,6-DICHLOROPHENOL	UG/L	10.0000	R	10.0000	R	40.0000	UJ				
2-ACETYLAMINOFLUORENE	UG/L	10.0000	U	10.0000	U	40.0000	U				
2-CHLORO-1,3-BUTADIENE	UG/L	10.0000	U	10.0000	U	10.0000	U				
2-NAPHTHYLAMINE	UG/L	170.0000	U	170.0000	U	680.0000	U				
2-PICOLINE	UG/L	70.0000	U	71.0000	U	280.0000	U				
3,3'-DIMETHYLBENZIDINE	UG/L	80.0000	U	82.0000	U	320.0000	U				
3-CHLOROPROPENE	UG/L	10.0000	U	10.0000	U	10.0000	UJ				
3-METHYLCHOLANTHRENE	UG/L	30.0000	UJ	31.0000	UJ	120.0000	U				
3-METHYLPHENOL	UG/L	9.0000	J	6.0000	J	40.0000	U				
4-AMINOBIPHENYL	UG/L	50.0000	U	51.0000	U	200.0000	U				
4-CHLOROANILINE	UG/L	10.0000	U	10.0000	U	40.0000	U				
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	R				
5-NITRO-O-TOLUIDINE	UG/L	20.0000	U	20.0000	UJ	80.0000	U				
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000	U	20.0000	U	80.0000	U				
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	UJ				
ACETONITRILE	UG/L	20.0000	U	13.0000	UJ	20.0000	U				
ACETOPHENONE	UG/L	10.0000	U	10.0000	U	40.0000	U				
ACROLEIN	UG/L	20.0000	U	20.0000	U	20.0000	UJ				
ACROLEIN	UG/L	20.0000	U	20.0000	U	20.0000	UJ				
ACRYLONITRILE	UG/L	20.0000	U	20.0000	R	20.0000	R				
ANILINE	UG/L	50.0000	U	51.0000	U	200.0000	U				
ARAMITE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	UJ				
DIALLATE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	R				
DIBROMOMETHANE	UG/L	10.0000	UJ	10.0000	UJ	10.0000	U				
DICHLORODIFLUOROMETHANE	UG/L	200.0000	U	200.0000	U	200.0000	R				
DINOSEB	UG/L	20.0000	UJ	0.7000	U	80.0000	UJ				
DIPHENYLAMINE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	U				
ETHYL CYANIDE	UG/L	10.0000	U	10.0000	U	10.0000	U				
ETHYL METHACRYLATE	UG/L	10.0000	U	10.0000	U	10.0000	U				

SAMPLE NUMBER:		063919		063921		063945		123025		063904	
LAB:		IT		IT		IT					
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
MISC											
ETHYL METHANESULFONATE	UG/L	10.0000	U	10.0000	U	40.0000	U				
HEXACHLOROPHENE	UG/L	50.0000	U	51.0000	U	200.0000	UJ				
HEXACHLOROPROPENE	UG/L	20.0000	R	20.0000	R	80.0000	UJ				
IODOMETHANE	UG/L	10.0000	U	10.0000	U	10.0000	U				
ISODRIN	UG/L	0.0500	U	0.0500	U						
ISOSAFROLE	UG/L	10.0000	U	10.0000	U	40.0000	U				
KEPONE	UG/L	0.1000	U	0.1000	U						
METHACRYLONITRILE	UG/L	10.0000	U	10.0000	U	10.0000	U				
METHAPYRILENE	UG/L	40.0000	UJ	41.0000	UJ	160.0000	UJ				
METHYL METHACRYLATE	UG/L	10.0000	U	10.0000	U	10.0000	U				
METHYL METHANESULFONATE	UG/L	10.0000	U	10.0000	U	40.0000	UJ				
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000	R	20.0000	R	80.0000	R				
N-NITROSODIETHYLAMINE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	UJ				
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	U				
N-NITROSOMORPHOLINE	UG/L	10.0000	UJ	10.0000	UJ	40.0000	UJ				
N-NITROSOPIPERIDINE	UG/L	10.0000	U	10.0000	U	40.0000	UJ				
N-NITROSOPYRROLIDINE	UG/L	10.0000	R	10.0000	R	40.0000	UJ				
O-TOLUIDINE	UG/L	10.0000	U	10.0000	U	40.0000	U				
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000	UJ	31.0000	UJ	120.0000	UJ				
P-PHENYLENEDIAMINE	UG/L	50.0000	R	51.0000	R	200.0000	UJ				
PENTACHLOROBENZENE	UG/L	20.0000	UJ	20.0000	UJ	80.0000	U				
PENTACHLOROETHANE	UG/L	20.0000	U	20.0000	U	80.0000	U				
PENTACHLORONITROBENZENE	UG/L	20.0000	UJ	20.0000	UJ	80.0000	U				
PHENACETIN	UG/L	10.0000	U	10.0000	U	40.0000	U				
PRONAMIDE	UG/L	30.0000	U	31.0000	U	120.0000	U				
SAFROLE	UG/L	10.0000	U	10.0000	U	40.0000	UJ				
TETRAETHYLPYROPHOSPHATE	UG/L	3.0000	UJ	3.0000	UJ						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	10.0000	UJ	10.0000	UJ	10.0000	UJ				
ORGANOPHOSPHORUS											
DIMETHOATE	UG/L	3.0000	UJ	3.0000	UJ						
DISULFOTON	UG/L	3.0000	UJ	3.0000	UJ						
FAMPHUR	UG/L	3.0000	UJ	3.0000	UJ						
METHYL PARATHION	UG/L	3.0000	UJ	3.0000	UJ						
PARATHION	UG/L	3.0000	UJ	3.0000	UJ						
PHORATE	UG/L	3.0000	UJ	3.0000	UJ						
THIONAZIN	UG/L	3.0000	UJ	3.0000	UJ						
PESTICIDES											
4,4'-DDD	UG/L	0.1000	U	0.1000	U						
4,4'-DDE	UG/L	0.1000	U	0.1000	U						
4,4'-DDT	UG/L	0.1000	U	0.1000	U						
ALDRIN	UG/L	0.0500	U	0.0500	U						

SAMPLE NUMBER:		063919		063921		063945			123025			063904		
LAB:		IT		IT										
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES														
ALPHA-BHC	UG/L	0.0500	U	0.0500	U									
ALPHA-CHLORDANE	UG/L	0.5000	U	0.5000	U									
AROCLOR-1016	UG/L	0.5000	U	0.5000	U									
AROCLOR-1221	UG/L	0.5000	U	0.5000	U									
AROCLOR-1232	UG/L	0.5000	U	0.5000	U									
AROCLOR-1242	UG/L	0.5000	U	0.5000	U									
AROCLOR-1248	UG/L	3.1000	J	6.5000	R									
AROCLOR-1254	UG/L	1.0000	U	1.0000	U									
AROCLOR-1260	UG/L	1.0000	U	1.0000	U									
BETA-BHC	UG/L	0.0500	U	0.0500	U									
CHLOROBENZILATE	UG/L	0.1000	U	0.1000	U									
DELTA-BHC	UG/L	0.0500	U	0.0500	U									
DIELDRIN	UG/L	0.1000	U	0.1000	U									
ENDOSULFAN II	UG/L	0.1000	U	0.1000	U									
ENDOSULFAN SULFATE	UG/L	0.1000	U	0.1000	U									
ENDOSULFAN-I	UG/L	0.0500	U	0.0500	U									
ENDRIN	UG/L	0.1000	U	0.1000	U									
ENDRIN KETONE	UG/L	0.1000	U	0.1000	U									
GAMMA-BHC (LINDANE)	UG/L	0.0500	U	0.0500	U									
GAMMA-CHLORDANE	UG/L	0.5000	U	0.5000	U									
HEPTACHLOR	UG/L	0.0500	U	0.0500	U									
HEPTACHLOR EPOXIDE	UG/L	0.0500	U	0.0500	U									
METHOXYCHLOR	UG/L	0.5000	U	0.5000	U									
SULFOTEP	UG/L	10.0000	R	3.0000	UJ	40.0000		U						
TOXAPHENE	UG/L	1.0000	U	1.0000	U									
RADIONUCLIDES														
URANIUM-238	PCI/L					562.0000	66	-	19.5000	4.2	-	3990.0000	520	J
URANIUM, TOTAL	UG/L					1780.0000	240	-	50.2000	7.5	-	12100.0000	1700	-
URANIUM-234	PCI/L					96.9000	15.3	-	11.2000	2.5	-	3760.0000	490	J
THORIUM-230	PCI/L								97.2000	21.1	-	1.0000		U
RADIUM-226	PCI/L								164.0000	25	J	120.0000	17	-
URANIUM-235/236	PCI/L					16.8000	5.1	-	0.7240	.291	J	268.0000	49	J
THORIUM-232	PCI/L								0.6170	.287	J	1.0000		U
THORIUM, TOTAL	UG/L								5.6300	2.59	J	2.9000		U
RADIUM-228	PCI/L								69.2000	26.4	-	85.1000	12.5	-
THORIUM-228	PCI/L								1.2700	.46	-	1.0000		U
NEPTUNIUM-237	PCI/L								0.5370	.321	J	2.1000		R
PLUTONIUM-239/240	PCI/L					1.0000		U	0.5000	.0525	UJ	1.0000		U
PLUTONIUM-238	PCI/L					1.0000		U	0.0730	.859	R	1.0000		U
STRONTIUM-90	PCI/L					5.0000		U	1.0900	.524	J	12.9000	2.4	J
TECHNETIUM-99	PCI/L					30.0000		U	16.8000	9.53	UJ	30.0000		U
RUTHENIUM-106	PCI/L					150.0000		R	150.0000		UJ	150.0000		R
CESIUM-137	PCI/L					20.0000		R	17.0000		UJ	20.0000		R

SAMPLE NUMBER:		063919			063921			063945			123025			063904		
LAB:								IT			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
GROSS ALPHA	PCI/L							1023.0000	220	NV				5310.0000	680	NV
GROSS BETA	PCI/L							981.0000	128	NV				3780.0000	396	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	4.0000		J	3.0000		U	40.0000		U	10.0000		U			
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		R	51.0000		R	200.0000		U	25.0000		UR			
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		R	10.0000		R	40.0000		U	10.0000		UR			
2,4-DICHLOROPHENOL	UG/L	10.0000		R	10.0000		R	40.0000		U	10.0000		UR			
2,4-DIMETHYLPHENOL	UG/L	10.0000		R	10.0000		R	40.0000		U	10.0000		UR			
2,4-DINITROPHENOL	UG/L	50.0000		R	24.0000		J	200.0000		U	5.0000		J			
2,4-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
2-CHLOROPHENOL	UG/L	10.0000		R	10.0000		R	40.0000		U	10.0000		UR			
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
2-METHYLPHENOL	UG/L	10.0000		R	10.0000		R	40.0000		U	10.0000		UR			
2-NITROANILINE	UG/L	50.0000		U	51.0000		U	200.0000		U	25.0000		U			
2-NITROPHENOL	UG/L	10.0000		R	10.0000		R	40.0000		U	4.0000		J			
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U	20.0000		U	80.0000		U	10.0000		U			
3-NITROANILINE	UG/L	50.0000		U	51.0000		U	200.0000		U	25.0000		UR			
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		R	51.0000		R	200.0000		U	3.0000		J			
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		R	3.0000		J	40.0000		U	10.0000		UR			
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
4-METHYLPHENOL	UG/L	6.0000		J	4.0000		J	40.0000		U	10.0000		UR			
4-NITROANILINE	UG/L	50.0000		UJ	51.0000		U	200.0000		U	25.0000		U			
4-NITROPHENOL	UG/L	50.0000		R	51.0000		R	200.0000		U	25.0000		UR			
ACENAPHTHENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
ACENAPHTHYLENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
ANTHRACENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BENZO(A)ANTHRACENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BENZO(A)PYRENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BENZO(B)FLUORANTHENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BENZO(K)FLUORANTHENE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BENZOIC ACID	UG/L	50.0000		R	38.0000		J	200.0000		UJ						
BENZYL ALCOHOL	UG/L	10.0000		U	10.0000		U	40.0000		U						
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U	10.0000		U	40.0000		U	10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U	10.0000		UJ	40.0000		U	10.0000		U			

SAMPLE NUMBER:		063919		063921		063945		123025		063904	
LAB:		IT		IT		IT		IT			
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
CARBAZOLE	UG/L							10.0000	U		
CHRYSENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
DIBENZOFURAN	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
DIETHYL PHTHALATE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
DIMETHYL PHTHALATE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
FLUORANTHENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
FLUORENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
HEXACHLOROBENZENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
HEXACHLOROBUTADIENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
HEXACHLOROETHANE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
ISOPHORONE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U	10.0000	U	40.0000	UJ	10.0000	U		
N-NITROSODIMETHYLAMINE	UG/L	10.0000	U	10.0000	U	40.0000	U				
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
NAPHTHALENE	UG/L	10.0000	U	10.0000	U	40.0000	U	1.0000	J		
NITROBENZENE	UG/L	6.0000	J	5.0000	J	40.0000	U	10.0000	U		
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	3.0000	UJ	3.0000	UJ	40.0000	UJ				
P-CHLOROANILINE	UG/L							10.0000	U		
PENTACHLOROPHENOL	UG/L	50.0000	R	51.0000	R	200.0000	U	25.0000	UR		
PHENANTHRENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
PHENOL	MG/L	10.0000	R	10.0000	R	40.0000	U	10.0000	UR		
PYRENE	UG/L	10.0000	U	10.0000	U	40.0000	U	10.0000	U		
PYRIDINE	UG/L	10.0000	U	10.0000	U	40.0000	U				
TRIBUTYL PHOSPHATE	UG/L					40.0000	U				
VOLATILES											
1,1,1,2-TETRACHLOROETHANE	UG/L	10.0000	U	10.0000	U	10.0000	U				
1,1,1-TRICHLOROETHANE	UG/L	29.0000	J	29.0000	J	5.0000	U	20.0000	UJ		
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000	U	5.0000	U	5.0000	U	10.0000	UJ		
1,1,2-TRICHLOROETHANE	UG/L	5.0000	U	5.0000	U	5.0000	U	10.0000	UJ		
1,1-DICHLOROETHANE	UG/L	47.0000	J	48.0000	J	5.0000	U	40.0000	UJ		
1,1-DICHLOROETHENE	UG/L	14.0000	U	14.0000	-	5.0000	U	14.0000	J		
1,2-DICHLOROETHANE	UG/L	5.0000	U	2.0000	J	5.0000	U	2.0000	J		
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000	U	5.0000	U	5.0000	U	10.0000	UJ		
1,2-DICHLOROPROPANE	UG/L	5.0000	U	5.0000	U	5.0000	U	10.0000	UJ		
2-BUTANONE	UG/L	20.0000	U	16.0000	-	10.0000	U	22.0000	J		
2-HEXANONE	UG/L	3.0000	UJ	10.0000	UJ	10.0000	U	4.0000	J		
4-METHYL-2-PENTANONE	UG/L	21.0000	-	19.0000	-	10.0000	U	120.0000	J		

SAMPLE NUMBER:	063919			063921			063945			123025			063904		
LAB:	IT			IT			IT			IT					
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ACETONE	UG/L	88.0000		U	72.0000		U	10.0000		UJ	110.0000		J			
BENZENE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
BROMODICHLOROMETHANE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
BROMOFORM	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
BROMOMETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ			
CARBON DISULFIDE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
CARBON TETRACHLORIDE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
CHLOROBENZENE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
CHLOROETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ			
CHLOROFORM	UG/L	5.0000		J	5.0000		U	5.0000		U	1.0000		J			
CHLOROMETHANE	UG/L	10.0000		UJ	10.0000		UJ	10.0000		U	10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		UJ	5.0000		UJ	5.0000		U	10.0000		UJ			
DIBROMOCHLOROMETHANE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
ETHYLBENZENE	UG/L	4.0000		J	3.0000		J	5.0000		U	7.0000		J			
ISOBUTYL ALCOHOL	UG/L	200.0000		UJ	10.0000		UJ	200.0000		U						
METHYLENE CHLORIDE	UG/L	21.0000		U	22.0000		U	5.0000		U	22.0000		UJ			
STYRENE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
TETRACHLOROETHENE	UG/L	5.0000		U	5.0000		U	5.0000		U	10.0000		UJ			
TOLUENE	UG/L	1.0000		J	1.0000		J	5.0000		U	10.0000		UJ			
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		UJ	5.0000		UJ	5.0000		U	10.0000		UJ			
TRICHLOROETHENE	UG/L	1.0000		J	1.0000		J	5.0000		U	10.0000		UJ			
TRICHLOROFLUOROMETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U						
VINYL ACETATE	UG/L	10.0000		UJ	10.0000		UJ	10.0000		UJ	10.0000		UJ			
VINYL CHLORIDE	UG/L	2.0000		J	2.0000		J	10.0000		U	10.0000		UJ			
XYLENES, TOTAL	UG/L	16.0000		-	15.0000		-	5.0000		U	30.0000		J			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	063915	123022	063925	063946	123028
TASK:	10.03.01	10.03.08	10.03.01	10.03.01	10.03.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1766	1766	1767	1767	1767
DEPTH:	-	-	-	-	-
DATE COLLECTED:	30-OCT-91	24-JUN-93	05-NOV-91	14-NOV-91	24-JUN-93
NORTH COORDINATE:	481349.56	481349.56	481289.27	481289.27	481289.27
EAST COORDINATE:	1378240.51	1378240.51	1378278.74	1378278.74	1378278.74
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-FIL	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBENN	NG/L	1.1000		U				0.3700		U						
1,2,3,4,6,7,8-HEPTACHLORODIBENN	G/L	0.4100		U				1.5000		U						
1,2,3,4,7,8,9-HEPTACHLORODIBENN	G/L	0.5700		U				2.1000		U						
1,2,3,4,7,8-HEXACHLORODIBENZO-N	G/L	1.0000		U				2.3000		U						
1,2,3,4,7,8-HEXACHLORODIBENZOFN	G/L	0.6100		U				1.4000		U						
1,2,3,6,7,8-HEXACHLORODIBENZO-N	G/L	0.8300		U				1.8000		U						
1,2,3,6,7,8-HEXACHLORODIBENZOFN	G/L	0.6540		U				1.2000		U						
1,2,3,7,8,9-HEXACHLORODIBENZO-N	G/L	0.8700		U				1.9000		U						
1,2,3,7,8,9-HEXACHLORODIBENZOFN	G/L	0.7100		U				1.6000		U						
1,2,3,7,8-PENTACHLORODIBENZO-PN	G/L	0.7000		U				1.3000		U						
1,2,3,7,8-PENTACHLORODIBENZOFUN	G/L	0.3800		U				0.3400		U						
1,4-DIOXANE	UG/L	200.0000		R				290.0000		R						
2,3,4,6,7,8-HEXACHLORODIBENZOFN	G/L	0.6400		U				1.4000		U						
2,3,4,7,8-PENTACHLORODIBENZOFUN	G/L	0.4100		U				0.4100		U						
2,3,7,8-TETRACHLORODIBENZO-P-DN	G/L	0.5800		U				0.6100		U						
2,3,7,8-TETRACHLORODIBENZOFURAN	G/L	2.5000		U				1.6000		U						
HEPTACHLORODIBENZO-P-DIOXINS	NG/L	1.1000		U				1.6000		U						
HEPTACHLORODIBENZOFURANS	NG/L	0.7000		U				1.7000		U						
HEXACHLORODIBENZO-P-DIOXINS	NG/L	2.2000		U				2.0000		U						
HEXACHLORODIBENZOFURANS	NG/L	0.6200		U				1.4000		U						
OCTACHLORODIBENZO-P-DIOXIN	NG/L	0.5900		UJ				0.3200		UJ						
OCTACHLORODIBENZOFURAN	NG/L	0.4000		U				0.5600		UJ						
PENTACHLORODIBENZO-P-DIOXINS	NG/L	1.5000		U				1.3000		U						
PENTACHLORODIBENZOFURANS	NG/L	0.3900		U				0.7900		U						
TETRACHLORODIBENZO-P-DIOXINS	NG/L	0.4700		U				0.3200		U						
TETRACHLORODIBENZOFURANS	NG/L	1.1000		U				0.3900		UJ						
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L	475.0000		-				2940.0000		-						

SAMPLE NUMBER:		063915		123022		063925		063946		123028	
LAB:		IT				IT					
SUFFIX/FILTERFLAG:		NONE-FIL		-		NONE-FIL		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY											
AMMONIA	MG/L	348.0000	-			399.0000	-				
CHLORIDE	MG/L					2943.2000	-				
NITRATE	MG/L	9.8000	-			0.7590	-				
PH	STD	6.3700	-			12.4300	-				
PHOSPHORUS	MG/L	0.8170	-			0.2600	-				
SULFATE	MG/L					2.0000	U				
SULFIDE	MG/L	0.5000	U			0.5000	U				
TOTAL ORGANIC CARBON	MG/L	73.0000	-			10.8000	-				
HERBICIDES											
2,4,5-T	UG/L	2.0000	U			2.0000	UJ				
2,4,5-TP (SILVEX)	UG/L	1.8000	U			1.8000	UJ				
2,4-D	UG/L	10.0000	U			10.0000	UJ				
INORGANICS											
ALUMINUM	MG/L	1.2800	-	5.4300	J	0.5420	-	0.5360	J	0.9340	-
ANTIMONY	MG/L	0.3950	-	0.0050	UJ	0.0908	-			0.0050	UJ
ARSENIC	MG/L	0.0022	J	0.0051	U	0.0028	J			0.0020	U
BARIUM	MG/L	0.0853	-	0.8290	-	0.5800	-			0.2680	-
BERYLLIUM	MG/L	0.1010	-	0.0716	-	0.0036	-			0.0020	U
BORON	MG/L	1.6200	-			0.2450	-				
CADMIUM	MG/L	0.0414	-	0.0050	U	0.0100	U			0.0050	U
CALCIUM	MG/L	183.0000	-	154.0000	-	201.0000	-			1730.0000	-
CHROMIUM	MG/L	0.2020	-	2.7500	-	0.1290	-			0.0485	-
COBALT	MG/L	1.7800	-	1.5200	-	0.0183	J			0.0100	U
COPPER	MG/L	0.0872	-	0.1130	-	0.0500	-			0.0100	U
CYANIDE	MG/L	0.1340	J	0.1020	J	0.0020	UJ			0.0204	-
IRON	MG/L	0.1360	-	14.7000	-	0.1700	-	0.1010	J	0.0843	-
LEAD	MG/L	0.0020	U	0.0512	-	0.0035	-	0.0043	J	0.0030	U
MAGNESIUM	MG/L	650.0000	-	593.0000	-	11.3000	-	0.8370	-	5.9600	-
MANGANESE	MG/L	325.0000	J	268.0000	-	0.0238	J	0.0222	J	0.0132	-
MERCURY	MG/L	0.0002	U	0.0002	U	0.0002	UJ	0.0002	UJ	0.0002	U
MOLYBDENUM	MG/L	0.5830	-	0.5870	-	0.0240	-	0.0364	J	0.0202	-
NICKEL	MG/L	13.3000	-	13.4000	-	0.0351	J	0.0324	J	0.0200	U
POTASSIUM	MG/L	324.0000	-	317.0000	-	137.0000	-	293.0000	-	132.0000	-
SELENIUM	MG/L	0.0158	J	0.0294	-	0.0020	UJ			0.0020	UJ
SILICON	MG/L	31.4000	-	36.5000	-	0.6450	-	0.5420	J	0.3380	-
SILVER	MG/L	0.1100	-	0.0163	-	0.1070	-	0.1180	J	0.0100	U
SODIUM	MG/L	868.0000	-	702.0000	-	643.0000	-	633.0000	-	629.0000	-
THALLIUM	MG/L	0.0024	J	0.0100	UR	0.0020	UJ			0.0100	UR
TIN	MG/L	0.2000	U			0.2000	U				
VANADIUM	MG/L	0.1210	-	0.0319	-	0.0693	-			0.0100	U
ZINC	MG/L	0.2520	-	0.1870	-	0.0050	U			0.0050	U

SAMPLE NUMBER:		063915		123022		063925		063946		123028	
LAB:		IT		IT		IT		-		IT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		F-UNF		-		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
MISC											
1,2,3-TRICHLOROPROPANE	UG/L	10.0000	UJ			10.0000	U				
1,2,4,5-TETRACHLOROBENZENE	UG/L	10.0000	UJ			10.0000	UJ				
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	10.0000	U			10.0000	U				
1,2-DIBROMOETHANE	UG/L	10.0000	U			10.0000	U				
1,3,5-TRINITROBENZENE	UG/L	10.0000	U			10.0000	U				
1,3-DINITROBENZENE	UG/L	10.0000	U			10.0000	U				
1,4-NAPHTHOQUINONE	UG/L	10.0000	UJ			10.0000	UJ				
1-NAPHTHYLAMINE	UG/L	120.0000	U			120.0000	U				
2,3,4,6-TETRACHLOROPHENOL	UG/L	10.0000	U			10.0000	U				
2,6-DICHLOROPHENOL	UG/L	10.0000	U			10.0000	U				
2-ACETYLAMINOFLUORENE	UG/L	10.0000	U			10.0000	U				
2-CHLORO-1,3-BUTADIENE	UG/L	10.0000	U			10.0000	R				
2-NAPHTHYLAMINE	UG/L	170.0000	U			170.0000	U				
2-PICOLINE	UG/L	70.0000	U			70.0000	U				
3,3'-DIMETHYLBENZIDINE	UG/L	80.0000	U			80.0000	U				
3-CHLOROPROPENE	UG/L	10.0000	U			10.0000	U				
3-METHYLCHOLANTHRENE	UG/L	30.0000	UJ			30.0000	UJ				
3-METHYLPHENOL	UG/L	120.0000	U			33.0000	U				
4-AMINOBIPHENYL	UG/L	50.0000	U			50.0000	U				
4-CHLOROANILINE	UG/L	10.0000	U			10.0000	U				
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000	UJ			10.0000	UJ				
5-NITRO-O-TOLUIDINE	UG/L	20.0000	U			20.0000	U				
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000	U			20.0000	U				
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000	UJ			10.0000	UJ				
ACETONITRILE	UG/L	180.0000	-			20.0000	U				
ACETOPHENONE	UG/L	10.0000	U			10.0000	U				
ACROLEIN	UG/L	21.0000	-			20.0000	R				
ACROLEIN	UG/L	21.0000	-			20.0000	R				
ACRYLONITRILE	UG/L	34.0000	J			20.0000	R				
ANILINE	UG/L	50.0000	U			50.0000	U				
ARAMITE	UG/L	10.0000	UJ			10.0000	UJ				
DIALLATE	UG/L	10.0000	UJ			10.0000	UJ				
DIBROMOMETHANE	UG/L	10.0000	UJ			10.0000	U				
DICHLORODIFLUOROMETHANE	UG/L	200.0000	U			200.0000	R				
DINOSEB	UG/L	0.7100	U			0.7100	UJ				
DIPHENYLAMINE	UG/L	10.0000	UJ			10.0000	UJ				
ETHYL CYANIDE	UG/L	18.0000	-			10.0000	U				
ETHYL METHACRYLATE	UG/L	10.0000	U			10.0000	UJ				
ETHYL METHANESULFONATE	UG/L	10.0000	U			10.0000	U				
HEXACHLOROPHENE	UG/L	50.0000	U			50.0000	U				
HEXACHLOROPROPENE	UG/L	20.0000	R			20.0000	R				
IODOMETHANE	UG/L	10.0000	U			10.0000	U				
ISODRIN	UG/L	0.2000	U			0.2500	U				
ISOSAFROLE	UG/L	10.0000	U			10.0000	U				
KEPONE	UG/L	0.4000	U			0.5000	U				

SAMPLE NUMBER:		063915			123022			063925			063946			123028		
LAB:		IT						IT								
SUFFIX/FILTERFLAG:		DL-FIL			-			DL-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
METHACRYLONITRILE	UG/L	10.0000		U				10.0000		U						
METHAPYRILENE	UG/L	40.0000		UJ				40.0000		UJ						
METHYL METHACRYLATE	UG/L	10.0000		U				10.0000		UJ						
METHYL METHANESULFONATE	UG/L	10.0000		U				10.0000		U						
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000		R				20.0000		UJ						
N-NITROSODIETHYLAMINE	UG/L	10.0000		UJ				10.0000		UJ						
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000		UJ				10.0000		UJ						
N-NITROSOMORPHOLINE	UG/L	10.0000		UJ				10.0000		U						
N-NITROSOPIPERIDINE	UG/L	10.0000		U				10.0000		U						
N-NITROSOPYRROLIDINE	UG/L	10.0000		R				10.0000		R						
O-TOLUIDINE	UG/L	10.0000		U				10.0000		U						
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000		UJ				30.0000		UJ						
P-PHENYLENEDIAMINE	UG/L	50.0000		R				50.0000		UJ						
PENTACHLOROBENZENE	UG/L	20.0000		UJ				20.0000		UJ						
PENTACHLOROETHANE	UG/L	20.0000		U				20.0000		U						
PENTACHLORONITROBENZENE	UG/L	20.0000		UJ				20.0000		UJ						
PHENACETIN	UG/L	10.0000		U				10.0000		U						
PRONAMIDE	UG/L	30.0000		U				30.0000		U						
SAFROLE	UG/L	10.0000		U				10.0000		U						
TETRAETHYLPYROPHOSPHATE	UG/L	31.0000		UJ				3.0000		U						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	10.0000		UJ				10.0000		U						
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L	31.0000		UJ				3.0000		U						
DISULFOTON	UG/L	31.0000		UJ				3.0000		U						
FAMPHUR	UG/L	31.0000		UJ				3.0000		U						
METHYL PARATHION	UG/L	31.0000		UJ				3.0000		U						
PARATHION	UG/L	31.0000		UJ				3.0000		U						
PHORATE	UG/L	31.0000		UJ				3.0000		U						
THIONAZIN	UG/L	31.0000		UJ				3.0000		U						
PESTICIDES																
4,4'-DDD	UG/L	0.4000		U				0.5000		U						
4,4'-DDE	UG/L	0.4000		U				0.5000		U						
4,4'-DDT	UG/L	0.4000		U				0.5000		U						
ALDRIN	UG/L	0.2000		U				0.2500		U						
ALPHA-BHC	UG/L	0.2000		U				0.2500		U						
ALPHA-CHLORDANE	UG/L	2.0000		U				2.5000		U						
AROCLOR-1016	UG/L	2.0000		U				2.5000		U						
AROCLOR-1221	UG/L	2.0000		U				2.5000		U						
AROCLOR-1232	UG/L	2.0000		U				2.5000		U						
AROCLOR-1242	UG/L	2.0000		U				2.5000		U						
AROCLOR-1248	UG/L	2.0000		U				2.5000		U						

SAMPLE NUMBER:		063915		123022			063925			063946			123028		
LAB:		IT					IT								
SUFFIX/FILTERFLAG:		DL-FIL		-			DL-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
AROCLOR-1254	UG/L	4.0000		U				5.0000		U						
AROCLOR-1260	UG/L	4.0000		U				5.0000		U						
BETA-BHC	UG/L	0.2000		U				0.2500		U						
CHLOROBENZILATE	UG/L	0.4000		U				0.5000		U						
DELTA-BHC	UG/L	0.2000		U				0.2500		U						
DIELDRIN	UG/L	0.4000		U				0.5000		U						
ENDOSULFAN II	UG/L	0.4000		U				0.5000		U						
ENDOSULFAN SULFATE	UG/L	0.4000		U				0.5000		U						
ENDOSULFAN-I	UG/L	0.2000		U				0.2500		U						
ENDRIN	UG/L	0.4000		U				0.5000		U						
ENDRIN KETONE	UG/L	0.4000		U				0.5000		U						
GAMMA-BHC (LINDANE)	UG/L	0.2000		U				0.2500		U						
GAMMA-CHLORDANE	UG/L	2.0000		U				2.5000		U						
HEPTACHLOR	UG/L	0.2000		U				0.2500		U						
HEPTACHLOR EPOXIDE	UG/L	0.2000		U				0.2500		U						
METHOXYCHLOR	UG/L	2.0000		U				2.5000		U						
SULFOTEP	UG/L	31.0000		R				10.0000		U						
TOXAPHENE	UG/L	4.0000		U				5.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L				1850.0000	410	-				8.1300	1.51	-	580.0000	12.2	J
URANIUM, TOTAL	UG/L				967.0000	148	-				16.6000	1.8	-	1280.0000	180	-
URANIUM-234	PCI/L				1610.0000	360	-				3.8400	.96	-	81.6000	18.2	J
THORIUM-230	PCI/L				403.0000	104	-							21.7000	4.9	-
RADIUM-226	PCI/L				6.3500	1.03	J									
URANIUM-235/236	PCI/L				83.4000	21.6	-				1.0000		U	6.1400	2.37	J
THORIUM-232	PCI/L				29.3000	13.6	-							0.2000	.0918	UJ
THORIUM, TOTAL	UG/L				267.0000	123	-							1.1400		UJ
RADIUM-228	PCI/L				140.0000	14	J									
THORIUM-228	PCI/L				51.1000	19.9	-							0.3310	.201	J
NEPTUNIUM-237	PCI/L				4.5500	2.24	-							0.5000	.327	UJ
PLUTONIUM-239/240	PCI/L				1.5000	.98	J				1.0000		U	0.5190	.274	J
PLUTONIUM-238	PCI/L				1.8100	1.11	-				1.0000		U	0.5000	.0902	UJ
STRONTIUM-90	PCI/L				13.1000	1.5	-				5.0000		UJ	1.0000	.482	UJ
TECHNETIUM-99	PCI/L				17.9000	9.93	UJ				30.0000		U	16.5000	9.86	UJ
RUTHENIUM-106	PCI/L				150.0000		UJ				150.0000		U	150.0000		UJ
CESIUM-137	PCI/L				17.0000		UJ				20.0000		U	16.0000		UJ
GROSS ALPHA	PCI/L										132.0000	93	NV			
GROSS BETA	PCI/L										329.0000	82	NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	100.0000		U	5.0000		J				10.0000		U
1,2-DICHLOROBENZENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U

SAMPLE NUMBER:		063915		123022		063925		063946		123028	
LAB:		IT		IT		IT				IT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		-		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
1,3-DICHLOROBENZENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
1,4-DICHLOROBENZENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2,4,5-TRICHLOROPHENOL	UG/L	50.0000	U	250.0000	U	50.0000	U			25.0000	U
2,4,6-TRICHLOROPHENOL	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2,4-DICHLOROPHENOL	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2,4-DIMETHYLPHENOL	UG/L	16.0000	U	100.0000	U	10.0000	UJ			16.0000	-
2,4-DINITROPHENOL	UG/L	50.0000	UJ	250.0000	U	50.0000	UJ			25.0000	U
2,4-DINITROTOLUENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2,6-DINITROTOLUENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2-CHLORONAPHTHALENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2-CHLOROPHENOL	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2-METHYLNAPHTHALENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
2-METHYLPHENOL	UG/L	10.0000	U	100.0000	U	10.0000	U			7.0000	J
2-NITROANILINE	UG/L	50.0000	U	250.0000	U	50.0000	U			25.0000	U
2-NITROPHENOL	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
3,3'-DICHLOROBENZIDINE	UG/L	20.0000	U	100.0000	U	20.0000	U			10.0000	U
3-NITROANILINE	UG/L	50.0000	U	250.0000	U	50.0000	U			25.0000	UR
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000	U	250.0000	U	50.0000	U			25.0000	U
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000	U	100.0000	U	10.0000	U			16.0000	-
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
4-METHYLPHENOL	UG/L	81.0000	J	100.0000	U	22.0000	-			10.0000	U
4-NITROANILINE	UG/L	50.0000	U	250.0000	U	50.0000	U			25.0000	U
4-NITROPHENOL	UG/L	50.0000	U	250.0000	U	50.0000	U			25.0000	U
ACENAPHTHENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
ACENAPHTHYLENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
ANTHRACENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BENZO(A)ANTHRACENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BENZO(A)PYRENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BENZO(B)FLUORANTHENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BENZO(G,H,I)PERYLENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BENZO(K)FLUORANTHENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BENZOIC ACID	UG/L	50.0000	U			50.0000	U				
BENZYL ALCOHOL	UG/L	10.0000	U			3.0000	J				
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
CARBAZOLE	UG/L			100.0000	U	10.0000	U			10.0000	U
CHRYSENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U
DIBENZOFURAN	UG/L	10.0000	U	100.0000	U	10.0000	U			10.0000	U

SAMPLE NUMBER:	063915			123022			063925			063946			123028		
LAB:	IT			IT			IT						IT		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
DIETHYL PHTHALATE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
DIMETHYL PHTHALATE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
FLUORANTHENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
FLUORENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
HEXACHLOROBENZENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
HEXACHLOROBUTADIENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
HEXACHLOROETHANE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
ISOPHORONE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
N-NITROSODIMETHYLAMINE	UG/L	10.0000		U				10.0000		U						
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U	100.0000		U	10.0000		UJ				10.0000		U
NAPHTHALENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
NITROBENZENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	31.0000		UJ				3.0000		U						
P-CHLOROANILINE	UG/L				100.0000		U							10.0000		U
PENTACHLOROPHENOL	UG/L	50.0000		U	250.0000		U	50.0000		U				25.0000		U
PHENANTHRENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
PHENOL	MG/L	10.0000		U	100.0000		U	10.0000		U				25.0000		-
PYRENE	UG/L	10.0000		U	100.0000		U	10.0000		U				10.0000		U
PYRIDINE	UG/L	10.0000		U				10.0000		U						
TRIBUTYL PHOSPHATE	UG/L							10.0000		U						
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	10.0000		U				10.0000		U						
1,1,1-TRICHLOROETHANE	UG/L	69.0000		J	37.0000		U	5.0000		UJ				8.0000		J
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U	10.0000		U	5.0000		U				10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U	10.0000		U	5.0000		UJ				10.0000		U
1,1-DICHLOROETHANE	UG/L	5.0000		UJ	10.0000		U	10.0000		-				14.0000		-
1,1-DICHLOROETHENE	UG/L	3.0000		J	2.0000		J	5.0000		U				10.0000		U
1,2-DICHLOROETHANE	UG/L	7.0000		-	5.0000		J	5.0000		U				10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U	10.0000		UJ	5.0000		U				10.0000		U
1,2-DICHLOROPROPANE	UG/L	5.0000		U	10.0000		U	5.0000		U				10.0000		U
2-BUTANONE	UG/L	29.0000		-	48.0000		J	36.0000		-				54.0000		J
2-HEXANONE	UG/L	50.0000		J	16.0000		-	10.0000		J				11.0000		-
4-METHYL-2-PENTANONE	UG/L	17.0000		-	11.0000		U	110.0000		J				210.0000		-
ACETONE	UG/L	79.0000		U	42.0000		UJ	300.0000		J				490.0000		J
BENZENE	UG/L	5.0000		U	2.0000		J	2.0000		J				2.0000		J
BROMODICHLOROMETHANE	UG/L	5.0000		U	10.0000		U	5.0000		U				10.0000		U
BROMOFORM	UG/L	5.0000		U	10.0000		U	5.0000		UJ				10.0000		U
BROMOMETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U				10.0000		U
CARBON DISULFIDE	UG/L	5.0000		U	10.0000		U	5.0000		U				10.0000		U
CARBON TETRACHLORIDE	UG/L	5.0000		U	10.0000		U	5.0000		UJ				10.0000		U

001847

SAMPLE NUMBER:	063915			123022		063925			063946			123028		
LAB:	IT			IT		IT						IT		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL		NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CHLOROBENZENE	UG/L	5.0000		U	4.0000		J	5.0000		U				10.0000		U
CHLOROETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U				10.0000		U
CHLOROFORM	UG/L	860.0000		-	660.0000		J	5.0000		U				10.0000		U
CHLOROMETHANE	UG/L	10.0000		UJ	10.0000		UJ	10.0000		U				3.0000		J
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		UJ	10.0000		U	5.0000		U				10.0000		U
DIBROMOCHLOROMETHANE	UG/L	5.0000		U	10.0000		U	5.0000		UJ				10.0000		U
ETHYLBENZENE	UG/L	8.0000		-	4.0000		J	5.0000		U				10.0000		U
ISOBUTYL ALCOHOL	UG/L	22.0000		UJ				33.0000		J						
METHYLENE CHLORIDE	UG/L	10.0000		U	13.0000		UJ	25.0000		-				28.0000		UJ
STYRENE	UG/L	5.0000		U	10.0000		U	5.0000		U				10.0000		U
TETRACHLOROETHENE	UG/L	18.0000		-	14.0000		-	5.0000		U				10.0000		U
TOLUENE	UG/L	9.0000		-	7.0000		J	4.0000		J				3.0000		J
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		UJ	10.0000		UJ	5.0000		UJ				10.0000		UJ
TRICHLOROETHENE	UG/L	9.0000		-	6.0000		J	5.0000		U				10.0000		U
TRICHLOROFLUOROMETHANE	UG/L	10.0000		U				10.0000		U						
VINYL ACETATE	UG/L	10.0000		UJ	10.0000		U	10.0000		U				10.0000		U
VINYL CHLORIDE	UG/L	10.0000		U	10.0000		U	10.0000		U				10.0000		U
XYLENES, TOTAL	UG/L	33.0000		-	18.0000		-	4.0000		J				3.0000		J

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	063909			063947			063952			123036			123047		
TASK:	10.03.01			10.03.01			10.03.01			10.03.08			10.03.08		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1768			1768			1768			1768			1768		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	22-OCT-91			15-NOV-91			19-NOV-91			24-JUN-93			24-JUN-93		
NORTH COORDINATE:	481392.56			481392.56			481392.56			481392.56			481392.56		
EAST COORDINATE:	1378532.54			1378532.54			1378532.54			1378532.54			1378532.54		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			DUPLICATE		
QC OF:													123036		
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-UNF			NONE-FIL			NONE-FIL			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
DIOXINS/FURANS															
1,2,3,4,6,7,8-HEPTACHLORODIBENNG/L							1.2000		U						
1,2,3,4,6,7,8-HEPTACHLORODIBENNG/L							0.8900		U						
1,2,3,4,7,8,9-HEPTACHLORODIBENNG/L							1.3000		U						
1,2,3,4,7,8-HEXACHLORODIBENZO-NG/L							0.4600		U						
1,2,3,4,7,8-HEXACHLORODIBENZOFNG/L							0.8700		U						
1,2,3,6,7,8-HEXACHLORODIBENZO-NG/L							0.3700		U						
1,2,3,6,7,8-HEXACHLORODIBENZOFNG/L							0.9100		U						
1,2,3,7,8,9-HEXACHLORODIBENZO-NG/L							0.3800		U						
1,2,3,7,8,9-HEXACHLORODIBENZOFNG/L							1.0000		U						
1,2,3,7,8-PENTACHLORODIBENZO-PNG/L							1.9000		UJ						
1,2,3,7,8-PENTACHLORODIBENZOFUNG/L							0.6900		U						
1,4-DIOXANE UG/L	130.0000		J												
2,3,4,6,7,8-HEXACHLORODIBENZOFNG/L							0.7700		U						
2,3,4,7,8-PENTACHLORODIBENZOFUNG/L							0.7500		U						
2,3,7,8-TETRACHLORODIBENZO-P-DNG/L							0.6800		U						
2,3,7,8-TETRACHLORODIBENZOFURANG/L							0.7300		U						
HEPTACHLORODIBENZO-P-DIOXINS NG/L							3.6000		U						
HEPTACHLORODIBENZOFURANS NG/L							0.9200		J						
HEXACHLORODIBENZO-P-DIOXINS NG/L							0.4000		U						
HEXACHLORODIBENZOFURANS NG/L							0.8800		U						
OCTACHLORODIBENZO-P-DIOXIN NG/L							6.5000		U						
OCTACHLORODIBENZOFURAN NG/L							0.7000		-						
PENTACHLORODIBENZO-P-DIOXINS NG/L							1.9000		UJ						
PENTACHLORODIBENZOFURANS NG/L							0.7200		U						
TETRACHLORODIBENZO-P-DIOXINS NG/L							0.3300		U						
TETRACHLORODIBENZOFURANS NG/L							0.4400		U						
GENERAL CHEMISTRY															
AMMONIA MG/L	275.0000		J												

001849

SAMPLE NUMBER:		063909		063947		063952			123036			123047		
LAB:		IT												
SUFFIX/FILTERFLAG:		NONE-FIL		-		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
CHLORIDE	MG/L	6203.0000		-												
FLUORIDE	MG/L	41.6000		-												
NITRATE	MG/L	4650.0000		J												
PHOSPHORUS	MG/L	32.0000		-												
SULFATE	MG/L	120.0000		-												
SULFIDE	MG/L	0.5000		U												
TOTAL ORGANIC CARBON	MG/L	7.7000		J												
HERBICIDES																
2,4,5-T	UG/L	2.2000		UJ												
2,4,5-TP (SILVEX)	UG/L	2.0000		UJ												
2,4-D	UG/L	11.0000		UJ												
INORGANICS																
ALUMINUM	MG/L	0.8870		-	2.1700		J				15.3000		J	16.9000		J
ANTIMONY	MG/L	0.5710		-	0.5030		-				0.0078		UJ	0.0081		UJ
ARSENIC	MG/L	0.0677		J	0.0347		-				0.0947		J	0.1180		J
BARIUM	MG/L	0.3600		-	0.4490		J				1.1300		-	1.0700		-
BERYLLIUM	MG/L	0.0047		J	0.0057		-				0.0060		-	0.0060		-
BORON	MG/L	2.2300		-	2.8200		J									
CADMIUM	MG/L	0.2790		-	0.2540		J				0.0077		-	0.0050		U
CALCIUM	MG/L	1680.0000		-	1050.0000		-				964.0000		-	961.0000		-
CHROMIUM	MG/L	0.0100		U	0.0100		UJ				0.0666		-	0.0689		-
COBALT	MG/L	0.3200		-	0.5950		J				0.7960		-	0.7820		-
COPPER	MG/L	0.0775		-	0.1450		J				0.3360		-	0.3210		-
CYANIDE	MG/L	0.0316		-							0.0020		UJ	0.0020		UJ
IRON	MG/L	0.2470		-	2.1800		J				17.3000		-	16.9000		-
LEAD	MG/L	0.0020		UJ	0.0183		-				0.2380		-	0.2250		-
MAGNESIUM	MG/L	3790.0000		-	2750.0000		-				2590.0000		-	2620.0000		-
MANGANESE	MG/L	3.9700		J	4.5200		-				5.4400		-	5.4000		-
MERCURY	MG/L	0.0046		-	0.0002		UJ				0.0007		J	0.0007		J
MOLYBDENUM	MG/L	0.5100		J	1.5700		J				1.7100		-	1.7000		-
NICKEL	MG/L	0.0200		U	0.1890		J				0.9160		-	0.9110		-
POTASSIUM	MG/L	1240.0000		-	1280.0000		-				1170.0000		-	1370.0000		-
SELENIUM	MG/L	0.0546		J	0.0583		-				0.0112		J	0.0608		J
SILICON	MG/L	6.7600		-	10.1000		J				24.8000		-	29.7000		-
SILVER	MG/L	0.1150		J	0.1080		J				0.0100		U	0.0100		U
SODIUM	MG/L	3140.0000		-	1970.0000		-				1770.0000		J	3250.0000		J
THALLIUM	MG/L	0.0100		UJ	0.0055		J				0.0100		UR	0.0100		UR
TIN	MG/L	0.2000		U	0.2000		U									
VANADIUM	MG/L	0.2660		-	0.3340		J				0.3790		-	0.3730		-
ZINC	MG/L	0.0553		J	0.0630		-				0.1680		-	0.1770		-

MISC

1,2,3-TRICHLOROPROPANE	UG/L	10.0000	U

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	063909	063947	063952	123036	123047
LAB:	IT				
SUFFIX/FILTERFLAG:	NONE-FIL	-	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
1,2,4,5-TETRACHLOROBENZENE	UG/L	10.0000		U												
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	10.0000		U												
1,2-DIBROMOETHANE	UG/L	10.0000		U												
1,3,5-TRINITROBENZENE	UG/L	10.0000		U												
1,3-DINITROBENZENE	UG/L	10.0000		U												
1,4-NAPHTHOQUINONE	UG/L	10.0000		UJ												
1-NAPHTHYLAMINE	UG/L	120.0000		U												
2,3,4,6-TETRACHLOROPHENOL	UG/L	10.0000		U												
2,6-DICHLOROPHENOL	UG/L	10.0000		UJ												
2-ACETYLAMINOFLUORENE	UG/L	10.0000		U												
2-CHLORO-1,3-BUTADIENE	UG/L	10.0000		U												
2-NAPHTHYLAMINE	UG/L	170.0000		U												
2-PICOLINE	UG/L	70.0000		UJ												
3,3'-DIMETHYLBENZIDINE	UG/L	80.0000		U												
3-CHLOROPROPENE	UG/L	10.0000		U												
3-METHYLCHOLANTHRENE	UG/L	30.0000		U												
3-METHYLPHENOL	UG/L	10.0000		U												
4-AMINOBIPHENYL	UG/L	50.0000		UJ												
4-CHLOROANILINE	UG/L	10.0000		U												
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000		UJ												
5-NITRO-O-TOLUIDINE	UG/L	20.0000		UJ												
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000		UJ												
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000		R												
ACETONITRILE	UG/L	12.0000		J												
ACETOPHENONE	UG/L	10.0000		UJ												
ACROLEIN	UG/L	20.0000		U												
ACROLEIN	UG/L	20.0000		U												
ACRYLONITRILE	UG/L	20.0000		U												
ANILINE	UG/L	50.0000		U												
ARAMITE	UG/L	10.0000		U												
DIALLATE	UG/L	10.0000		UJ												
DIBROMOMETHANE	UG/L	10.0000		U												
DICHLORODIFLUOROMETHANE	UG/L	200.0000		U												
DINOSEB	UG/L	0.7600		U												
DIPHENYLAMINE	UG/L	10.0000		UJ												
ETHYL CYANIDE	UG/L	10.0000		U												
ETHYL METHACRYLATE	UG/L	10.0000		U												
ETHYL METHANESULFONATE	UG/L	10.0000		UJ												
HEXACHLOROPHENE	UG/L	50.0000		R												
HEXACHLOROPROPENE	UG/L	20.0000		R												
IODOMETHANE	UG/L	10.0000		U												

SAMPLE NUMBER:		063909		063947			063952			123036			123047		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
ISODRIN	UG/L	0.0500		UJ												
ISOSAFROLE	UG/L	10.0000		UJ												
KEPONE	UG/L	0.1000		UJ												
METHACRYLONITRILE	UG/L	10.0000		U												
METHAPYRILENE	UG/L	40.0000		R												
METHYL METHACRYLATE	UG/L	10.0000		U												
METHYL METHANESULFONATE	UG/L	10.0000		UJ												
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000		UJ												
N-NITROSODIETHYLAMINE	UG/L	10.0000		UJ												
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000		UJ												
N-NITROSOMORPHOLINE	UG/L	10.0000		UJ												
N-NITROSOPIPERIDINE	UG/L	10.0000		UJ												
N-NITROSOPYRROLIDINE	UG/L	10.0000		UJ												
O-TOLUIDINE	UG/L	10.0000		UJ												
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000		U												
P-PHENYLENEDIAMINE	UG/L	50.0000		UJ												
PENTACHLOROBENZENE	UG/L	20.0000		U												
PENTACHLOROETHANE	UG/L	20.0000		UJ												
PENTACHLORONITROBENZENE	UG/L	20.0000		U												
PHENACETIN	UG/L	10.0000		U												
PRONAMIDE	UG/L	30.0000		U												
SAFROLE	UG/L	10.0000		UJ												
TETRAETHYLPYROPHOSPHATE	UG/L	120.0000		U												
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	10.0000		U												
ORGANOPHOSPHORUS																
DIMETHOATE	UG/L	30.0000		U												
DISULFOTON	UG/L	30.0000		U												
FAMPHUR	UG/L	30.0000		U												
METHYL PARATHION	UG/L	30.0000		U												
PARATHION	UG/L	30.0000		U												
PHORATE	UG/L	30.0000		U												
THIONAZIN	UG/L	30.0000		U												
PESTICIDES																
4,4'-DDD	UG/L	0.1000		UJ												
4,4'-DDE	UG/L	0.1000		UJ												
4,4'-DDT	UG/L	0.1000		UJ												
ALDRIN	UG/L	0.0500		UJ												
ALPHA-BHC	UG/L	0.0500		UJ												
ALPHA-CHLORDANE	UG/L	0.5000		UJ												
AROCLOR-1016	UG/L	0.5000		UJ												
AROCLOR-1221	UG/L	0.5000		UJ												

SAMPLE NUMBER:		063909		063947			063952			123036			123047		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			-		
		RESULT	SIGMA	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES															
AROCLOR-1232	UG/L	0.5000	UJ												
AROCLOR-1242	UG/L	0.5000	UJ												
AROCLOR-1248	UG/L	0.5000	UJ												
AROCLOR-1254	UG/L	1.0000	UJ												
AROCLOR-1260	UG/L	1.0000	UJ												
BETA-BHC	UG/L	0.0500	UJ												
CHLOROBENZILATE	UG/L	0.1000	U												
DELTA-BHC	UG/L	0.0500	UJ												
DIELDRIN	UG/L	0.1000	UJ												
ENDOSULFAN II	UG/L	0.1000	UJ												
ENDOSULFAN SULFATE	UG/L	0.1000	UJ												
ENDOSULFAN-I	UG/L	0.0500	UJ												
ENDRIN	UG/L	0.1000	UJ												
ENDRIN KETONE	UG/L	0.1000	UJ												
GAMMA-BHC (LINDANE)	UG/L	0.0500	UJ												
GAMMA-CHLORDANE	UG/L	0.5000	UJ												
HEPTACHLOR	UG/L	0.0500	UJ												
HEPTACHLOR EPOXIDE	UG/L	0.0500	UJ												
METHOXYCHLOR	UG/L	0.5000	UJ												
SULFOTEP	UG/L	30.0000	U												
TOXAPHENE	UG/L	1.0000	UJ												
RADIONUCLIDES															
URANIUM-238	PCI/L			1246.0000	150	-				1540.0000	330	-	1570.0000	340	-
URANIUM, TOTAL	UG/L			3650.0000	480	-				4400.0000	610	-	4210.0000	580	-
URANIUM-234	PCI/L			1082.0000	132	-				1450.0000	310	-	1470.0000	320	-
THORIUM-230	PCI/L									4070.0000	1030	-	2870.0000	660	-
RADIUM-226	PCI/L			279.0000	40	J				9.7900	1.33	J	13.4000	1.7	J
URANIUM-235/236	PCI/L			79.5000	16.2	-				78.0000	19	-	71.0000	18.3	-
THORIUM-232	PCI/L									108.0000	34	-	66.7000	19.2	-
THORIUM, TOTAL	UG/L									981.0000	311	-	607.0000	175	-
RADIUM-228	PCI/L			26.8000	4.3	R				46.5000	5.1	J	55.6000	5.9	J
THORIUM-228	PCI/L									98.5000	31.8	-	70.0000	20	-
NEPTUNIUM-237	PCI/L									2.8800	1.78	J	1.8900	1.25	UJ
PLUTONIUM-239/240	PCI/L			1.0000		U				0.9300	.56	UJ	0.9200	.665	UJ
PLUTONIUM-238	PCI/L			1.0000		U				2.9200	1.42	-	1.3200	.773	UJ
STRONTIUM-90	PCI/L												24.6000	4.1	-
TECHNETIUM-99	PCI/L			90.8000	21.6	-				17.3000	10.8	UJ	17.6000	10.8	UJ
RUTHENIUM-106	PCI/L			150.0000		U				150.0000		UJ	150.0000		UJ
CESIUM-137	PCI/L			20.0000		U				17.0000		UJ	18.0000		UJ
GROSS ALPHA	PCI/L			5178.0000	900	NV									
GROSS BETA	PCI/L			3168.0000	417	NV									

SEMIVOLATILES																	
1,2,4-TRICHLOROBENZENE	UG/L	3.0000	J									10.0000		U	10.0000		UJ

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1378

SAMPLE NUMBER:	063909			063947			063952			123036			123047		
LAB:	IT									IT			IT		
SUFFIX/FILTERFLAG:	NONE-FIL			-			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,2-DICHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
1,3-DICHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
1,4-DICHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U							25.0000		U	25.0000		U
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4-DICHLOROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4-DIMETHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4-DINITROPHENOL	UG/L	50.0000		U							25.0000		U	25.0000		UJ
2,4-DINITROTOLUENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2,6-DINITROTOLUENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2-CHLORONAPHTHALENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2-CHLOROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2-METHYLNAPHTHALENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2-METHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2-NITROANILINE	UG/L	50.0000		U							25.0000		U	25.0000		UJ
2-NITROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U							10.0000		U	10.0000		U
3-NITROANILINE	UG/L	50.0000		U							25.0000		UR	25.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U							25.0000		U	25.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U							10.0000		U	10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		UJ
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U							10.0000		U	10.0000		U
4-METHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
4-NITROANILINE	UG/L	50.0000		U							25.0000		U	25.0000		U
4-NITROPHENOL	UG/L	50.0000		U							25.0000		U	12.0000		J
ACENAPHTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
ACENAPHTHYLENE	UG/L	10.0000		U							10.0000		U	10.0000		U
ANTHRACENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(A)ANTHRACENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(A)PYRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(B)FLUORANTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(K)FLUORANTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZOIC ACID	UG/L	50.0000		U												
BENZYL ALCOHOL	UG/L	10.0000		U							10.0000		U	10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U							10.0000		U	10.0000		UJ
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U							10.0000		U	10.0000		UJ
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U							1.0000		J	2.0000		J
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	7.0000		J							10.0000		U	10.0000		U
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
CARBAZOLE	UG/L															

001854

67094

SAMPLE NUMBER:		063909			063947			063952			123036			123047		
LAB:											IT			IT		
SUFFIX/FILTERFLAG:		-			-			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
CHRYSENE	UG/L	10.0000		U							10.0000		U	10.0000		U
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U							10.0000		U	10.0000		U
DIBENZOFURAN	UG/L	10.0000		U							10.0000		U	10.0000		U
DIETHYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
DIMETHYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
FLUORANTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
FLUORENE	UG/L	10.0000		U							10.0000		U	10.0000		U
HEXACHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
HEXACHLOROBUTADIENE	UG/L	10.0000		U							10.0000		U	10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U							10.0000		U	10.0000		UJ
HEXACHLOROETHANE	UG/L	10.0000		U							10.0000		U	10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
ISOPHORONE	UG/L	10.0000		U							10.0000		U	10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U							10.0000		U	10.0000		UJ
N-NITROSODIMETHYLAMINE	UG/L	10.0000		U												
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U							10.0000		U	10.0000		U
NAPHTHALENE	UG/L	10.0000		U							10.0000		U	10.0000		U
NITROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	30.0000		UJ												
P-CHLOROANILINE	UG/L										10.0000		U	10.0000		U
PENTACHLOROPHENOL	UG/L	50.0000		U							25.0000		U	25.0000		U
PHENANTHRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
PHENOL	MG/L	10.0000		U							10.0000		UR	10.0000		UR
PYRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	10.0000		U												
1,1,1-TRICHLOROETHANE	UG/L	32.0000		U							61.0000		J	62.0000		J
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U							10.0000		U	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U							10.0000		U	10.0000		U
1,1-DICHLOROETHANE	UG/L	5.0000		U							13.0000		U	13.0000		U
1,1-DICHLOROETHENE	UG/L	2.0000		J							2.0000		J	3.0000		J
1,2-DICHLOROETHANE	UG/L	2.0000		J							4.0000		J	4.0000		J
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U							10.0000		U	10.0000		U
1,2-DICHLOROPROPANE	UG/L	5.0000		U							10.0000		U	10.0000		U
2-BUTANONE	UG/L	10.0000		U							10.0000		UJ	10.0000		UJ
2-HEXANONE	UG/L	10.0000		U							10.0000		U	10.0000		U
4-METHYL-2-PENTANONE	UG/L	10.0000		U							10.0000		U	10.0000		U
ACETONE	UG/L	10.0000		U							4.0000		J	10.0000		U
BENZENE	UG/L	5.0000		U							10.0000		U	10.0000		U
BROMODICHLOROMETHANE	UG/L	5.0000		U							10.0000		U	10.0000		U
BROMOFORM	UG/L	5.0000		U							10.0000		U	10.0000		U

SAMPLE NUMBER:		063909		063947		063952		123036		123047	
LAB:		IT						IT		IT	
SUFFIX/FILTERFLAG:		NONE-FIL		-		-		NONE-FIL		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
BROMOMETHANE	UG/L	10.0000	U					10.0000	U	10.0000	U
CARBON DISULFIDE	UG/L	5.0000	U					10.0000	U	10.0000	U
CARBON TETRACHLORIDE	UG/L	5.0000	U					10.0000	U	10.0000	U
CHLOROBENZENE	UG/L	5.0000	U					10.0000	U	10.0000	U
CHLOROETHANE	UG/L	10.0000	U					10.0000	U	10.0000	U
CHLOROFORM	UG/L	7.0000	U					8.0000	J	8.0000	J
CHLOROMETHANE	UG/L	10.0000	U					10.0000	U	10.0000	U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	U					10.0000	U	10.0000	U
DIBROMOCHLOROMETHANE	UG/L	5.0000	U					10.0000	U	10.0000	U
ETHYLBENZENE	UG/L	5.0000	U					10.0000	U	10.0000	U
ISOBUTYL ALCOHOL	UG/L	200.0000	UJ								
METHYLENE CHLORIDE	UG/L	20.0000	-					10.0000	U	10.0000	U
STYRENE	UG/L	5.0000	U					10.0000	U	10.0000	U
TETRACHLOROETHENE	UG/L	5.0000	U					10.0000	U	10.0000	U
TOLUENE	UG/L	5.0000	U					10.0000	U	10.0000	U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	U					10.0000	U	10.0000	U
TRICHLOROETHENE	UG/L	5.0000	U					10.0000	U	10.0000	U
TRICHLOROFLUOROMETHANE	UG/L	10.0000	U								
VINYL ACETATE	UG/L	10.0000	U					10.0000	U	10.0000	U
VINYL CHLORIDE	UG/L	1.0000	J					10.0000	U	10.0000	U
XYLENES, TOTAL	UG/L	5.0000	U					10.0000	U	10.0000	U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	063907	063948	123032	063930	063949
TASK:	10.03.01	10.03.01	10.03.08	10.03.01	10.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1769	1769	1769	1770	1770
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-OCT-91	15-NOV-91	24-JUN-93	07-NOV-91	15-NOV-91
NORTH COORDINATE:	481474.32	481474.32	481474.32	481680.61	481680.61
EAST COORDINATE:	1378468.56	1378468.56	1378468.56	1378159.99	1378159.99
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	F-UNF	NONE-FIL	NONE-FIL	F-UNF

		063907 RESULT	SIGMA	VAL QUAL(1)	063948 RESULT	SIGMA	VAL QUAL(1)	123032 RESULT	SIGMA	VAL QUAL(1)	063930 RESULT	SIGMA	VAL QUAL(1)	063949 RESULT	SIGMA	VAL QUAL(1)
BROMIDE	MG/L										200.0000		U			
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L	0.8400		UJ							0.4500		U			
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L	1.5000		U							0.7800		U			
1,2,3,4,7,8,9-HEPTACHLORODIBEN	NG/L	2.2000		U							1.1000		U			
1,2,3,4,7,8-HEXACHLORODIBENZO-N	G/L	1.6000		U							0.9800		U			
1,2,3,4,7,8-HEXACHLORODIBENZOFN	G/L	1.6000		U							0.6500		U			
1,2,3,6,7,8-HEXACHLORODIBENZO-N	G/L	1.3000		U							0.7800		U			
1,2,3,6,7,8-HEXACHLORODIBENZOFN	G/L	1.5000		U							0.5700		U			
1,2,3,7,8,9-HEXACHLORODIBENZO-N	G/L	1.4000		U							0.8200		U			
1,2,3,7,8,9-HEXACHLORODIBENZOFN	G/L	1.9000		U							0.7500		U			
1,2,3,7,8-PENTACHLORODIBENZO-PN	G/L	1.0000		U							3.5000		U			
1,2,3,7,8-PENTACHLORODIBENZOFUN	G/L	1.0000		U							0.4900		U			
1,4-DIOXANE	UG/L	12.0000		J							1000.0000		J			
2,3,4,6,7,8-HEXACHLORODIBENZOFN	G/L	1.7000		U							0.6800		U			
2,3,4,7,8-PENTACHLORODIBENZOFUN	G/L	1.1000		U							0.5300		U			
2,3,7,8-TETRACHLORODIBENZO-P-DN	G/L	1.1000		U							0.9200		U			
2,3,7,8-TETRACHLORODIBENZOFURAN	G/L	0.6500		U							0.8700		U			
HEPTACHLORODIBENZO-P-DIOXINS	NG/L	0.8400		UJ							0.4500		U			
HEPTACHLORODIBENZOFURANS	NG/L	1.8000		U							0.9200		U			
HEXACHLORODIBENZO-P-DIOXINS	NG/L	3.0000		U							0.8500		U			
HEXACHLORODIBENZOFURANS	NG/L	1.7000		U							0.6500		U			
OCTACHLORODIBENZO-P-DIOXIN	NG/L	4.2000		J							3.1000		J			
OCTACHLORODIBENZOFURAN	NG/L	1.4000		U							0.3800		UJ			
PENTACHLORODIBENZO-P-DIOXINS	NG/L	1.0000		U							3.5000		U			
PENTACHLORODIBENZOFURANS	NG/L	1.1000		U							0.5100		U			
TETRACHLORODIBENZO-P-DIOXINS	NG/L	0.4400		U							0.2700		U			
TETRACHLORODIBENZOFURANS	NG/L	0.5400		U							0.2700		U			

001857

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	063907			063948			123032			063930			063949		
LAB:	IT									IT					
SUFFIX/FILTERFLAG:	NONE-FIL			-			-			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L										470.0000		-			
AMMONIA	MG/L	73.8000		J							2277.0000		-			
CHLORIDE	MG/L	1816.0000		-							15000.0000		-			
FLUORIDE	MG/L	61.0000		-							80.0000		U			
NITRATE	MG/L	232.0000		J							5338.0000		-			
PH	STD										7.3200		-			
PHOSPHATE	MG/L										200.0000		U			
PHOSPHORUS	MG/L	25.3000		-												
SULFATE	MG/L	198.0000		-							4000.0000		-			
SULFIDE	MG/L	0.5000		U							0.5000		U			
TOTAL ORGANIC CARBON	MG/L	3.4800		J							23.3000		-			
HERBICIDES																
2,4,5-T	UG/L	2.2000		U							4.1000		U			
2,4,5-TP (SILVEX)	UG/L	2.0000		U							3.7000		U			
2,4-D	UG/L	11.0000		U							21.0000		U			
INORGANICS																
ALUMINUM	MG/L	0.4060		-	2.7400		J	4.0400		J	0.9420		J	3.3400		J
ANTIMONY	MG/L	0.1840		-	0.1760		-	0.0050		UJ	0.6560		-	0.6420		-
ARSENIC	MG/L	0.0274		J	0.0391		-	0.0202		J	0.2400		J	0.2700		J
BARIUM	MG/L	0.3190		-	0.3400		J	0.6020		-	0.1680		J	0.4040		J
BERYLLIUM	MG/L	0.0026		J	0.0036		-	0.0020		U	0.0052		-	0.0062		J
BORON	MG/L	0.9320		-	0.4700		J				5.4800		J	5.1300		J
CADMIUM	MG/L	0.0488		-	0.0451		J	0.0050		U	0.3110		J	0.4060		J
CALCIUM	MG/L	753.0000		-	769.0000		-	939.0000		-	1870.0000		-	1740.0000		J
CHROMIUM	MG/L	0.0889		-	0.1090		-	0.0250		-	0.0100		U	0.0100		UJ
COBALT	MG/L	0.0521		J	0.0872		J	0.0643		-	0.1170		J	0.1280		J
COPPER	MG/L	0.0424		-	0.0911		J	0.0601		-	0.4910		J	0.6000		J
CYANIDE	MG/L	0.0388		R				0.1240		-	0.0275		J			
IRON	MG/L	0.1040		-	3.2400		J	3.6100		-	0.2590		J	3.5800		J
LEAD	MG/L	0.0020		U	0.0446		-	0.0539		-	0.0020		UJ	0.1690		-
MAGNESIUM	MG/L	338.0000		-	301.0000		-	370.0000		-	4140.0000		-	3830.0000		-
MANGANESE	MG/L	3.6300		J	3.5900		-	6.2700		-	132.0000		-	134.0000		-
MERCURY	MG/L	0.0019		-	0.0002		UJ	0.0002		U	0.0006		-	0.0003		J
MOLYBDENUM	MG/L	0.1690		J	0.0825		J	0.0200		U	2.3400		J	2.3100		J
NICKEL	MG/L	0.1070		-	0.1700		J	0.1680		-	0.0200		UJ	0.0200		UJ
POTASSIUM	MG/L	39.9000		-	18.0000		-	20.2000		-	480.0000		-	431.0000		-
SELENIUM	MG/L	0.0146		J	0.0060		J	0.0020		UJ	0.0670		J	0.0133		J
SILICON	MG/L	5.5100		-	8.2300		J	10.2000		-	2.4600		J	5.0400		J
SILVER	MG/L	0.0801		J	0.0836		J	0.0100		U	0.1410		J	0.1400		J
SODIUM	MG/L	147.0000		-	92.8000		-	130.0000		-	3410.0000		-	2960.0000		-
THALLIUM	MG/L	0.0100		J	0.0020		UJ	0.0100		UR	0.0244		J	0.1910		J

SAMPLE NUMBER:		063907		063948		123032		063930		063949	
LAB:		IT		IT		IT		IT		IT	
SUFFIX/FILTERFLAG:		NONE-FIL		F-UNF		NONE-FIL		NONE-UNF		F-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
TIN	MG/L	0.2000	U	0.2000	U			0.2000	U	0.2000	U
VANADIUM	MG/L	0.0925	-	0.1020	J	0.0285	-	0.4600	J	0.6430	J
ZINC	MG/L	0.0220	-	0.0388	J	0.0515	-	0.0434	-	0.0934	-
MISC											
1,2,3-TRICHLOROPROPANE	UG/L	10.0000	U					10.0000	U		
1,2,4,5-TETRACHLOROBENZENE	UG/L	10.0000	R					10.0000	R		
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	10.0000	U					10.0000	U		
1,2-DIBROMOETHANE	UG/L	10.0000	U					10.0000	U		
1,3,5-TRINITROBENZENE	UG/L	10.0000	R					10.0000	R		
1,3-DINITROBENZENE	UG/L	10.0000	R					10.0000	R		
1,4-NAPHTHOQUINONE	UG/L	10.0000	R					10.0000	R		
1-NAPHTHYLAMINE	UG/L	120.0000	R					120.0000	R		
2,3,4,6-TETRACHLOROPHENOL	UG/L	10.0000	U					10.0000	R		
2,6-DICHLOROPHENOL	UG/L	10.0000	UJ					10.0000	R		
2-ACETYLAMINOFLUORENE	UG/L	10.0000	R					10.0000	R		
2-CHLORO-1,3-BUTADIENE	UG/L	10.0000	U					10.0000	UJ		
2-NAPHTHYLAMINE	UG/L	170.0000	R					170.0000	R		
2-PICOLINE	UG/L	70.0000	R					70.0000	R		
3,3'-DIMETHYLBENZIDINE	UG/L	80.0000	R					80.0000	R		
3-CHLOROPROPENE	UG/L	10.0000	U					10.0000	UJ		
3-METHYLCHOLANTHRENE	UG/L	30.0000	R					30.0000	R		
3-METHYLPHENOL	UG/L	10.0000	U					10.0000	R		
4-AMINOBIPHENYL	UG/L	50.0000	R					50.0000	R		
4-CHLOROANILINE	UG/L	10.0000	R					10.0000	R		
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000	R					10.0000	R		
5-NITRO-O-TOLUIDINE	UG/L	20.0000	R					20.0000	R		
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000	R					20.0000	R		
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000	R					10.0000	R		
ACETONITRILE	UG/L	20.0000	U					58.0000	J		
ACETOPHENONE	UG/L	10.0000	R					3.0000	R		
ACROLEIN	UG/L	20.0000	U					20.0000	UJ		
ACROLEIN	UG/L	20.0000	U					20.0000	UJ		
ACRYLONITRILE	UG/L	20.0000	R					20.0000	R		
ANILINE	UG/L	50.0000	R					50.0000	R		
ARAMITE	UG/L	10.0000	R					10.0000	R		
DIALLATE	UG/L	10.0000	R					10.0000	R		
DIBROMOMETHANE	UG/L	10.0000	U					10.0000	U		
DICHLORODIFLUOROMETHANE	UG/L	200.0000	R					200.0000	R		
DINOSEB	UG/L	0.7600	U					1.4000	U		
DIPHENYLAMINE	UG/L	10.0000	R					10.0000	R		
ETHYL CYANIDE	UG/L	10.0000	U					4.0000	J		
ETHYL METHACRYLATE	UG/L	10.0000	U					10.0000	U		
ETHYL METHANESULFONATE	UG/L	10.0000	R					10.0000	R		

SAMPLE NUMBER:		063907		063948		123032		063930		063949	
LAB:		IT						IT			
SUFFIX/FILTERFLAG:		NONE-FIL		-		-		R-FIL		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
MISC											
HEXACHLOROPHENE	UG/L	50.0000	R					50.0000	R		
HEXACHLOROPROPENE	UG/L	20.0000	R					20.0000	R		
IODOMETHANE	UG/L	10.0000	U					10.0000	U		
ISODRIN	UG/L	0.0500	UJ					0.5000	U		
ISOSAFROLE	UG/L	10.0000	R					10.0000	R		
KEPONE	UG/L	0.1000	UJ					1.0000	U		
METHACRYLONITRILE	UG/L	10.0000	U					10.0000	U		
METHAPYRILENE	UG/L	40.0000	R					40.0000	R		
METHYL METHACRYLATE	UG/L	10.0000	U					10.0000	U		
METHYL METHANESULFONATE	UG/L	10.0000	R					10.0000	R		
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000	R					20.0000	R		
N-NITROSODIETHYLAMINE	UG/L	10.0000	R					10.0000	R		
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000	R					10.0000	R		
N-NITROSOMORPHOLINE	UG/L	10.0000	R					10.0000	R		
N-NITROSOPIPERIDINE	UG/L	10.0000	R					10.0000	R		
N-NITROSOPYRROLIDINE	UG/L	10.0000	R					10.0000	R		
O-TOLUIDINE	UG/L	10.0000	R					10.0000	R		
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000	R					30.0000	R		
P-PHENYLENEDIAMINE	UG/L	50.0000	R					50.0000	R		
PENTACHLOROBENZENE	UG/L	20.0000	R					20.0000	R		
PENTACHLOROETHANE	UG/L	20.0000	R					20.0000	R		
PENTACHLORONITROBENZENE	UG/L	20.0000	R					20.0000	R		
PHENACETIN	UG/L	10.0000	R					10.0000	R		
PRONAMIDE	UG/L	30.0000	R					30.0000	R		
SAFROLE	UG/L	10.0000	R					10.0000	R		
TETRAETHYLPYROPHOSPHATE	UG/L	12.0000	U								
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	10.0000	U					10.0000	UJ		
ORGANOPHOSPHORUS											
DIMETHOATE	UG/L	3.0000	U								
DISULFOTON	UG/L	3.0000	U								
FAMPHUR	UG/L	3.0000	U								
METHYL PARATHION	UG/L	3.0000	U								
PARATHION	UG/L	3.0000	U								
PHORATE	UG/L	3.0000	U								
THIONAZIN	UG/L	3.0000	U								
PESTICIDES											
4,4'-DDD	UG/L	0.1000	UJ					1.0000	U		
4,4'-DDE	UG/L	0.1000	UJ					1.0000	U		
4,4'-DDT	UG/L	0.1000	UJ					1.0000	U		
ALDRIN	UG/L	0.0500	UJ					0.5000	U		
ALPHA-BHC	UG/L	0.0500	UJ					0.5000	U		

SAMPLE NUMBER:		063907			063948			123032			063930			063949		
LAB:		IT									IT					
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			DL-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ALPHA-CHLORDANE	UG/L	0.5000		UJ							5.0000		U			
AROCLOR-1016	UG/L	0.5000		UJ							5.0000		U			
AROCLOR-1221	UG/L	0.5000		UJ							5.0000		U			
AROCLOR-1232	UG/L	0.5000		UJ							5.0000		U			
AROCLOR-1242	UG/L	0.5000		UJ							5.0000		U			
AROCLOR-1248	UG/L	0.5000		UJ							5.0000		U			
AROCLOR-1254	UG/L	1.0000		UJ							10.0000		U			
AROCLOR-1260	UG/L	1.0000		UJ							10.0000		U			
BETA-BHC	UG/L	0.0500		UJ							0.5000		U			
CHLOROBENZILATE	UG/L	0.1000		UJ							0.1000		R			
DELTA-BHC	UG/L	0.0500		UJ							0.5000		U			
DIELDRIN	UG/L	0.1000		UJ							1.0000		U			
ENDOSULFAN II	UG/L	0.1000		UJ							1.0000		U			
ENDOSULFAN SULFATE	UG/L	0.1000		UJ							1.0000		U			
ENDOSULFAN-I	UG/L	0.0500		UJ							0.5000		U			
ENDRIN	UG/L	0.1000		UJ							1.0000		U			
ENDRIN KETONE	UG/L	0.1000		UJ							1.0000		U			
GAMMA-BHC (LINDANE)	UG/L	0.0500		UJ							0.5000		U			
GAMMA-CHLORDANE	UG/L	0.5000		UJ							5.0000		U			
HEPTACHLOR	UG/L	0.0500		UJ							0.5000		U			
HEPTACHLOR EPOXIDE	UG/L	0.0500		UJ							0.5000		U			
METHOXYCHLOR	UG/L	0.5000		UJ							5.0000		U			
SULFOTEP	UG/L	3.0000		R							10.0000		R			
TOXAPHENE	UG/L	1.0000		UJ							10.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L				267.0000	35	-	215.0000	48	-				504.0000	60	-
URANIUM, TOTAL	UG/L				776.0000	103	-	557.0000	77	-				1060.0000	140	-
URANIUM-234	PCI/L				188.0000	25	-	168.0000	38	-				396.0000	48	-
THORIUM-230	PCI/L							479.0000	103	-						
RADIUM-226	PCI/L				72.4000	10.4	J	5.2500	.8	J						
URANIUM-235/236	PCI/L				11.6000	3	-	8.6700	2.25	-				25.8000	6.4	-
THORIUM-232	PCI/L							9.1000	2.13	-						
THORIUM, TOTAL	UG/L							83.0000	19.4	-						
RADIUM-228	PCI/L				3.1000	1.13	R	13.9000	1.9	J						
THORIUM-228	PCI/L							9.1800	2.14	-						
NEPTUNIUM-237	PCI/L							0.5000	.129	U						
PLUTONIUM-239/240	PCI/L				1.0000		U	0.5000	.0824	UJ						
PLUTONIUM-238	PCI/L				1.0000		U	0.5000	.126	UJ						
STRONTIUM-90	PCI/L				6.5600	1.53	-	1.0000	.292	UJ						
TECHNETIUM-99	PCI/L				30.0000		U	17.2000	9.97	UJ				212.0000	35	J
RUTHENIUM-106	PCI/L				150.0000		U	150.0000		UJ				150.0000		R
CESIUM-137	PCI/L				20.0000		U	11.0000		UJ				20.0000		R
GROSS ALPHA	PCI/L				991.0000	168	NV							5109.0000	103	NV

001861

SAMPLE NUMBER:		063907			063948			123032			063930			063949		
LAB:					IT									IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
GROSS BETA	PCI/L				417.0000	58	NV							2596.0000	420	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
1,2-DICHLOROBENZENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
1,3-DICHLOROBENZENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
1,4-DICHLOROBENZENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U				25.0000		U	50.0000		R			
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
2,4-DICHLOROPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
2,4-DIMETHYLPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
2,4-DINITROPHENOL	UG/L	50.0000		U				25.0000		U	50.0000		R			
2,4-DINITROTOLUENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
2,6-DINITROTOLUENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
2-CHLORONAPHTHALENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
2-CHLOROPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
2-METHYLNAPHTHALENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
2-METHYLPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
2-NITROANILINE	UG/L	50.0000		R				25.0000		U	50.0000		R			
2-NITROPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		R				10.0000		U	20.0000		UJ			
3-NITROANILINE	UG/L	50.0000		R				25.0000		UR	50.0000		R			
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U				25.0000		U	50.0000		R			
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		R				10.0000		U	10.0000		R			
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		R				10.0000		U	10.0000		R			
4-METHYLPHENOL	UG/L	10.0000		U				10.0000		U	10.0000		R			
4-NITROANILINE	UG/L	50.0000		R				25.0000		U	50.0000		R			
4-NITROPHENOL	UG/L	50.0000		U				25.0000		U	50.0000		R			
ACENAPHTHENE	UG/L	12.0000		J				12.0000		-	10.0000		R			
ACENAPHTHYLENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
ANTHRACENE	UG/L	2.0000		J				2.0000		J	10.0000		UJ			
BENZO(A)ANTHRACENE	UG/L	10.0000		R				1.0000		J	10.0000		UJ			
BENZO(A)PYRENE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
BENZO(B)FLUORANTHENE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
BENZO(G,H,I)PERYLENE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
BENZO(K)FLUORANTHENE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
BENZOIC ACID	UG/L	50.0000		U							50.0000		R			
BENZYL ALCOHOL	UG/L	10.0000		U							10.0000		R			
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		R				10.0000		U	10.0000		R			
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		R				10.0000		U	10.0000		R			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		R				10.0000		U	10.0000		R			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		R				2.0000		J	10.0000		UJ			
BUTYL BENZYL PHTHALATE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			

SAMPLE NUMBER:		063907			063948			123032			063930			063949		
LAB:		IT						IT			IT					
SUFFIX/FILTERFLAG:		NONE-FIL			-			NONE-FIL			R-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
CARBAZOLE	UG/L							7.0000		J						
CHRYSENE	UG/L	10.0000		R				2.0000		J	10.0000		UJ			
DI-N-BUTYL PHTHALATE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
DI-N-OCTYL PHTHALATE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
DIBENZOFURAN	UG/L	5.0000		J				8.0000		J	10.0000		R			
DIETHYL PHTHALATE	UG/L	10.0000		R				10.0000		U	10.0000		R			
DIMETHYL PHTHALATE	UG/L	10.0000		R				10.0000		U	10.0000		R			
FLUORANTHENE	UG/L	9.0000		J				9.0000		J	10.0000		UJ			
FLUORENE	UG/L	6.0000		J				13.0000		-	10.0000		R			
HEXACHLOROBENZENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
HEXACHLOROBUTADIENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
HEXACHLOROETHANE	UG/L	10.0000		R				10.0000		U	10.0000		R			
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		R				10.0000		U	10.0000		UJ			
ISOPHORONE	UG/L	10.0000		R				10.0000		U	10.0000		R			
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		R				10.0000		U	10.0000		R			
N-NITROSODIMETHYLAMINE	UG/L	10.0000		R							10.0000		R			
N-NITROSODIPHENYLAMINE	UG/L	10.0000		R				10.0000		U	10.0000		R			
NAPHTHALENE	UG/L	10.0000		R				2.0000		J	10.0000		R			
NITROBENZENE	UG/L	10.0000		R				10.0000		U	10.0000		R			
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	3.0000		R							10.0000		R			
P-CHLOROANILINE	UG/L							10.0000		U						
PENTACHLOROPHENOL	UG/L	50.0000		U				25.0000		U	56.0000		R			
PHENANTHRENE	UG/L	10.0000		R				35.0000		-	10.0000		UJ			
PHENOL	MG/L	10.0000		U				10.0000		U	10.0000		R			
PYRENE	UG/L	7.0000		J				8.0000		J	10.0000		UJ			
PYRIDINE	UG/L										10.0000		R			
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L	10.0000		U							10.0000		U			
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U				37.0000		-	5.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U				10.0000		U	5.0000		U			
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U				10.0000		U	5.0000		U			
1,1-DICHLOROETHANE	UG/L	5.0000		U				10.0000		U	5.0000		U			
1,1-DICHLOROETHENE	UG/L	5.0000		U				10.0000		U	5.0000		U			
1,2-DICHLOROETHANE	UG/L	5.0000		U				10.0000		U	5.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U				10.0000		U	5.0000		U			
1,2-DICHLOROPROPANE	UG/L	5.0000		U				10.0000		U	5.0000		U			
2-BUTANONE	UG/L	10.0000		U				10.0000		UJ	44.0000		-			
2-HEXANONE	UG/L	10.0000		U				10.0000		U	40.0000		-			
4-METHYL-2-PENTANONE	UG/L	10.0000		U				10.0000		U	25.0000		-			
ACETONE	UG/L	10.0000		UJ				16.0000		J	240.0000		-			
BENZENE	UG/L	5.0000		U				10.0000		U	5.0000		UJ			

SAMPLE NUMBER:		063907			063948			123032			063930			063949		
LAB:		IT						IT			IT					
SUFFIX/FILTERFLAG:		NONE-FIL			-			NONE-FIL			NONE-FIL			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMODICHLOROMETHANE	UG/L	5.0000		U				10.0000		U	5.0000		U			
BROMOFORM	UG/L	5.0000		U				10.0000		U	5.0000		U			
BROMOMETHANE	UG/L	10.0000		UJ				10.0000		U	10.0000		U			
CARBON DISULFIDE	UG/L	5.0000		U				10.0000		U	5.0000		U			
CARBON TETRACHLORIDE	UG/L	5.0000		U				10.0000		U	5.0000		U			
CHLOROBENZENE	UG/L	5.0000		U				10.0000		U	5.0000		UJ			
CHLOROETHANE	UG/L	10.0000		U				10.0000		U	10.0000		U			
CHLOROFORM	UG/L	5.0000		U				10.0000		U	71.0000		-			
CHLOROMETHANE	UG/L	10.0000		UJ				10.0000		UJ	10.0000		UJ			
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U				10.0000		U	5.0000		U			
DIBROMOCHLOROMETHANE	UG/L	5.0000		U				10.0000		U	5.0000		U			
ETHYLBENZENE	UG/L	5.0000		U				10.0000		U	5.0000		UJ			
ISOBUTYL ALCOHOL	UG/L	200.0000		UJ							48.0000		J			
METHYLENE CHLORIDE	UG/L	5.0000		U				10.0000		U	2.0000		U			
STYRENE	UG/L	5.0000		U				10.0000		U	5.0000		UJ			
TETRACHLOROETHENE	UG/L	5.0000		U				10.0000		U	2.0000		J			
TOLUENE	UG/L	5.0000		U				10.0000		U	5.0000		UJ			
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U				10.0000		UJ	5.0000		U			
TRICHLOROETHENE	UG/L	5.0000		U				10.0000		U	5.0000		U			
TRICHLOROFLUOROMETHANE	UG/L	10.0000		U							10.0000		U			
VINYL ACETATE	UG/L	10.0000		U				10.0000		U	10.0000		U			
VINYL CHLORIDE	UG/L	160.0000		-				20.0000		-	10.0000		U			
XYLENES, TOTAL	UG/L	5.0000		U				10.0000		U	5.0000		UJ			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	123013	123015	063926	063950	123016
TASK:	10.03.08	10.03.08	10.03.01	10.03.01	10.03.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1770	1770	1771	1771	1771
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-JUN-93	22-JUN-93	06-NOV-91	15-NOV-91	22-JUN-93
NORTH COORDINATE:	481680.61	481680.61	481638.22	481638.22	481638.22
EAST COORDINATE:	1378159.99	1378159.99	1378298.05	1378298.05	1378298.05
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-FIL	F-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
BROMIDE	MG/L							200.0000		U						
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L							1.9000		J						
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L							0.9900		U						
1,2,3,4,7,8,9-HEPTACHLORODIBEN	NG/L							1.4000		U						
1,2,3,4,7,8-HEXACHLORODIBENZO-	NG/L							0.6600		U						
1,2,3,4,7,8-HEXACHLORODIBENZOF	NG/L							0.8900		U						
1,2,3,6,7,8-HEXACHLORODIBENZO-	NG/L							0.5200		U						
1,2,3,6,7,8-HEXACHLORODIBENZOF	NG/L							0.7900		U						
1,2,3,7,8,9-HEXACHLORODIBENZO-	NG/L							0.5500		U						
1,2,3,7,8,9-HEXACHLORODIBENZOF	NG/L							1.0000		U						
1,2,3,7,8-PENTACHLORODIBENZO-	PNG/L							1.6000		U						
1,2,3,7,8-PENTACHLORODIBENZOFU	NG/L							0.4700		U						
1,4-DIOXANE	UG/L							660.0000		J						
2,3,4,6,7,8-HEXACHLORODIBENZOF	NG/L							0.9300		U						
2,3,4,7,8-PENTACHLORODIBENZOFU	NG/L							0.5100		U						
2,3,7,8-TETRACHLORODIBENZO-P-D	NG/L							0.3600		U						
2,3,7,8-TETRACHLORODIBENZOFURA	NG/L							0.3400		U						
HEPTACHLORODIBENZO-P-DIOXINS	NG/L							3.5000		-						
HEPTACHLORODIBENZOFURANS	NG/L							1.5000		-						
HEXACHLORODIBENZO-P-DIOXINS	NG/L							0.5700		U						
HEXACHLORODIBENZOFURANS	NG/L							0.9000		U						
OCTACHLORODIBENZO-P-DIOXIN	NG/L							25.5000		J						
OCTACHLORODIBENZOFURAN	NG/L							1.2000		J						
PENTACHLORODIBENZO-P-DIOXINS	NG/L							1.6000		U						
PENTACHLORODIBENZOFURANS	NG/L							0.4800		U						
TETRACHLORODIBENZO-P-DIOXINS	NG/L							0.3000		U						
TETRACHLORODIBENZOFURANS	NG/L							0.3300		U						

001881

SAMPLE NUMBER:		123013			123015			063926			063950			123016		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							240.0000		-						
AMMONIA	MG/L							2625.0000		-						
CHLORIDE	MG/L							33000.0000		-						
FLUORIDE	MG/L							80.0000		U						
NITRATE	MG/L							4217.0000		-						
PH	STD							7.6900		-						
PHOSPHATE	MG/L							200.0000		U						
SULFATE	MG/L							4600.0000		-						
SULFIDE	MG/L							0.5000		U						
TOTAL ORGANIC CARBON	MG/L							25.1000		-						
HERBICIDES																
2,4,5-T	UG/L							4.1000		U						
2,4,5-TP (SILVEX)	UG/L							3.6000		U						
2,4-D	UG/L							20.0000		U						
INORGANICS																
ALUMINUM	MG/L	16.8000		J				6.4100		J	1.4800		J	1.5400		J
ANTIMONY	MG/L	0.0163		J				0.4450		-	0.6270		-	0.0050		UJ
ARSENIC	MG/L	0.5150		-				1.4900		J	0.2480		-	0.2280		-
BARIUM	MG/L	1.2800		-				0.5260		J	0.1740		J	0.0672		-
BERYLLIUM	MG/L	0.0020		U				0.0081		-	0.0054		-	0.0020		U
BORON	MG/L							3.8400		J	7.3600		J			
CADMIUM	MG/L	0.0050		U				0.1920		J	0.3830		J	0.0050		U
CALCIUM	MG/L	1810.0000		-				1010.0000		-	1920.0000		-	835.0000		-
CHROMIUM	MG/L	0.1470		-				0.1820		-	0.0194		J	0.0197		-
COBALT	MG/L	0.0614		-				0.0902		J	0.1190		J	0.0100		U
COPPER	MG/L	1.5000		-				0.7820		J	0.6220		J	0.0485		-
CYANIDE	MG/L	0.0020		U				0.0020		UJ				0.2180		-
IRON	MG/L	25.4000		-				12.2000		J	1.1400		J	1.2400		-
LEAD	MG/L	1.4500		-				1.6100		-	0.0608		-	0.0732		-
MAGNESIUM	MG/L	3850.0000		-				1570.0000		-	3150.0000		-	186.0000		-
MANGANESE	MG/L	149.0000		-				92.6000		-	178.0000		-	12.2000		-
MERCURY	MG/L	0.0008		J				0.0988		-	0.0268		-	0.0004		J
MOLYBDENUM	MG/L	1.6500		-				2.8000		J	5.2100		J	17.9000		-
NICKEL	MG/L	0.2430		-				0.0473		J	0.0200		UJ	0.0396		-
POTASSIUM	MG/L	428.0000		-				713.0000		-	698.0000		-	101.0000		-
SELENIUM	MG/L	0.0027		-				0.1400		-	0.1250		-	0.1780		-
SILICON	MG/L	17.2000		-				9.2200		-	3.2300		J	3.5400		-
SILVER	MG/L	0.0178		-				0.1300		J	0.1530		J	0.0100		U
SODIUM	MG/L	3110.0000		-				1880.0000		-	3850.0000		-	454.0000		-
THALLIUM	MG/L	0.1560		J				0.1070		J	0.1150		J	0.0051		J
TIN	MG/L							0.2000		U	0.2000		U			

SAMPLE NUMBER:		123013			123015			063926			063950			123016		
LAB:								IT			IT					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			F-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
VANADIUM	MG/L	2.4300		-				1.2400		J	0.6180		J	2.5800		-
ZINC	MG/L	0.3780		-				0.1580		-	0.0567		-	0.0395		U
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							10.0000		U						
1,2,4,5-TETRACHLOROBENZENE	UG/L							10.0000		R						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							10.0000		U						
1,2-DIBROMOETHANE	UG/L							10.0000		U						
1,3,5-TRINITROBENZENE	UG/L							10.0000		R						
1,3-DINITROBENZENE	UG/L							10.0000		R						
1,4-NAPHTHOQUINONE	UG/L							10.0000		R						
1-NAPHTHYLAMINE	UG/L							120.0000		R						
2,3,4,6-TETRACHLOROPHENOL	UG/L							10.0000		R						
2,6-DICHLOROPHENOL	UG/L							10.0000		R						
2-ACETYLAMINOFLUORENE	UG/L							10.0000		R						
2-CHLORO-1,3-BUTADIENE	UG/L							10.0000		UJ						
2-NAPHTHYLAMINE	UG/L							170.0000		R						
2-PICOLINE	UG/L							70.0000		R						
3,3'-DIMETHYLBENZIDINE	UG/L							80.0000		R						
3-CHLOROPROPENE	UG/L							10.0000		UJ						
3-METHYLCHOLANTHRENE	UG/L							30.0000		R						
3-METHYLPHENOL	UG/L							20.0000		R						
4-AMINOBIPHENYL	UG/L							50.0000		R						
4-CHLOROANILINE	UG/L							10.0000		R						
4-NITROQUINOLINE-1-OXIDE	UG/L							10.0000		R						
5-NITRO-O-TOLUIDINE	UG/L							20.0000		R						
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L							20.0000		R						
A,A-DIMETHYLPHENETHYLAMINE	UG/L							10.0000		R						
ACETONITRILE	UG/L							42.0000		J						
ACETOPHENONE	UG/L							10.0000		R						
ACROLEIN	UG/L							20.0000		UJ						
ACROLEIN	UG/L							20.0000		UJ						
ACRYLONITRILE	UG/L							7.0000		J						
ANILINE	UG/L							50.0000		R						
ARAMITE	UG/L							10.0000		R						
DIALLATE	UG/L							10.0000		R						
DIBROMOMETHANE	UG/L							10.0000		U						
DICHLORODIFLUOROMETHANE	UG/L							200.0000		R						
DINOSEB	UG/L							1.4000		U						
DIPHENYLAMINE	UG/L							10.0000		R						
ETHYL CYANIDE	UG/L							3.0000		J						
ETHYL METHACRYLATE	UG/L							10.0000		U						
ETHYL METHANESULFONATE	UG/L							10.0000		R						
HEXACHLOROPHENE	UG/L							50.0000		R						

SAMPLE NUMBER:	123013	123015	063926	063950	123016
LAB:			IT		
SUFFIX/FILTERFLAG:	-	-	R-FIL	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
HEXACHLOROPROPENE	UG/L							20.0000		R						
IODOMETHANE	UG/L							10.0000		U						
ISODRIN	UG/L							0.5000		U						
ISOSAFROLE	UG/L							10.0000		R						
KEPONE	UG/L							1.0000		U						
METHACRYLONITRILE	UG/L							1.0000		J						
METHAPYRILENE	UG/L							40.0000		R						
METHYL METHACRYLATE	UG/L							10.0000		U						
METHYL METHANESULFONATE	UG/L							10.0000		R						
N-NITROSODI-N-BUTYLAMINE	UG/L							20.0000		R						
N-NITROSODIETHYLAMINE	UG/L							10.0000		R						
N-NITROSOMETHYLETHYLAMINE	UG/L							10.0000		R						
N-NITROSOMORPHOLINE	UG/L							3.0000		R						
N-NITROSOPIPERIDINE	UG/L							10.0000		R						
N-NITROSOPYRROLIDINE	UG/L							10.0000		R						
O-TOLUIDINE	UG/L							10.0000		R						
P-DIMETHYLAMINOAZOBENZENE	UG/L							30.0000		R						
P-PHENYLENEDIAMINE	UG/L							50.0000		R						
PENTACHLOROBENZENE	UG/L							20.0000		R						
PENTACHLOROETHANE	UG/L							10.0000		R						
PENTACHLORONITROBENZENE	UG/L							20.0000		R						
PHENACETIN	UG/L							10.0000		R						
PRONAMIDE	UG/L							30.0000		R						
SAFROLE	UG/L							10.0000		R						
TRANS-1,4-DICHLORO-2-BUTENE	UG/L							10.0000		UJ						
PESTICIDES																
4,4'-DDD	UG/L							1.0000		U						
4,4'-DDE	UG/L							1.0000		U						
4,4'-DDT	UG/L							1.0000		U						
ALDRIN	UG/L							0.5000		U						
ALPHA-BHC	UG/L							0.5000		U						
ALPHA-CHLORDANE	UG/L							5.0000		U						
AROCLOR-1016	UG/L							5.0000		U						
AROCLOR-1221	UG/L							5.0000		U						
AROCLOR-1232	UG/L							5.0000		U						
AROCLOR-1242	UG/L							5.0000		U						
AROCLOR-1248	UG/L							5.0000		U						
AROCLOR-1254	UG/L							10.0000		U						
AROCLOR-1260	UG/L							10.0000		U						
BETA-BHC	UG/L							0.5000		U						
CHLOROBENZILATE	UG/L							1.0000		U						
DELTA-BHC	UG/L							0.5000		U						
DIELDRIN	UG/L							1.0000		U						

SAMPLE NUMBER:		123013			123015			063926			063950			123016		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			DL-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDOSULFAN II	UG/L							1.0000		U						
ENDOSULFAN SULFATE	UG/L							1.0000		U						
ENDOSULFAN-I	UG/L							0.5000		U						
ENDRIN	UG/L							1.0000		U						
ENDRIN KETONE	UG/L							1.0000		U						
GAMMA-BHC (LINDANE)	UG/L							0.5000		U						
GAMMA-CHLORDANE	UG/L							5.0000		U						
HEPTACHLOR	UG/L							0.5000		U						
HEPTACHLOR EPOXIDE	UG/L							0.5000		U						
METHOXYCHLOR	UG/L							5.0000		U						
SULFOTEP	UG/L							10.0000		UJ						
TOXAPHENE	UG/L							10.0000		U						
RADIONUCLIDES																
URANIUM-238	PCI/L				1350.0000	260	J				421.0000	53	-			
URANIUM, TOTAL	UG/L				1970.0000	290	-				824.0000	117	-			
URANIUM-234	PCI/L				1200.0000	230	J				410.0000	51	-			
THORIUM-230	PCI/L				12200.0000	3333	J									
RADIUM-226	PCI/L				241.0000	31.2	J									
URANIUM-235/236	PCI/L				59.4000	15	J				25.9000	4.9	-			
THORIUM-232	PCI/L				592.0000	172	J									
THORIUM, TOTAL	UG/L				5390.0000	1570	J									
RADIUM-228	PCI/L				820.0000	93.1	J									
THORIUM-228	PCI/L				634.0000	183	J									
NEPTUNIUM-237	PCI/L				6.1200	2.05	J									
PLUTONIUM-239/240	PCI/L				2.6700	1.22	J				1.0000		U			
PLUTONIUM-238	PCI/L				20.0000	5.1	-				1.0000		U			
STRONTIUM-90	PCI/L				152.0000	18	J									
TECHNETIUM-99	PCI/L				219.0000	32	-				351.0000	44	-			
RUTHENIUM-106	PCI/L				170.0000		UJ				150.0000		U			
CESIUM-137	PCI/L				20.0000		UJ				20.0000		U			
GROSS ALPHA	PCI/L										1710.0000	543	NV			
GROSS BETA	PCI/L										2328.0000	382	NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U				10.0000		R				10.0000		U
1,2-DICHLOROBENZENE	UG/L	10.0000		U				10.0000		R				10.0000		U
1,3-DICHLOROBENZENE	UG/L	10.0000		U				10.0000		R				10.0000		U
1,4-DICHLOROBENZENE	UG/L	10.0000		U				10.0000		R				10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	25.0000		UR				50.0000		R				25.0000		UR
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		UR				10.0000		R				10.0000		UR
2,4-DICHLOROPHENOL	UG/L	10.0000		UR				10.0000		R				10.0000		UR
2,4-DIMETHYLPHENOL	UG/L	10.0000		UR				10.0000		R				10.0000		UR

001869

SAMPLE NUMBER:		123013			123015			063926			063950			123016		
LAB:		IT						IT						IT		
SUFFIX/FILTERFLAG:		NONE-FIL			-			R-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DINITROPHENOL	UG/L	25.0000		UR				50.0000		R				25.0000		UR
2,4-DINITROTOLUENE	UG/L	10.0000		U				10.0000		R				10.0000		U
2,6-DINITROTOLUENE	UG/L	10.0000		U				10.0000		R				11.0000		-
2-BENZYL-4-CHLOROPHENOL	UG/L	10.0000		UNV										10.0000		UNV
2-CHLORONAPHTHALENE	UG/L	10.0000		U				10.0000		R				10.0000		U
2-CHLOROPHENOL	UG/L	10.0000		UR				10.0000		R				10.0000		UR
2-METHYLNAPHTHALENE	UG/L	10.0000		U				10.0000		R				10.0000		U
2-METHYLPHENOL	UG/L	10.0000		UR				10.0000		R				10.0000		UR
2-NITROANILINE	UG/L	25.0000		UJ				50.0000		R				25.0000		UJ
2-NITROPHENOL	UG/L	5.0000		J				10.0000		R				10.0000		UR
3,3'-DICHLOROBENZIDINE	UG/L	10.0000		U				20.0000		UJ				10.0000		U
3-NITROANILINE	UG/L	25.0000		U				50.0000		R				25.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25.0000		UR				50.0000		R				25.0000		UR
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U				10.0000		R				10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		UR				10.0000		R				10.0000		UR
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U				10.0000		R				10.0000		U
4-METHYLPHENOL	UG/L	10.0000		UR				10.0000		R				10.0000		UR
4-NITROANILINE	UG/L	25.0000		U				50.0000		R				25.0000		U
4-NITROPHENOL	UG/L	25.0000		UR				50.0000		R				6.0000		J
ACENAPHTHENE	UG/L	10.0000		U				10.0000		R				10.0000		U
ACENAPHTHYLENE	UG/L	10.0000		U				10.0000		R				10.0000		U
ANTHRACENE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
BENZO(A)ANTHRACENE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
BENZO(A)PYRENE	UG/L	10.0000		UJ				10.0000		UJ				10.0000		UJ
BENZO(B)FLUORANTHENE	UG/L	10.0000		UJ				10.0000		UJ				10.0000		UJ
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
BENZO(K)FLUORANTHENE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
BENZOIC ACID	UG/L	15.0000		J				50.0000		R				1.0000		J
BENZYL ALCOHOL	UG/L	1.0000		J				10.0000		R				10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U				10.0000		R				10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U				10.0000		R				10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U				10.0000		R				10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U				10.0000		UJ				1.0000		J
BUTYL BENZYL PHTHALATE	UG/L	10.0000		UJ				10.0000		UJ				10.0000		UJ
CARBAZOLE	UG/L	10.0000		U										10.0000		U
CHRYSENE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
DI-N-OCTYL PHTHALATE	UG/L	10.0000		UJ				10.0000		UJ				10.0000		UJ
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
DIBENZOFURAN	UG/L	10.0000		U				10.0000		R				10.0000		U
DIETHYL PHTHALATE	UG/L	10.0000		U				10.0000		R				10.0000		U
DIMETHYL PHTHALATE	UG/L	10.0000		U				10.0000		R				10.0000		U
FLUORANTHENE	UG/L	10.0000		U				10.0000		UJ				10.0000		U
FLUORENE	UG/L	10.0000		U				10.0000		R				10.0000		U
HEXACHLOROBENZENE	UG/L	10.0000		U				10.0000		R				10.0000		U

SAMPLE NUMBER:		123013		123015		063926			063950			123016	
LAB:		IT				IT						IT	
SUFFIX/FILTERFLAG:		NONE-FIL		-		R-FIL			-			NONE-FIL	
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
SEMIVOLATILES													
HEXACHLOROBUTADIENE	UG/L	10.0000	U			10.0000		R				10.0000	U
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	U			10.0000		R				10.0000	U
HEXACHLOROETHANE	UG/L	10.0000	U			10.0000		R				10.0000	U
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U			10.0000		UJ				10.0000	U
ISOPHORONE	UG/L	10.0000	U			10.0000		R				10.0000	U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	U			10.0000		R				1.0000	J
N-NITROSODIMETHYLAMINE	UG/L					10.0000		R					
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U			10.0000		R				10.0000	U
NAPHTHALENE	UG/L	2.0000	J			10.0000		R				2.0000	J
NITROBENZENE	UG/L	10.0000	U			10.0000		R				10.0000	U
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L					10.0000		R					
P-CHLOROANILINE	UG/L	10.0000	U									10.0000	U
PENTACHLOROPHENOL	UG/L	200.0000	J			13.0000		R				3.0000	J
PHENANTHRENE	UG/L	10.0000	U			10.0000		UJ				10.0000	U
PHENOL	MG/L	10.0000	UR			10.0000		R				10.0000	UR
PYRENE	UG/L	10.0000	U			10.0000		UJ				10.0000	U
PYRIDINE	UG/L					10.0000		R					
VOLATILES													
1,1,1,2-TETRACHLOROETHANE	UG/L					10.0000		U					
1,1,1-TRICHLOROETHANE	UG/L	10.0000	U			5.0000		U				10.0000	U
1,1,2,2-TETRACHLOROETHANE	UG/L	10.0000	U			5.0000		U				10.0000	U
1,1,2-TRICHLOROETHANE	UG/L	10.0000	U			5.0000		U				10.0000	U
1,1-DICHLOROETHANE	UG/L	10.0000	U			5.0000		U				10.0000	U
1,1-DICHLOROETHENE	UG/L	10.0000	U			5.0000		U				10.0000	U
1,2-DICHLOROETHANE	UG/L	1.0000	J			5.0000		U				10.0000	U
1,2-DICHLOROETHENE (TOTAL)	UG/L	10.0000	U			5.0000		U				10.0000	U
1,2-DICHLOROPROPANE	UG/L	10.0000	U			5.0000		U				10.0000	U
2-BUTANONE	UG/L	23.0000	-			6.0000		U				10.0000	U
2-HEXANONE	UG/L	7.0000	J			10.0000		U				10.0000	U
4-METHYL-2-PENTANONE	UG/L	29.0000	-			24.0000		-				10.0000	U
ACETONE	UG/L	83.0000	-			30.0000		-				11.0000	-
BENZENE	UG/L	10.0000	U			5.0000		UJ				10.0000	U
BROMODICHLOROMETHANE	UG/L	10.0000	U			5.0000		U				10.0000	U
BROMOFORM	UG/L	10.0000	U			5.0000		U				10.0000	U
BROMOMETHANE	UG/L	10.0000	U			10.0000		U				10.0000	U
CARBON DISULFIDE	UG/L	10.0000	U			5.0000		U				10.0000	U
CARBON TETRACHLORIDE	UG/L	10.0000	U			5.0000		U				10.0000	U
CHLOROBENZENE	UG/L	10.0000	U			5.0000		UJ				10.0000	U
CHLOROETHANE	UG/L	10.0000	U			10.0000		U				10.0000	U
CHLOROFORM	UG/L	67.0000	-			67.0000		-				10.0000	U
CHLOROMETHANE	UG/L	10.0000	U			10.0000		UJ				10.0000	U
CIS-1,3-DICHLOROPROPENE	UG/L	10.0000	U			5.0000		U				10.0000	U
DIBROMOCHLOROMETHANE	UG/L	10.0000	U			5.0000		U				10.0000	U

SAMPLE NUMBER:	123013			123015			063926			063950			123016		
LAB:	IT						IT						IT		
SUFFIX/FILTERFLAG:	NONE-FIL			-			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ETHYLBENZENE	UG/L	10.0000		U				5.0000		UJ				10.0000		U
ISOBUTYL ALCOHOL	UG/L							38.0000		J						
METHYLENE CHLORIDE	UG/L	10.0000		UJ				2.0000		U				10.0000		UJ
STYRENE	UG/L	10.0000		U				5.0000		UJ				10.0000		U
TETRACHLOROETHENE	UG/L	1.0000		J				1.0000		J				10.0000		U
TOLUENE	UG/L	10.0000		U				5.0000		UJ				10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	10.0000		U				5.0000		U				10.0000		U
TRICHLOROETHENE	UG/L	10.0000		U				5.0000		U				10.0000		U
TRICHLOROFLUOROMETHANE	UG/L							10.0000		U						
VINYL ACETATE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L	10.0000		U				10.0000		U				10.0000		U
XYLENES, TOTAL	UG/L	10.0000		U				5.0000		UJ				10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	123018	063928	063951	123019	123021
TASK:	10.03.08	10.03.01	10.03.01	10.03.08	10.03.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1771	1772	1772	1772	1772
DEPTH:	-	-	-	-	-
DATE COLLECTED:	22-JUN-93	06-NOV-91	15-NOV-91	22-JUN-93	22-JUN-93
NORTH COORDINATE:	481638.22	481771.63	481771.63	481771.63	481771.63
EAST COORDINATE:	1378298.05	1378500.36	1378500.36	1378500.36	1378500.36
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	F-UNF	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
BROMIDE	MG/L				200.0000		U									
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L				2.2000		U									
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L				2.0000		U									
1,2,3,4,7,8,9-HEPTACHLORODIBEN	NG/L				2.9000		U									
1,2,3,4,7,8-HEXACHLORODIBENZO-	NG/L				1.4000		U									
1,2,3,4,7,8-HEXACHLORODIBENZOF	NG/L				1.6000		U									
1,2,3,6,7,8-HEXACHLORODIBENZO-	NG/L				1.1000		U									
1,2,3,6,7,8-HEXACHLORODIBENZOF	NG/L				1.4000		U									
1,2,3,7,8,9-HEXACHLORODIBENZO-	NG/L				1.2000		U									
1,2,3,7,8,9-HEXACHLORODIBENZOF	NG/L				1.9000		U									
1,2,3,7,8-PENTACHLORODIBENZO-P	NG/L				5.4000		U									
1,2,3,7,8-PENTACHLORODIBENZOFU	NG/L				0.8900		U									
1,4-DIOXANE	UG/L				300.0000		J									
2,3,4,6,7,8-HEXACHLORODIBENZOF	NG/L				1.7000		U									
2,3,4,7,8-PENTACHLORODIBENZOFU	NG/L				0.9700		U									
2,3,7,8-TETRACHLORODIBENZO-P-D	NG/L				2.3000		U									
2,3,7,8-TETRACHLORODIBENZOFURA	NG/L				1.1000		U									
HEPTACHLORODIBENZO-P-DIOXINS	NG/L				1.2000		-									
HEPTACHLORODIBENZOFURANS	NG/L				2.4000		U									
HEXACHLORODIBENZO-P-DIOXINS	NG/L				1.2000		U									
HEXACHLORODIBENZOFURANS	NG/L				1.7000		U									
OCTACHLORODIBENZO-P-DIOXIN	NG/L				18.5000		J									
OCTACHLORODIBENZOFURAN	NG/L				1.6000		J									
PENTACHLORODIBENZO-P-DIOXINS	NG/L				5.4000		U									
PENTACHLORODIBENZOFURANS	NG/L				0.9300		U									
TETRACHLORODIBENZO-P-DIOXINS	NG/L				0.4300		U									
TETRACHLORODIBENZOFURANS	NG/L				0.5700		U									

SAMPLE NUMBER:	123018	063928	063951	123019	123021
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-FIL	-	-	-

		123018 RESULT	SIGMA	VAL QUAL(1)	063928 RESULT	SIGMA	VAL QUAL(1)	063951 RESULT	SIGMA	VAL QUAL(1)	123019 RESULT	SIGMA	VAL QUAL(1)	123021 RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				180.0000		-									
AMMONIA	MG/L				1987.0000		-									
CHLORIDE	MG/L				21000.0000		-									
FLUORIDE	MG/L				80.0000		U									
NITRATE	MG/L				6574.0000		-									
PH	STD				7.7600		-									
PHOSPHATE	MG/L				200.0000		U									
SULFATE	MG/L				4800.0000		-									
SULFIDE	MG/L				0.5000		U									
TOTAL ORGANIC CARBON	MG/L				9.8600		-									
HERBICIDES																
2,4,5-T	UG/L				4.2000		U									
2,4,5-TP (SILVEX)	UG/L				3.8000		U									
2,4-D	UG/L				21.0000		U									
INORGANICS																
ALUMINUM	MG/L				2.0300		J	3.0600		J	43.5000		J			
ANTIMONY	MG/L				0.6480		-	0.7140		-	0.0050		UJ			
ARSENIC	MG/L				0.1450		-	0.1660		-	0.3080		-			
BARIUM	MG/L				0.4110		J	0.3080		J	0.6900		-			
BERYLLIUM	MG/L				0.0066		-	0.0062		-	0.0048		-			
BORON	MG/L				5.1500		J	5.2000		J						
CADMIUM	MG/L				0.2980		J	0.4750		J	0.0050		U			
CALCIUM	MG/L				2220.0000		-	2780.0000		-	2850.0000		-			
CHROMIUM	MG/L				0.0100		U	0.0100		UJ	0.1110		-			
COBALT	MG/L				0.1370		J	0.1600		J	0.1290		-			
COPPER	MG/L				0.0983		J	0.1480		J	1.0400		-			
CYANIDE	MG/L				1.2700		J				0.4400		-			
IRON	MG/L				1.0300		J	1.9200		J	29.2000		-			
LEAD	MG/L				0.0020		UJ	0.0506		-	1.8200		-			
MAGNESIUM	MG/L				4020.0000		-	4950.0000		-	4730.0000		-			
MANGANESE	MG/L				101.0000		-	120.0000		-	145.0000		-			
MERCURY	MG/L				0.0003		J	0.0002		UJ	0.0009		J			
MOLYBDENUM	MG/L				0.9950		J	1.0900		J	0.6370		-			
NICKEL	MG/L				0.0200		UJ	0.0200		UJ	0.3720		-			
POTASSIUM	MG/L				788.0000		-	830.0000		-	859.0000		-			
SELENIUM	MG/L				0.0100		UJ	0.0131		J	0.0020		UJ			
SILICON	MG/L				6.2300		J	6.0500		J	41.7000		-			
SILVER	MG/L				0.1650		J	0.1620		J	0.0333		-			
SODIUM	MG/L				4230.0000		-	4620.0000		-	4830.0000		-			
THALLIUM	MG/L				0.0766		J	0.1240		J	0.1280		J			
TIN	MG/L				0.2000		U	0.2000		U						

SAMPLE NUMBER:		123018			063928			063951			123019			123021		
LAB:					IT			IT								
SUFFIX/FILTERFLAG:		-			NONE-UNF			F-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
VANADIUM	MG/L				0.2380		J	0.2580		J	0.0932		-			
ZINC	MG/L				0.0554		-	0.0660		-	0.5710		-			
MISC																
1,2,3-TRICHLOROPROPANE	UG/L				10.0000		U									
1,2,4,5-TETRACHLOROBENZENE	UG/L				10.0000		R									
1,2-DIBROMO-3-CHLOROPROPANE	UG/L				10.0000		UJ									
1,2-DIBROMOETHANE	UG/L				10.0000		U									
1,3,5-TRINITROBENZENE	UG/L				10.0000		R									
1,3-DINITROBENZENE	UG/L				10.0000		R									
1,4-NAPHTHOQUINONE	UG/L				10.0000		R									
1-NAPHTHYLAMINE	UG/L				120.0000		R									
2,3,4,6-TETRACHLOROPHENOL	UG/L				10.0000		R									
2,6-DICHLOROPHENOL	UG/L				10.0000		R									
2-ACETYLAMINOFLUORENE	UG/L				10.0000		R									
2-CHLORO-1,3-BUTADIENE	UG/L				10.0000		UJ									
2-NAPHTHYLAMINE	UG/L				170.0000		R									
2-PICOLINE	UG/L				70.0000		R									
3,3'-DIMETHYLBENZIDINE	UG/L				80.0000		R									
3-CHLOROPROPENE	UG/L				10.0000		UJ									
3-METHYLCHOLANTHRENE	UG/L				30.0000		R									
3-METHYLPHENOL	UG/L				10.0000		R									
4-AMINOBIPHENYL	UG/L				50.0000		R									
4-CHLOROANILINE	UG/L				10.0000		R									
4-NITROQUINOLINE-1-OXIDE	UG/L				10.0000		R									
5-NITRO-O-TOLUIDINE	UG/L				20.0000		R									
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L				20.0000		R									
A,A-DIMETHYLPHENETHYLAMINE	UG/L				10.0000		R									
ACETONITRILE	UG/L				20.0000		UJ									
ACETOPHENONE	UG/L				10.0000		R									
ACROLEIN	UG/L				20.0000		UJ									
ACROLEIN	UG/L				20.0000		UJ									
ACRYLONITRILE	UG/L				8.0000		J									
ANILINE	UG/L				50.0000		R									
ARAMITE	UG/L				10.0000		R									
DIALLATE	UG/L				10.0000		R									
DIBROMOMETHANE	UG/L				10.0000		U									
DICHLORODIFLUOROMETHANE	UG/L				200.0000		R									
DINOSEB	UG/L				20.0000		R									
DIPHENYLAMINE	UG/L				10.0000		R									
ETHYL CYANIDE	UG/L				4.0000		J									
ETHYL METHACRYLATE	UG/L				10.0000		U									
ETHYL METHANESULFONATE	UG/L				10.0000		R									
HEXACHLOROPHENE	UG/L				50.0000		R									

SAMPLE NUMBER:	123018	063928	063951	123019	123021
LAB:		IT			
SUFFIX/FILTERFLAG:	-	R-FIL	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
HEXACHLOROPROPENE	UG/L				20.0000		R									
IODOMETHANE	UG/L				10.0000		U									
ISODRIN	UG/L				0.5000		U									
ISOSAFROLE	UG/L				10.0000		R									
KEPONE	UG/L				1.0000		U									
METHACRYLONITRILE	UG/L				10.0000		U									
METHAPYRILENE	UG/L				40.0000		R									
METHYL METHACRYLATE	UG/L				10.0000		U									
METHYL METHANESULFONATE	UG/L				10.0000		R									
N-NITROSODI-N-BUTYLAMINE	UG/L				20.0000		R									
N-NITROSODIETHYLAMINE	UG/L				10.0000		R									
N-NITROSOMETHYLETHYLAMINE	UG/L				10.0000		R									
N-NITROSOMORPHOLINE	UG/L				10.0000		R									
N-NITROSOPIPERIDINE	UG/L				10.0000		R									
N-NITROSOPYRROLIDINE	UG/L				10.0000		R									
O-TOLUIDINE	UG/L				10.0000		R									
P-DIMETHYLAMINOAZOBENZENE	UG/L				30.0000		R									
P-PHENYLENEDIAMINE	UG/L				50.0000		R									
PENTACHLOROBENZENE	UG/L				20.0000		R									
PENTACHLOROETHANE	UG/L				20.0000		R									
PENTACHLORONITROBENZENE	UG/L				20.0000		R									
PHENACETIN	UG/L				10.0000		R									
PRONAMIDE	UG/L				30.0000		R									
SAFROLE	UG/L				10.0000		R									
TRANS-1,4-DICHLORO-2-BUTENE	UG/L				10.0000		UJ									
PESTICIDES																
4,4'-DDD	UG/L				1.0000		U									
4,4'-DDE	UG/L				1.0000		U									
4,4'-DDT	UG/L				1.0000		U									
ALDRIN	UG/L				0.5000		U									
ALPHA-BHC	UG/L				0.5000		U									
ALPHA-CHLORDANE	UG/L				5.0000		U									
AROCLOR-1016	UG/L				5.0000		U									
AROCLOR-1221	UG/L				5.0000		U									
AROCLOR-1232	UG/L				5.0000		U									
AROCLOR-1242	UG/L				5.0000		U									
AROCLOR-1248	UG/L				5.0000		U									
AROCLOR-1254	UG/L				10.0000		U									
AROCLOR-1260	UG/L				10.0000		U									
BETA-BHC	UG/L				0.5000		U									
CHLOROBENZILATE	UG/L				1.0000		U									
DELTA-BHC	UG/L				0.5000		U									
DIELDRIN	UG/L				1.0000		U									

SAMPLE NUMBER:		123018			063928			063951			123019			123021		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			DL-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDOSULFAN II	UG/L				1.0000		U									
ENDOSULFAN SULFATE	UG/L				1.0000		U									
ENDOSULFAN-I	UG/L				0.5000		U									
ENDRIN	UG/L				1.0000		U									
ENDRIN KETONE	UG/L				1.0000		U									
GAMMA-BHC (LINDANE)	UG/L				0.5000		U									
GAMMA-CHLORDANE	UG/L				5.0000		U									
HEPTACHLOR	UG/L				0.5000		U									
HEPTACHLOR EPOXIDE	UG/L				0.5000		U									
METHOXYCHLOR	UG/L				5.0000		U									
SULFOTEP	UG/L				10.0000		R									
TOXAPHENE	UG/L				10.0000		U									
RADIONUCLIDES																
URANIUM-238	PCI/L	37.60	008.64	J				2470.0000	300	-				2890.0000	600	J
URANIUM, TOTAL	UG/L	948.00	0032	-				4960.0000	720	-				6500.0000	900	-
URANIUM-234	PCI/L	30.30	007.09	J				1590.0000	200	-				1420.0000	300	J
THORIUM-230	PCI/L	904.00	0872	J										854.0000	241	J
RADIUM-226	PCI/L	62.90	0010.5	J												
URANIUM-235/236	PCI/L	1.0200	.68	-				78.5000	17.5	-				148.0000	42	J
THORIUM-232	PCI/L	68.50	0026.2	J										107.0000	40	J
THORIUM, TOTAL	UG/L	625.00	0839	J										972.0000	374	J
RADIUM-228	PCI/L	126.00	89	J												
THORIUM-228	PCI/L	48.90	0020.2	J										495.0000	145	J
NEPTUNIUM-237	PCI/L	3.9100	1.25	J										6.7800	2.2	J
PLUTONIUM-239/240	PCI/L	1.1200	.54	U										2.6400	1.2	J
PLUTONIUM-238	PCI/L	1.1000	.41	UJ										22.4000	5.6	-
STRONTIUM-90	PCI/L	20.70	002.4	-				106.0000	12	-						
TECHNETIUM-99	PCI/L	3290.00	800	-				119.0000	23	-				188.0000	29	-
RUTHENIUM-106	PCI/L	150.0000		UJ				150.0000		U				160.0000		UJ
CESIUM-137	PCI/L	14.0000		UJ				20.0000		U				20.0000		UJ
GROSS ALPHA	PCI/L							3626.0000	993	NV						
GROSS BETA	PCI/L							5289.0000	675	NV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		R				10.0000		UJ			
1,2-DICHLOROBENZENE	UG/L				10.0000		R				10.0000		UJ			
1,3-DICHLOROBENZENE	UG/L				10.0000		R				10.0000		UJ			
1,4-DICHLOROBENZENE	UG/L				10.0000		R				10.0000		UJ			
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		R				25.0000		UR			
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		R				10.0000		UR			
2,4-DICHLOROPHENOL	UG/L				10.0000		R				10.0000		UR			
2,4-DIMETHYLPHENOL	UG/L				10.0000		R				10.0000		UR			

SAMPLE NUMBER:	123018	063928	063951	123019	123021
LAB:		IT		IT	
SUFFIX/FILTERFLAG:	-	R-FIL	-	NONE-FIL	-

		123018 RESULT	SIGMA	VAL QUAL(1)	063928 RESULT	SIGMA	VAL QUAL(1)	063951 RESULT	SIGMA	VAL QUAL(1)	123019 RESULT	SIGMA	VAL QUAL(1)	123021 RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2,4-DINITROPHENOL	UG/L				3.0000		R				17.0000		J			
2,4-DINITROTOLUENE	UG/L				10.0000		R				10.0000		UJ			
2,6-DINITROTOLUENE	UG/L				10.0000		R				3.0000		J			
2-BENZYL-4-CHLOROPHENOL	UG/L										10.0000		UNV			
2-CHLORONAPHTHALENE	UG/L				10.0000		R				10.0000		UJ			
2-CHLOROPHENOL	UG/L				10.0000		R				10.0000		UR			
2-METHYLNAPHTHALENE	UG/L				10.0000		R				10.0000		UJ			
2-METHYLPHENOL	UG/L				10.0000		R				10.0000		UR			
2-NITROANILINE	UG/L				50.0000		R				25.0000		UJ			
2-NITROPHENOL	UG/L				10.0000		R				3.0000		J			
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		UJ				10.0000		UJ			
3-NITROANILINE	UG/L				50.0000		R				25.0000		UJ			
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		R				12.0000		J			
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		R				10.0000		UJ			
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		R				10.0000		UR			
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		R				10.0000		UJ			
4-METHYLPHENOL	UG/L				10.0000		R				10.0000		UR			
4-NITROANILINE	UG/L				50.0000		R				25.0000		UJ			
4-NITROPHENOL	UG/L				50.0000		R				25.0000		UR			
ACENAPHTHENE	UG/L				10.0000		R				10.0000		UJ			
ACENAPHTHYLENE	UG/L				10.0000		R				10.0000		UJ			
ANTHRACENE	UG/L				10.0000		UJ				10.0000		UJ			
BENZO(A)ANTHRACENE	UG/L				10.0000		UJ				10.0000		UJ			
BENZO(A)PYRENE	UG/L				10.0000		UJ				10.0000		UJ			
BENZO(B)FLUORANTHENE	UG/L				10.0000		UJ				10.0000		UJ			
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ				10.0000		UJ			
BENZO(K)FLUORANTHENE	UG/L				10.0000		UJ				10.0000		UJ			
BENZOIC ACID	UG/L				50.0000		R				150.0000		J			
BENZYL ALCOHOL	UG/L				10.0000		R				10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		R				10.0000		UJ			
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		R				10.0000		UJ			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		R				10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		UJ				10.0000		UJ			
BUTYL BENZYL PHTHALATE	UG/L				10.0000		UJ				10.0000		UJ			
CARBAZOLE	UG/L										10.0000		UJ			
CHRYSENE	UG/L				10.0000		UJ				10.0000		UJ			
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UJ				10.0000		UJ			
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UJ				10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ				10.0000		UJ			
DIBENZOFURAN	UG/L				10.0000		R				10.0000		UJ			
DIETHYL PHTHALATE	UG/L				10.0000		R				2.0000		J			
DIMETHYL PHTHALATE	UG/L				10.0000		R				10.0000		UJ			
FLUORANTHENE	UG/L				10.0000		UJ				10.0000		UJ			
FLUORENE	UG/L				10.0000		R				10.0000		UJ			
HEXACHLOROBENZENE	UG/L				10.0000		R				10.0000		UJ			

SAMPLE NUMBER:	123018	063928	063951	123019	123021
LAB:		IT		IT	
SUFFIX/FILTERFLAG:	-	R-FIL	-	NONE-FIL	-

		123018 RESULT	123018 SIGMA	123018 VAL QUAL(1)	063928 RESULT	063928 SIGMA	063928 VAL QUAL(1)	063951 RESULT	063951 SIGMA	063951 VAL QUAL(1)	123019 RESULT	123019 SIGMA	123019 VAL QUAL(1)	123021 RESULT	123021 SIGMA	123021 VAL QUAL(1)
SEMIVOLATILES																
HEXACHLOROBUTADIENE	UG/L				10.0000		R				10.0000		UJ			
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		R				10.0000		UJ			
HEXACHLOROETHANE	UG/L				10.0000		R				10.0000		UJ			
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		UJ				10.0000		UJ			
ISOPHORONE	UG/L				10.0000		R				10.0000		UJ			
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		R				10.0000		UJ			
N-NITROSODIMETHYLAMINE	UG/L				10.0000		R									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		R				10.0000		UJ			
NAPHTHALENE	UG/L				10.0000		R				1.0000		J			
NITROBENZENE	UG/L				10.0000		R				10.0000		UJ			
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L				10.0000		R									
P-CHLOROANILINE	UG/L										10.0000		UJ			
PENTACHLOROPHENOL	UG/L				5.0000		R				19.0000		J			
PHENANTHRENE	UG/L				10.0000		UJ				10.0000		UJ			
PHENOL	MG/L				10.0000		R				10.0000		UR			
PYRENE	UG/L				10.0000		UJ				10.0000		UJ			
PYRIDINE	UG/L				10.0000		R									
VOLATILES																
1,1,1,2-TETRACHLOROETHANE	UG/L				10.0000		U									
1,1,1-TRICHLOROETHANE	UG/L				1.0000		J				1.0000		J			
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U				10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U				10.0000		U			
1,1-DICHLOROETHANE	UG/L				5.0000		U				10.0000		U			
1,1-DICHLOROETHENE	UG/L				5.0000		U				10.0000		U			
1,2-DICHLOROETHANE	UG/L				5.0000		U				10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U				10.0000		U			
1,2-DICHLOROPROPANE	UG/L				5.0000		U				10.0000		U			
2-BUTANONE	UG/L				17.0000		-				11.0000		-			
2-HEXANONE	UG/L				19.0000		-				7.0000		J			
4-METHYL-2-PENTANONE	UG/L				10.0000		-				12.0000		-			
ACETONE	UG/L				48.0000		-				22.0000		-			
BENZENE	UG/L				5.0000		UJ				10.0000		U			
BROMODICHLOROMETHANE	UG/L				5.0000		U				10.0000		U			
BROMOFORM	UG/L				5.0000		U				10.0000		U			
BROMOMETHANE	UG/L				10.0000		U				10.0000		U			
CARBON DISULFIDE	UG/L				5.0000		U				10.0000		U			
CARBON TETRACHLORIDE	UG/L				5.0000		U				10.0000		U			
CHLOROBENZENE	UG/L				5.0000		UJ				10.0000		U			
CHLOROETHANE	UG/L				10.0000		U				10.0000		U			
CHLOROFORM	UG/L				30.0000		-				30.0000		-			
CHLOROMETHANE	UG/L				10.0000		UJ				10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				10.0000		U			
DIBROMOCHLOROMETHANE	UG/L				5.0000		U				10.0000		U			

SAMPLE NUMBER:	123018	063928	063951	123019	123021
LAB:		IT		IT	
SUFFIX/FILTERFLAG:	-	NONE-FIL	-	NONE-FIL	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
ETHYLBENZENE	UG/L				5.0000		UJ				10.0000		U			
ISOBUTYL ALCOHOL	UG/L				22.0000		J									
METHYLENE CHLORIDE	UG/L				5.0000		U				10.0000		UJ			
STYRENE	UG/L				5.0000		UJ				10.0000		U			
TETRACHLOROETHENE	UG/L				5.0000		U				10.0000		U			
TOLUENE	UG/L				5.0000		UJ				10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U				10.0000		U			
TRICHLOROETHENE	UG/L				5.0000		U				10.0000		U			
TRICHLOROFLUOROMETHANE	UG/L				10.0000		U									
VINYL ACETATE	UG/L				10.0000		U									
VINYL CHLORIDE	UG/L				10.0000		U				10.0000		U			
XYLENES, TOTAL	UG/L				5.0000		UJ				10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	063932	123001	123003	063937	123004
TASK:	10.03.01	10.03.08	10.03.08	10.03.01	10.03.08
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1773	1773	1773	1774	1774
DEPTH:	-	-	-	-	-
DATE COLLECTED:	12-NOV-91	22-JUN-93	22-JUN-93	13-NOV-91	21-JUN-93
NORTH COORDINATE:	481696.36	481696.36	481696.36	481765.34	481765.34
EAST COORDINATE:	1378864.51	1378864.51	1378864.51	1378912.61	1378912.61
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-FIL	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
BROMIDE	MG/L	1.0000		U							1.0000		U			
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L	0.9400		U							0.8200		U			
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L	2.0000		U							0.8400		U			
1,2,3,4,7,8,9-HEPTACHLORODIBEN	NG/L	2.8000		U							1.2000		U			
1,2,3,4,7,8-HEXACHLORODIBENZO-	NG/L	0.8600		U							0.8100		U			
1,2,3,4,7,8-HEXACHLORODIBENZOF	NG/L	1.2000		U							1.2000		U			
1,2,3,6,7,8-HEXACHLORODIBENZO-	NG/L	0.6800		U							0.6500		U			
1,2,3,6,7,8-HEXACHLORODIBENZOF	NG/L	1.0000		U							1.0000		U			
1,2,3,7,8,9-HEXACHLORODIBENZO-	NG/L	0.7200		U							0.6800		U			
1,2,3,7,8,9-HEXACHLORODIBENZOF	NG/L	1.3000		U							1.3000		U			
1,2,3,7,8-PENTACHLORODIBENZO-	PNG/L	1.5000		UJ							1.0000		UJ			
1,2,3,7,8-PENTACHLORODIBENZOFU	NG/L	1.0000		U							1.0000		U			
1,4-DIOXANE	UG/L	190.0000		J							630.0000		R			
2,3,4,6,7,8-HEXACHLORODIBENZOF	NG/L	1.2000		U							1.2000		U			
2,3,4,7,8-PENTACHLORODIBENZOFU	NG/L	1.1000		U							1.1000		U			
2,3,7,8-TETRACHLORODIBENZO-P-	DNG/L	0.2000		U							0.0430		U			
2,3,7,8-TETRACHLORODIBENZOFURA	NG/L	2.1000		U							3.6000		U			
HEPTACHLORODIBENZO-P-DIOXINS	NG/L	0.9400		U							0.8200		U			
HEPTACHLORODIBENZOFURANS	NG/L	2.4000		U							0.9800		U			
HEXACHLORODIBENZO-P-DIOXINS	NG/L	0.7500		U							0.7100		U			
HEXACHLORODIBENZOFURANS	NG/L	1.2000		U							1.2000		U			
OCTACHLORODIBENZO-P-DIOXIN	NG/L	1.1000		U							0.9000		U			
OCTACHLORODIBENZOFURAN	NG/L	0.7400		U							0.9000		U			
PENTACHLORODIBENZO-P-DIOXINS	NG/L	1.5000		UJ							1.0000		UJ			
PENTACHLORODIBENZOFURANS	NG/L	1.1000		U							1.0000		U			
TETRACHLORODIBENZO-P-DIOXINS	NG/L	0.6800		U							1.4000		U			
TETRACHLORODIBENZOFURANS	NG/L	0.6900		U							1.7000		UJ			

001881

SAMPLE NUMBER:		063932		123001		123003			063937		123004	
LAB:		IT							IT			
SUFFIX/FILTERFLAG:		NONE-FIL		-		-			NONE-FIL		-	
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
GENERAL CHEMISTRY												
ALKALINITY AS CACO3	MG/L	835.0000	-									
AMMONIA	MG/L	51.5000	-						9.2800	-		
CHLORIDE	MG/L	5048.0000	-						5251.0000	-		
FLUORIDE	MG/L	0.4000	U						0.4000	U		
NITRATE	MG/L	0.4000	U						0.4000	U		
PH	STD	7.1800	-									
PHOSPHATE	MG/L	0.3810	-									
PHOSPHORUS	MG/L								1.0000	U		
SULFATE	MG/L	125.0000	-						1.8500	-		
SULFIDE	MG/L	0.5000	U						0.5000	U		
TOTAL ORGANIC CARBON	MG/L	47.7000	-						80.6000	-		
HERBICIDES												
2,4,5-T	UG/L	16.0000	U						30.0000	U		
2,4,5-TP (SILVEX)	UG/L	15.0000	U						28.0000	U		
2,4-D	UG/L	82.0000	U						10.0000	U		
INORGANICS												
ALUMINUM	MG/L	12.4000	J	6.3500	-				4.7600	J	8.6300	-
ANTIMONY	MG/L	0.7750	J	0.0050	UJ				0.9560	J	0.0050	UJ
ARSENIC	MG/L	0.0023	J	0.0040	UJ				0.0020	U	0.0032	UJ
BARIUM	MG/L	2.7900	J	2.6900	-				0.2730	J	0.2830	-
BERYLLIUM	MG/L	0.0809	-	0.0112	-				0.0179	-	0.0020	U
BORON	MG/L	2.9300	J						1.0300	J		
CADMIUM	MG/L	0.1020	J	0.0050	UJ				0.1180	J	0.0050	UJ
CALCIUM	MG/L	386.0000	-	473.0000	-				703.0000	-	578.0000	-
CHROMIUM	MG/L	2.2200	-	0.0100	UJ				0.8000	J	0.0100	UJ
COBALT	MG/L	0.3380	J	0.0100	U				0.2360	J	0.1460	-
COPPER	MG/L	0.6430	J	0.0100	U				0.1650	J	0.0100	U
CYANIDE	MG/L	0.0202	J	0.0088	J				0.0265	J	0.0148	J
IRON	MG/L	1.0500	J	1.9800	-				0.4430	J	0.4910	-
LEAD	MG/L	0.0020	-	0.0171	-				0.0020	U	0.0104	-
MAGNESIUM	MG/L	959.0000	-	1150.0000	-				1070.0000	-	1050.0000	-
MANGANESE	MG/L	104.0000	-	61.7000	-				558.0000	-	559.0000	-
MERCURY	MG/L	0.0002	-	0.0002	U				0.0002	UJ	0.0002	U
MOLYBDENUM	MG/L	0.6290	J	0.2080	-				0.3990	J	0.1100	-
NICKEL	MG/L	0.7350	J	0.1960	-				2.1300	J	0.9150	-
POTASSIUM	MG/L	478.0000	-	713.0000	-				22.6000	-	21.1000	-
SELENIUM	MG/L	0.0020	UJ	0.0020	UJ				0.0025	J	0.0020	UJ
SILICON	MG/L	10.5000	-	14.2000	-				20.2000	J	17.5000	-
SILVER	MG/L	1.1600	J	0.1550	-				0.3380	J	0.0623	-
SODIUM	MG/L	833.0000	-	1150.0000	-				236.0000	-	239.0000	-
THALLIUM	MG/L	0.0100	UJ	0.0100	UJ				0.0100	UJ	0.0100	UJ

SAMPLE NUMBER:		063932		123001		123003		063937		123004	
LAB:		IT		IT				IT		IT	
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-FIL		-		NONE-UNF		NONE-FIL	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
TIN	MG/L	0.2000	U					0.2000	U		
VANADIUM	MG/L	0.9290	J	0.0100	UR			0.2980	J	0.0100	UR
ZINC	MG/L	0.0817	J	0.0610	-			0.4120	-	0.4290	-
MISC											
1,2,3-TRICHLOROPROPANE	UG/L	10.0000	UJ					10.0000	U		
1,2,4,5-TETRACHLOROBENZENE	UG/L	10.0000	UJ								
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	10.0000	UJ					10.0000	U		
1,2-DIBROMOETHANE	UG/L	10.0000	UJ					10.0000	U		
1,3,5-TRINITROBENZENE	UG/L	10.0000	R								
1,3-DINITROBENZENE	UG/L	10.0000	UJ								
1,4-NAPHTHOQUINONE	UG/L	10.0000	R								
1-NAPHTHYLAMINE	UG/L	120.0000	R								
2,3,4,6-TETRACHLOROPHENOL	UG/L	10.0000	UJ								
2,6-DICHLOROPHENOL	UG/L	10.0000	UJ								
2-ACETYLAMINOFLUORENE	UG/L	10.0000	U								
2-CHLORO-1,3-BUTADIENE	UG/L	10.0000	UJ					10.0000	U		
2-NAPHTHYLAMINE	UG/L	170.0000	R								
2-PICOLINE	UG/L	70.0000	UJ								
3,3'-DIMETHYLBENZIDINE	UG/L	80.0000	U								
3-CHLOROPROPENE	UG/L	10.0000	UJ					10.0000	UJ		
3-METHYLCHOLANTHRENE	UG/L	30.0000	U								
3-METHYLPHENOL	UG/L	10.0000	R								
4-AMINOBIPHENYL	UG/L	50.0000	UJ								
4-CHLOROANILINE	UG/L	10.0000	U								
4-NITROQUINOLINE-1-OXIDE	UG/L	10.0000	R								
5-NITRO-O-TOLUIDINE	UG/L	20.0000	R								
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	20.0000	UJ								
A,A-DIMETHYLPHENETHYLAMINE	UG/L	10.0000	UJ								
ACETONITRILE	UG/L	69.0000	J					20.0000	R		
ACETOPHENONE	UG/L	10.0000	R								
ACROLEIN	UG/L	20.0000	UJ					20.0000	UJ		
ACROLEIN	UG/L	20.0000	UJ					20.0000	UJ		
ACRYLONITRILE	UG/L	20.0000	R					20.0000	R		
ANILINE	UG/L	50.0000	U								
ARAMITE	UG/L	10.0000	UJ								
DIALLATE	UG/L	10.0000	UJ								
DIBROMOMETHANE	UG/L	10.0000	UJ					10.0000	U		
DICHLORODIFLUOROMETHANE	UG/L	200.0000	R					200.0000	R		
DINOSEB	UG/L	5.7000	U					11.0000	U		
DIPHENYLAMINE	UG/L	10.0000	R								
ETHYL CYANIDE	UG/L	10.0000	UJ					1.0000	J		
ETHYL METHACRYLATE	UG/L	10.0000	UJ					10.0000	U		
ETHYL METHANESULFONATE	UG/L	10.0000	UJ								

001883

SAMPLE NUMBER:		063932		123001			123003			063937			123004		
LAB:		IT													
SUFFIX/FILTERFLAG:		NONE-FIL		-			-			-			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
HEXACHLOROPHENE	UG/L	50.0000	UJ												
HEXACHLOROPROPENE	UG/L	20.0000	R												
IODOMETHANE	UG/L	10.0000	UJ							10.0000		U			
ISODRIN	UG/L	0.5000	U							5.0000		U			
ISOSAFROLE	UG/L	10.0000	UJ												
KEPONE	UG/L	1.0000	U							10.0000		U			
METHACRYLONITRILE	UG/L	10.0000	UJ							10.0000		U			
METHAPYRILENE	UG/L	40.0000	UJ												
METHYL METHACRYLATE	UG/L	10.0000	UJ							10.0000		U			
METHYL METHANESULFONATE	UG/L	10.0000	R												
N-NITROSODI-N-BUTYLAMINE	UG/L	20.0000	UJ												
N-NITROSODIETHYLAMINE	UG/L	10.0000	UJ												
N-NITROSOMETHYLETHYLAMINE	UG/L	10.0000	UJ												
N-NITROSOMORPHOLINE	UG/L	10.0000	U												
N-NITROSOPIPERIDINE	UG/L	10.0000	UJ												
N-NITROSOPYRROLIDINE	UG/L	10.0000	UJ												
O-TOLUIDINE	UG/L	10.0000	UJ												
P-DIMETHYLAMINOAZOBENZENE	UG/L	30.0000	UJ												
P-PHENYLENEDIAMINE	UG/L	50.0000	UJ												
PENTACHLOROBENZENE	UG/L	20.0000	UJ												
PENTACHLOROETHANE	UG/L	20.0000	UJ												
PENTACHLORONITROBENZENE	UG/L	20.0000	U												
PHENACETIN	UG/L	10.0000	UJ												
PRONAMIDE	UG/L	30.0000	UJ												
SAFROLE	UG/L	10.0000	UJ												
TETRAETHYLPYROPHOSPHATE	UG/L	15.0000	U							15.0000		U			
TRANS-1,4-DICHLORO-2-BUTENE	UG/L	10.0000	UJ							10.0000		UJ			
ORGANOPHOSPHORUS															
DIMETHOATE	UG/L									15.0000		U			
DISULFOTON	UG/L	15.0000	U							15.0000		U			
FAMPHUR	UG/L									15.0000		U			
METHYL PARATHION	UG/L	15.0000	U							15.0000		U			
PARATHION	UG/L									15.0000		U			
PHORATE	UG/L	15.0000	U							15.0000		U			
THIONAZIN	UG/L									15.0000		U			
PESTICIDES															
4,4'-DDD	UG/L	1.0000	U							10.0000		U			
4,4'-DDE	UG/L	1.0000	U							10.0000		U			
4,4'-DDT	UG/L	1.0000	U							10.0000		U			
ALDRIN	UG/L	0.5000	U							5.0000		U			
ALPHA-BHC	UG/L	0.1000	R							5.0000		U			

001884

5704

SAMPLE NUMBER:		063932		123001		123003			063937			123004		
LAB:		IT							IT					
SUFFIX/FILTERFLAG:		DL-FIL		-		-			DL-FIL			-		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES														
ALPHA-CHLORDANE	UG/L	5.0000	U						50.0000		U			
AROCLOR-1016	UG/L	5.0000	U						50.0000		U			
AROCLOR-1221	UG/L	5.0000	U						50.0000		U			
AROCLOR-1232	UG/L	5.0000	U						50.0000		U			
AROCLOR-1242	UG/L	5.0000	U						50.0000		U			
AROCLOR-1248	UG/L	5.0000	U						50.0000		U			
AROCLOR-1254	UG/L	10.0000	U						100.0000		U			
AROCLOR-1260	UG/L	10.0000	U						100.0000		U			
BETA-BHC	UG/L	0.5000	U						5.0000		U			
CHLOROBENZILATE	UG/L	1.0000	U						10.0000		-			
DELTA-BHC	UG/L	0.5000	U						5.0000		U			
DIELDRIN	UG/L	1.0000	U						10.0000		U			
ENDOSULFAN II	UG/L	1.0000	U						10.0000		U			
ENDOSULFAN SULFATE	UG/L	1.0000	U						10.0000		U			
ENDOSULFAN-I	UG/L	0.5000	U						5.0000		U			
ENDRIN	UG/L	1.0000	U						10.0000		U			
ENDRIN KETONE	UG/L	1.0000	U						10.0000		U			
GAMMA-BHC (LINDANE)	UG/L	0.5000	U						5.0000		U			
GAMMA-CHLORDANE	UG/L	5.0000	U						50.0000		U			
HEPTACHLOR	UG/L	0.5000	U						5.0000		U			
HEPTACHLOR EPOXIDE	UG/L	0.5000	U						5.0000		U			
METHOXYCHLOR	UG/L	5.0000	U						50.0000		U			
SULFOTEP	UG/L	10.0000	UJ						15.0000		U			
TOXAPHENE	UG/L	10.0000	U						100.0000		U			
RADIONUCLIDES														
URANIUM-238	PCI/L	426000.00000	-			66100.0000	15300	J	26700.0000	3300	J			
URANIUM, TOTAL	UG/L	500000.00000	-			149000.000	20000	-	69500.0000	9100	-			
URANIUM-234	PCI/L	147000.00000	-			20900.0000	4900	J	24100.0000	3000	J			
THORIUM-230	PCI/L	5.1700 2.57	J			1250.0000	350	J	3.8000		U			
RADIUM-226	PCI/L	1.0000	UJ						9.2500	1.48	-			
URANIUM-235/236	PCI/L	27200.08800	-			1260.0000	350	J	1580.0000	290	J			
THORIUM-232	PCI/L	1.6000	UJ			59.3000	21.5	J	1.9000		U			
THORIUM, TOTAL	UG/L	15.0000	UJ			541.0000	196	J	17.0000		U			
RADIUM-228	PCI/L	8.5100 1.55	-						32.9000	5.1	R			
THORIUM-228	PCI/L	13.80004.5	J			89.1000	30	J	13.0000	4.2	-			
NEPTUNIUM-237	PCI/L					6.8100	1.89	J						
PLUTONIUM-239/240	PCI/L	1.0000	U			1.3500	.62	U	1.0000		U			
PLUTONIUM-238	PCI/L	1.0000	U			1.3200	.62	J	1.0000		U			
STRONTIUM-90	PCI/L	17.20002.5	J			24.8000	3.9	-	5.4300	2.72	-			
TECHNETIUM-99	PCI/L	352.000B1	J			259.0000	36	-	171.0000	35	J			
RUTHENIUM-106	PCI/L	311.0000	U			150.0000		UJ	150.0000		UJ			
CESIUM-137	PCI/L	34.0000	U			18.0000		UJ	20.0000		UJ			
GROSS ALPHA	PCI/L	133784.00037	NV						37403.0000	3944	NV			

SAMPLE NUMBER:		063932		123001		123003			063937			123004	
LAB:		IT							IT				
SUFFIX/FILTERFLAG:		NONE-FIL		-		-			NONE-FIL			-	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
GROSS BETA	PCI/L	181294.08074		NV						28342.0000	2890	NV			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	25.0000	UR							25.0000		UR
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000	UR							10.0000		UR
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000	UR							4.0000		J
2,4-DIMETHYLPHENOL	UG/L	86.0000		-	28.0000	J							12.0000		J
2,4-DINITROPHENOL	UG/L	50.0000		U	25.0000	UR							2.0000		J
2,4-DINITROTOLUENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
2,6-DINITROTOLUENE	UG/L	5.0000		J	10.0000	UJ							10.0000		UJ
2-BENZYL-4-CHLOROPHENOL	UG/L				10.0000	UNV							32.0000		NV
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000	UR							4.0000		J
2-METHYLNAPHTHALENE	UG/L	10.0000		UJ	10.0000	UJ							10.0000		UJ
2-METHYLPHENOL	UG/L	23.0000		-	16.0000	J							6.0000		J
2-NITROANILINE	UG/L	50.0000		U	25.0000	UJ							25.0000		UJ
2-NITROPHENOL	UG/L	10.0000		U	10.0000	UR							10.0000		UR
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U	10.0000	UJ							10.0000		UJ
3-NITROANILINE	UG/L	50.0000		UJ	25.0000	UJ							25.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U	25.0000	R							25.0000		R
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	6.0000	J							49.0000		J
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
4-METHYLPHENOL	UG/L	10.0000		U	19.0000	J							55.0000		J
4-NITROANILINE	UG/L	50.0000		U	25.0000	UJ							25.0000		UJ
4-NITROPHENOL	UG/L	50.0000		U	25.0000	UR							25.0000		UR
ACENAPHTHENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
ACENAPHTHYLENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
ANTHRACENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BENZO(A)ANTHRACENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BENZO(A)PYRENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BENZO(B)FLUORANTHENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BENZO(K)FLUORANTHENE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BENZOIC ACID	UG/L	50.0000		UJ	10.0000	R							80.0000		J
BENZYL ALCOHOL	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U	10.0000	UJ							10.0000		UJ

SAMPLE NUMBER:		063932		123001		123003			063937			123004	
LAB:		IT		IT								IT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		-			-			NONE-FIL	
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
SEMIVOLATILES													
BUTYL BENZYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
CARBAZOLE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
CHRYSENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
DI-N-BUTYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
DI-N-OCTYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
DIBENZOFURAN	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
DIETHYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ							14.0000	J
DIMETHYL PHTHALATE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
FLUORANTHENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
FLUORENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
HEXACHLOROBENZENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
HEXACHLOROBUTADIENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000	UJ	10.0000	UJ							10.0000	UJ
HEXACHLOROETHANE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
ISOPHORONE	UG/L	10.0000	UJ	10.0000	UJ							10.0000	UJ
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000	UJ	10.0000	UJ							10.0000	UJ
N-NITROSODIMETHYLAMINE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
N-NITROSODIPHENYLAMINE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
NAPHTHALENE	UG/L	10.0000	U	10.0000	UJ							5.0000	J
NITROBENZENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L	15.0000	R						15.0000		U		
P-CHLOROANILINE	UG/L			10.0000	UJ							10.0000	UJ
PENTACHLOROPHENOL	UG/L	50.0000	U	25.0000	UR							25.0000	UR
PHENANTHRENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
PHENOL	MG/L	10.0000	U	10.0000	R							67.0000	J
PYRENE	UG/L	10.0000	U	10.0000	UJ							10.0000	UJ
PYRIDINE	UG/L	10.0000	U										
TRIBUTYL PHOSPHATE	UG/L	10.0000	U										
VOLATILES													
1,1,1,2-TETRACHLOROETHANE	UG/L	10.0000	UJ						10.0000		U		
1,1,1-TRICHLOROETHANE	UG/L			7.0000	J				120.0000		-	46.0000	J
1,1,2,2-TETRACHLOROETHANE	UG/L	6.0000	J	10.0000	U				5.0000		U	10.0000	UJ
1,1,2-TRICHLOROETHANE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
1,1-DICHLOROETHANE	UG/L	160.0000	J	55.0000	-				87.0000		-	79.0000	J
1,1-DICHLOROETHENE	UG/L	9.0000	J	2.0000	J				10.0000		-	3.0000	J
1,2-DICHLOROETHANE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	13.0000	J
1,2-DICHLOROETHENE (TOTAL)	UG/L	180.0000	J	370.0000	UJ				5.0000		U	10.0000	U
1,2-DICHLOROPROPANE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
2-BUTANONE	UG/L	92.0000	J	87.0000	J				180.0000		-	100.0000	J
2-HEXANONE	UG/L	1.0000	J	4.0000	J				53.0000		-	39.0000	J
4-METHYL-2-PENTANONE	UG/L	16.0000	J	15.0000	-				34.0000		-	38.0000	J

C01887

SAMPLE NUMBER:		063932		123001		123003			063937			123004	
LAB:		IT		IT					IT			IT	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		-			NONE-FIL			NONE-FIL	
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
VOLATILES													
ACETONE	UG/L	78.0000	J	49.0000	-				540.0000		J	190.0000	J
BENZENE	UG/L	3.0000	J	6.0000	J				5.0000		U	2.0000	J
BROMODICHLOROMETHANE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
BROMOFORM	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
BROMOMETHANE	UG/L	10.0000	UJ	10.0000	U				10.0000		U	10.0000	U
CARBON DISULFIDE	UG/L	5.0000	UJ	10.0000	U				1.0000		J	2.0000	J
CARBON TETRACHLORIDE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
CHLOROBENZENE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
CHLOROETHANE	UG/L	6.0000	J	10.0000	U				2.0000		J	10.0000	U
CHLOROFORM	UG/L	38.0000	-	99.0000	-				1300.0000		-	1100.0000	J
CHLOROMETHANE	UG/L	10.0000	UJ	10.0000	U				10.0000		U	10.0000	U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
DIBROMOCHLOROMETHANE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
ETHYLBENZENE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
ISOBUTYL ALCOHOL	UG/L	19.0000	J						59.0000		J		
METHYLENE CHLORIDE	UG/L	55.0000	J	24.0000	UJ				490.0000		-	380.0000	J
STYRENE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
TETRACHLOROETHENE	UG/L	140.0000	-	140.0000	-				4.0000		J	4.0000	J
TOLUENE	UG/L	3.0000	J	3.0000	J				6.0000		-	5.0000	J
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000	UJ	10.0000	U				5.0000		U	10.0000	U
TRICHLOROETHENE	UG/L	39.0000	J	13.0000	-				3.0000		J	4.0000	J
TRICHLOROFLUOROMETHANE	UG/L	10.0000	UJ						2.0000		J		
VINYL ACETATE	UG/L	10.0000	UJ						10.0000		UJ		
VINYL CHLORIDE	UG/L	10.0000	UJ	35.0000	-				10.0000		U	10.0000	U
XYLENES, TOTAL	UG/L	5.0000	J	2.0000	J				1.0000		J	10.0000	U

001888

9704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	123006	063934	123007	123009	063940
TASK:	10.03.08	10.03.01	10.03.08	10.03.08	10.03.01
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1774	1775	1775	1775	1776
DEPTH:	-	-	-	-	-
DATE COLLECTED:	21-JUN-93	12-NOV-91	22-JUN-93	22-JUN-93	14-NOV-91
NORTH COORDINATE:	481765.34	481688.37	481688.37	481688.37	481718.86
EAST COORDINATE:	1378912.61	1378835.02	1378835.02	1378835.02	1378630.15
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-FIL	NONE-FIL	NONE-FIL	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
BROMIDE	MG/L				1.0000		U									
DIOXINS/FURANS																
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L				0.4500		U									
1,2,3,4,6,7,8-HEPTACHLORODIBEN	NG/L				0.6600		U									
1,2,3,4,7,8,9-HEPTACHLORODIBEN	NG/L				0.9300		U									
1,2,3,4,7,8-HEXACHLORODIBENZO-	NG/L				0.5500		U									
1,2,3,4,7,8-HEXACHLORODIBENZOF	NG/L				0.9800		U									
1,2,3,6,7,8-HEXACHLORODIBENZO-	NG/L				0.4400		U									
1,2,3,6,7,8-HEXACHLORODIBENZOF	NG/L				0.8700		U									
1,2,3,7,8,9-HEXACHLORODIBENZO-	NG/L				0.4600		U									
1,2,3,7,8,9-HEXACHLORODIBENZOF	NG/L				1.1000		U									
1,2,3,7,8-PENTACHLORODIBENZO-P	NG/L				0.6100		UJ									
1,2,3,7,8-PENTACHLORODIBENZOFU	NG/L				0.9100		U									
1,4-DIOXANE	UG/L				200.0000		R							200.0000		R
2,3,4,6,7,8-HEXACHLORODIBENZOF	NG/L				1.0000		U									
2,3,4,7,8-PENTACHLORODIBENZOFU	NG/L				0.9900		U									
2,3,7,8-TETRACHLORODIBENZO-P-D	NG/L				0.5400		U									
2,3,7,8-TETRACHLORODIBENZOFURA	NG/L				2.8000		U									
HEPTACHLORODIBENZO-P-DIOXINS	NG/L				0.4500		U									
HEPTACHLORODIBENZOFURANS	NG/L				0.7700		U									
HEXACHLORODIBENZO-P-DIOXINS	NG/L				0.4800		U									
HEXACHLORODIBENZOFURANS	NG/L				0.9900		U									
OCTACHLORODIBENZO-P-DIOXIN	NG/L				1.2000		UJ									
OCTACHLORODIBENZOFURAN	NG/L				0.5800		U									
PENTACHLORODIBENZO-P-DIOXINS	NG/L				0.6100		UJ									
PENTACHLORODIBENZOFURANS	NG/L				0.9500		U									
TETRACHLORODIBENZO-P-DIOXINS	NG/L				0.9900		U									
TETRACHLORODIBENZOFURANS	NG/L				1.2000		U									

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1414

SAMPLE NUMBER:		123006			063934			123007			123009			063940		
LAB:					IT											
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				255.0000		-							3300.0000		-
AMMONIA	MG/L				81.2000		-							798.0000		-
CHLORIDE	MG/L				1888.0000		-							0.5000		U
NITRATE	MG/L				7.2600		-							5.6700		-
PH	STD				7.0900		-							12.1600		-
PHOSPHATE	MG/L				4.9700		-									
PHOSPHORUS	MG/L				1.0000		U							0.1900		-
SULFATE	MG/L				1.8500		-							2.0000		U
SULFIDE	MG/L				0.5000		U							1.4800		-
TOTAL ORGANIC CARBON	MG/L				70.0000		-							243.0000		-
HERBICIDES																
2,4,5-T	UG/L				16.0000		U							2.0000		U
2,4,5-TP (SILVEX)	UG/L				15.0000		U							1.8000		U
2,4-D	UG/L				81.0000		U							10.0000		U
INORGANICS																
ALUMINUM	MG/L				1.2700		J	8.0000		-				0.6490		J
ANTIMONY	MG/L				0.1980		J	0.0064		J				0.0956		J
ARSENIC	MG/L				0.0025		J	0.0131		J				0.0494		-
BARIUM	MG/L				0.0987		-	1.9700		-				2.4000		J
BERYLLIUM	MG/L				0.0103		-	0.0057		-				0.0037		-
BORON	MG/L				1.0100		J							0.3690		J
CADMIUM	MG/L				0.0298		J	0.0050		UJ				0.0100		U
CALCIUM	MG/L				78.6000		-	102.0000		-				2540.0000		-
CHROMIUM	MG/L				0.2410		J	0.0100		UJ				0.1290		J
COBALT	MG/L				0.0521		J	0.0124		-				0.0191		J
COPPER	MG/L				0.0663		J	0.0895		-				0.0447		J
CYANIDE	MG/L				0.0246		J	0.0049		-				0.0036		-
IRON	MG/L				10.2000		-	5.1800		-				0.1890		J
LEAD	MG/L				0.0020		U	0.0588		-				0.0100		-
MAGNESIUM	MG/L				227.0000		-	296.0000		-				0.7820		-
MANGANESE	MG/L				44.0000		-	41.0000		-				0.0250		J
MERCURY	MG/L				0.0002		U	0.0002		U				0.0002		UJ
MOLYBDENUM	MG/L				0.5610		J	0.4340		-				0.2890		J
NICKEL	MG/L				0.2320		J	0.2230		-				0.2990		J
POTASSIUM	MG/L				189.0000		-	198.0000		-				445.0000		-
SELENIUM	MG/L				0.0020		UJ	0.0027		J				0.0020		UJ
SILICON	MG/L				15.3000		-	35.7000		-				1.3500		J
SILVER	MG/L				0.1240		J	0.0749		-				0.1070		J
SODIUM	MG/L				778.0000		-	774.0000		-				0.1000		U
THALLIUM	MG/L				0.0020		UJ	0.0020		UJ				0.0020		U
TIN	MG/L				0.2000		U							0.2000		U

001890

0204

SAMPLE NUMBER:		123006			063934		123007			123009			063940	
LAB:					IT								IT	
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)
INORGANICS														
VANADIUM	MG/L				0.1100	J	0.0100		UR				0.0743	J
ZINC	MG/L				0.0089	J	0.0716		-				0.0156	-
MISC														
1,2,3-TRICHLOROPROPANE	UG/L				10.0000	U							10.0000	U
1,2,4,5-TETRACHLOROBENZENE	UG/L				10.0000	UJ							10.0000	U
1,2-DIBROMO-3-CHLOROPROPANE	UG/L				10.0000	U							10.0000	U
1,2-DIBROMOETHANE	UG/L				10.0000	U							10.0000	U
1,3,5-TRINITROBENZENE	UG/L				10.0000	R							10.0000	U
1,3-DINITROBENZENE	UG/L				10.0000	UJ							10.0000	U
1,4-NAPHTHOQUINONE	UG/L				10.0000	R							10.0000	U
1-NAPHTHYLAMINE	UG/L				120.0000	R							120.0000	U
2,3,4,6-TETRACHLOROPHENOL	UG/L				10.0000	UJ							10.0000	UJ
2,6-DICHLOROPHENOL	UG/L				10.0000	UJ							10.0000	UJ
2-ACETYLAMINOFLUORENE	UG/L				10.0000	U							10.0000	U
2-CHLORO-1,3-BUTADIENE	UG/L				10.0000	U							10.0000	U
2-NAPHTHYLAMINE	UG/L				170.0000	R							170.0000	U
2-PICOLINE	UG/L				70.0000	UJ							51.0000	J
3,3'-DIMETHYLBENZIDINE	UG/L				80.0000	U							80.0000	U
3-CHLOROPROPENE	UG/L				10.0000	UJ							43.0000	J
3-METHYLCHOLANTHRENE	UG/L				30.0000	U							30.0000	U
3-METHYLPHENOL	UG/L				10.0000	R							10.0000	U
4-AMINOBIPHENYL	UG/L				50.0000	UJ							50.0000	U
4-CHLOROANILINE	UG/L				10.0000	U							10.0000	U
4-NITROQUINOLINE-1-OXIDE	UG/L				10.0000	R							10.0000	R
5-NITRO-O-TOLUIDINE	UG/L				20.0000	R							20.0000	U
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L				20.0000	UJ							20.0000	U
A,A-DIMETHYLPHENETHYLAMINE	UG/L				10.0000	UJ							10.0000	R
ACETONITRILE	UG/L				19.0000	J							20.0000	UJ
ACETOPHENONE	UG/L				10.0000	R							4.0000	J
ACROLEIN	UG/L				20.0000	UJ							80.0000	J
ACROLEIN	UG/L				20.0000	UJ							80.0000	J
ACRYLONITRILE	UG/L				20.0000	R							64000.0000	R
ANILINE	UG/L				50.0000	U							50.0000	U
ARAMITE	UG/L				10.0000	UJ							10.0000	U
DIALLATE	UG/L				10.0000	UJ							10.0000	UJ
DIBROMOMETHANE	UG/L				10.0000	U							10.0000	U
DICHLORODIFLUOROMETHANE	UG/L				200.0000	R							200.0000	R
DINOSEB	UG/L				5.7000	U							0.7100	UJ
DIPHENYLAMINE	UG/L				10.0000	R							10.0000	U
ETHYL CYANIDE	UG/L				10.0000	UJ							5600.0000	J
ETHYL METHACRYLATE	UG/L				10.0000	U							10.0000	U
ETHYL METHANESULFONATE	UG/L				10.0000	UJ							10.0000	U
HEXACHLOROPHENE	UG/L				50.0000	UJ							50.0000	R

SAMPLE NUMBER:	123006	063934	123007	123009	063940
LAB:		IT			IT
SUFFIX/FILTERFLAG:	-	NONE-FIL	-	-	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC																
HEXACHLOROPROPENE	UG/L				20.0000		R							20.0000		R
IODOMETHANE	UG/L				10.0000		U							10.0000		U
ISODRIN	UG/L				0.5000		U							1.0000		U
ISOSAFROLE	UG/L				10.0000		UJ							10.0000		U
KEPONE	UG/L				1.0000		U							2.0000		U
METHACRYLONITRILE	UG/L				10.0000		UJ							10.0000		UJ
METHAPYRILENE	UG/L				40.0000		UJ							40.0000		UJ
METHYL METHACRYLATE	UG/L				10.0000		U							11.0000		-
METHYL METHANESULFONATE	UG/L				10.0000		R							10.0000		U
N-NITROSODI-N-BUTYLAMINE	UG/L				20.0000		UJ							20.0000		U
N-NITROSODIETHYLAMINE	UG/L				10.0000		UJ							10.0000		U
N-NITROSOMETHYLETHYLAMINE	UG/L				10.0000		UJ							10.0000		U
N-NITROSOMORPHOLINE	UG/L				10.0000		U							10.0000		U
N-NITROSOPIPERIDINE	UG/L				10.0000		UJ							10.0000		U
N-NITROSOPYRROLIDINE	UG/L				10.0000		UJ							10.0000		UJ
O-TOLUIDINE	UG/L				10.0000		UJ							10.0000		U
P-DIMETHYLAMINOAZOBENZENE	UG/L				30.0000		UJ							30.0000		U
P-PHENYLENEDIAMINE	UG/L				50.0000		UJ							50.0000		UJ
PENTACHLOROBENZENE	UG/L				20.0000		UJ							20.0000		U
PENTACHLOROETHANE	UG/L				20.0000		UJ							20.0000		U
PENTACHLORONITROBENZENE	UG/L				20.0000		U							20.0000		U
PHENACETIN	UG/L				10.0000		UJ							10.0000		U
PRONAMIDE	UG/L				30.0000		UJ							30.0000		U
SAFROLE	UG/L				10.0000		UJ							10.0000		U
TETRAETHYLPYROPHOSPHATE	UG/L				15.0000		U									
TRANS-1,4-DICHLORO-2-BUTENE	UG/L				10.0000		UJ							81.0000		J
ORGANOPHOSPHORUS																
DISULFOTON	UG/L				15.0000		U									
METHYL PARATHION	UG/L				15.0000		U									
PHORATE	UG/L				15.0000		U									
THIONAZIN	UG/L				15.0000		U									
PESTICIDES																
4,4'-DDD	UG/L				1.0000		U							2.0000		U
4,4'-DDE	UG/L				1.0000		U							2.0000		U
4,4'-DDT	UG/L				1.0000		U							2.0000		U
ALDRIN	UG/L				0.5000		U							1.0000		U
ALPHA-BHC	UG/L				0.5000		U							1.0000		U
ALPHA-CHLORDANE	UG/L				5.0000		U							10.0000		U
AROCLOR-1016	UG/L				5.0000		U							10.0000		U
AROCLOR-1221	UG/L				5.0000		U							10.0000		U
AROCLOR-1232	UG/L				5.0000		U							10.0000		U

001892

5704

SAMPLE NUMBER:		123006			063934			123007			123009			063940		
LAB:					IT									IT		
SUFFIX/FILTERFLAG:		-			DL-FIL			-			-			DL-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
AROCLOR-1242	UG/L				5.0000		U							10.0000		U
AROCLOR-1248	UG/L				5.0000		U							10.0000		U
AROCLOR-1254	UG/L				10.0000		U							20.0000		U
AROCLOR-1260	UG/L				10.0000		U							20.0000		U
BETA-BHC	UG/L				0.5000		U							1.0000		U
CHLOROBENZILATE	UG/L				1.0000		U							2.0000		U
DELTA-BHC	UG/L				0.5000		U							1.0000		U
DIELDRIN	UG/L				1.0000		U							2.0000		U
ENDOSULFAN II	UG/L				1.0000		U							2.0000		U
ENDOSULFAN SULFATE	UG/L				1.0000		U							2.0000		U
ENDOSULFAN-I	UG/L				0.5000		U							1.0000		U
ENDRIN	UG/L				1.0000		U							2.0000		U
ENDRIN KETONE	UG/L				1.0000		U							2.0000		U
GAMMA-BHC (LINDANE)	UG/L				0.5000		U							1.0000		U
GAMMA-CHLORDANE	UG/L				5.0000		U							10.0000		U
HEPTACHLOR	UG/L				0.5000		U							1.0000		U
HEPTACHLOR EPOXIDE	UG/L				0.5000		U							1.0000		U
METHOXYCHLOR	UG/L				5.0000		U							10.0000		U
SULFOTEP	UG/L				10.0000		U							10.0000		U
TOXAPHENE	UG/L				10.0000		U							20.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	18200.08900		J							26700.0000	5800	J	8.1500	1.28	J
URANIUM, TOTAL	UG/L	48500.08000		-	40800.0000	5400	-				54200.0000	7400	J	1.0000		U
URANIUM-234	PCI/L	17600.08800		J							9890.0000	2170	J	7.6700	1.22	J
THORIUM-230	PCI/L	1040.00890		J							905.0000	248	J			
RADIUM-226	PCI/L	201.00088		J	5.4600	.93	J				6.5100	3.17	J			
URANIUM-235/236	PCI/L	853.000811		J							638.0000	171	J	1.4300	.41	J
THORIUM-232	PCI/L	17.00008.8		J							30.4000	12.4	J			
THORIUM, TOTAL	UG/L	155.00080		J							277.0000	113	J			
RADIUM-228	PCI/L	492.000068		J	14.8000	3.2	R				100.0000	56	UJ			
THORIUM-228	PCI/L	17.70009		J							30.9000	12.5	J			
NEPTUNIUM-237	PCI/L	4.3600	1.36	J							3.1900	1.06	U			
PLUTONIUM-239/240	PCI/L	1.2400	.6	U	1.0000		U				1.5900	.67	J			
PLUTONIUM-238	PCI/L	0.5000	.35	UJ	1.0000		U				0.6900	.41	J			
STRONTIUM-90	PCI/L	23.60003.9		-	5.0000		UJ				2.7600	.67	J	5.0000		U
TECHNETIUM-99	PCI/L	23.4000		UJ	30.0000		U				37.5000	16	-	30.0000		UJ
RUTHENIUM-106	PCI/L	150.0000		UJ	150.0000		U				170.0000		UJ	150.0000		UJ
CESIUM-137	PCI/L	17.0000		UJ	20.0000		U				17.0000		UJ	20.0000		UJ
GROSS ALPHA	PCI/L				17100.0000	1800	NV							293.0000	123	NV
GROSS BETA	PCI/L				14700.0000	1500	NV							566.0000	96	NV
SEMIVOLATILES																

SAMPLE NUMBER:	123006	063934	123007	123009	063940
LAB:		IT	IT		IT
SUFFIX/FILTERFLAG:	-	NONE-FIL	NONE-FIL	-	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES													
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U	10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
DIBENZOFURAN	UG/L				10.0000		U	2.0000		J	10.0000		U
DIETHYL PHTHALATE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
DIMETHYL PHTHALATE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
FLUORANTHENE	UG/L				2.0000		J	10.0000		UR	10.0000		U
FLUORENE	UG/L				9.0000		J	4.0000		J	10.0000		U
HEXACHLOROBENZENE	UG/L				10.0000		U	10.0000		UR	10.0000		U
HEXACHLOROBUTADIENE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UJ	10.0000		UJ	10.0000		UJ
HEXACHLOROETHANE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
ISOPHORONE	UG/L				10.0000		UJ	10.0000		UJ	10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		UJ	10.0000		UJ	10.0000		U
N-NITROSODIMETHYLAMINE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U	10.0000		UR	10.0000		U
NAPHTHALENE	UG/L				16.0000		-	4.0000		UJ	12.0000		-
NITROBENZENE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L				15.0000		R				10.0000		U
P-CHLOROANILINE	UG/L							10.0000		UJ			
PENTACHLOROPHENOL	UG/L				50.0000		U	25.0000		UR	50.0000		U
PHENANTHRENE	UG/L				10.0000		U	10.0000		UR	10.0000		U
PHENOL	MG/L				10.0000		U	10.0000		UR	150.0000		-
PYRENE	UG/L				10.0000		U	10.0000		UJ	10.0000		U
PYRIDINE	UG/L				10.0000		U				10.0000		R
TRIBUTYL PHOSPHATE	UG/L				40.0000		U				89.0000		-
VOLATILES													
1,1,1,2-TETRACHLOROETHANE	UG/L				10.0000		U				10.0000		U
1,1,1-TRICHLOROETHANE	UG/L				5.0000		-	5.0000		J	840000.000		-
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U	10.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U	10.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L				20.0000		-	10.0000		-	500000.000		-
1,1-DICHLOROETHENE	UG/L				5.0000		U	10.0000		U	8600.0000		-
1,2-DICHLOROETHANE	UG/L				5.0000		U	10.0000		U	1100.0000		-
1,2-DICHLOROETHENE (TOTAL)	UG/L				21.0000		-	6.0000		UJ	5.0000		U
1,2-DICHLOROPROPANE	UG/L				5.0000		U	10.0000		U	5.0000		U
2-BUTANONE	UG/L				24.0000		-	8.0000		J	3500.0000		-
2-HEXANONE	UG/L				29.0000		-	3.0000		J	89.0000		-
4-METHYL-2-PENTANONE	UG/L				46.0000		-	25.0000		-	130.0000		J
ACETONE	UG/L				22.0000		J	15.0000		-	3800.0000		J
BENZENE	UG/L				5.0000		U	10.0000		U	55.0000		-
BROMODICHLOROMETHANE	UG/L				5.0000		UJ	10.0000		U	5.0000		UJ
BROMOFORM	UG/L				5.0000		U	10.0000		U	5.0000		U

001894

5704

SAMPLE NUMBER:		123006			063934		123007			123009			063940		
LAB:					IT		IT						IT		
SUFFIX/FILTERFLAG:		-			NONE-FIL		NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
BROMOMETHANE	UG/L				10.0000	U	10.0000		U				10.0000		UJ
CARBON DISULFIDE	UG/L				5.0000	U	10.0000		U				5.0000		U
CARBON TETRACHLORIDE	UG/L				5.0000	U	10.0000		U				5.0000		U
CHLOROBENZENE	UG/L				5.0000	U	10.0000		U				5.0000		U
CHLOROETHANE	UG/L				2.0000	J	10.0000		U				1700.0000		-
CHLOROFORM	UG/L				94.0000	-	490.0000		J				100.0000		-
CHLOROMETHANE	UG/L				10.0000	U	10.0000		U				10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000	U	10.0000		U				1.0000		J
DIBROMOCHLOROMETHANE	UG/L				5.0000	U	10.0000		U				5.0000		U
ETHYLBENZENE	UG/L				1.0000	J	10.0000		U				22.0000		-
ISOBUTYL ALCOHOL	UG/L				200.0000	UJ							2100.0000		J
METHYLENE CHLORIDE	UG/L				47.0000	-	39.0000		UJ				200.0000		-
STYRENE	UG/L				5.0000	U	10.0000		U				5.0000		U
TETRACHLOROETHENE	UG/L				40.0000	-	56.0000		-				2.0000		J
TOLUENE	UG/L				5.0000	U	10.0000		U				180.0000		J
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000	U	10.0000		U				500.0000		U
TRICHLOROETHENE	UG/L				99.0000	-	10.0000		-				120.0000		-
TRICHLOROFLUOROMETHANE	UG/L				1.0000	J							10.0000		UJ
VINYL ACETATE	UG/L				10.0000	UJ							10.0000		UJ
VINYL CHLORIDE	UG/L				6.0000	J	2.0000		J				1000.0000		U
XYLENES, TOTAL	UG/L				3.0000	J	1.0000		J				130.0000		-

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	123038			123044			063943			123041			062411		
TASK:	10.03.08			10.03.08			10.03.01			10.03.08			04.30		
LAB:	IT			IT			IT			IT			IT/MWL		
WELL OR BORING NUMBER:	1776			1776			1777			1777			1778		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	24-JUN-93			24-JUN-93			15-NOV-91			24-JUN-93			04-FEB-93		
NORTH COORDINATE:	481718.86			481718.86			481777.74			481777.74			480305.19		
EAST COORDINATE:	1378630.15			1378630.15			1378656.58			1378656.58			1381672.31		
QA TYPE:	NORMAL			DUPLICATE			NORMAL			NORMAL			NORMAL		
QC OF:				123038											
SUFFIX/FILTERFLAG:	NONE-FIL			NONE-FIL			NONE-FIL			NONE-FIL			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
BROMIDE MG/L							1.0000		U						
DIOXINS/FURANS															
1,2,3,4,6,7,8-HEPTACHLORODIBENNG/L							3.3000		J						
1,2,3,4,6,7,8-HEPTACHLORODIBENNG/L							0.2600		U						
1,2,3,4,7,8,9-HEPTACHLORODIBENNG/L							0.3700		U						
1,2,3,4,7,8-HEXACHLORODIBENZO-NG/L							0.8600		U						
1,2,3,4,7,8-HEXACHLORODIBENZOFNG/L							0.6900		U						
1,2,3,6,7,8-HEXACHLORODIBENZO-NG/L							0.6800		U						
1,2,3,6,7,8-HEXACHLORODIBENZOFNG/L							0.6100		U						
1,2,3,7,8,9-HEXACHLORODIBENZO-NG/L							0.7100		U						
1,2,3,7,8,9-HEXACHLORODIBENZOFNG/L							0.8000		U						
1,2,3,7,8-PENTACHLORODIBENZO-PNG/L							1.2000		UJ						
1,2,3,7,8-PENTACHLORODIBENZOFUNG/L							0.4300		U						
1,4-DIOXANE UG/L							1000.0000		J						
2,3,4,6,7,8-HEXACHLORODIBENZOFNG/L							0.7200		U						
2,3,4,7,8-PENTACHLORODIBENZOFUNG/L							0.4700		U						
2,3,7,8-TETRACHLORODIBENZO-P-DNG/L							0.8900		U						
2,3,7,8-TETRACHLORODIBENZOFURANG/L							0.6600		U						
HEPTACHLORODIBENZO-P-DIOXINS NG/L							0.7200		U						
HEPTACHLORODIBENZOFURANS NG/L							0.3100		U						
HEXACHLORODIBENZO-P-DIOXINS NG/L							0.7400		U						
HEXACHLORODIBENZOFURANS NG/L							0.7000		U						
OCTACHLORODIBENZO-P-DIOXIN NG/L							1.8000		U						
OCTACHLORODIBENZOFURAN NG/L							1.1000		U						
PENTACHLORODIBENZO-P-DIOXINS NG/L							1.3000		UJ						
PENTACHLORODIBENZOFURANS NG/L							0.4500		U						
TETRACHLORODIBENZO-P-DIOXINS NG/L							1.2000		U						
TETRACHLORODIBENZOFURANS NG/L							0.5100		UJ						

SAMPLE NUMBER:		123038			123044			063943			123041			062411		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							532.0000		-						
AMMONIA	MG/L							80.7000		-						
CHLORIDE	MG/L							1102.0000		-						
FLUORIDE	MG/L							19.3000		-						
NITRATE	MG/L							0.4000		U						
PH	STD							9.2900		-						
PHOSPHATE	MG/L							1.0000		U						
SULFATE	MG/L							160.2000		-						
SULFIDE	MG/L							0.5000		U						
TOTAL ORGANIC CARBON	MG/L							15.1000		-						
HERBICIDES																
2,4,5-T	UG/L							2.0000		U						
2,4,5-TP (SILVEX)	UG/L							1.8000		U						
2,4-D	UG/L							10.0000		U						
INORGANICS																
ALUMINUM	MG/L	2.0600		J	1.7900		J	8.5100		J	0.5270		J	0.2860		-
ANTIMONY	MG/L	0.0358		J	0.0250		UJ	0.1030		-	0.0053		UJ	0.0050		UJ
ARSENIC	MG/L	0.0554		J	0.0401		J	0.0411		-	0.0485		J	0.0020		UJ
BARIUM	MG/L	1.6600		J	1.4400		-	0.1480		J	0.0539		J	0.1740		-
BERYLLIUM	MG/L	0.0020		UJ	0.0020		U	0.0020		-	0.0020		UJ	0.0020		U
BORON	MG/L							2.1200		J						
CADMIUM	MG/L	0.0050		UJ	0.0050		U	0.0199		J	0.0050		UJ	0.0050		U
CALCIUM	MG/L	1690.0000		J	1190.0000		J	91.6000		-	15.8000		UJ	162.0000		-
CHROMIUM	MG/L	0.0236		J	0.0257		-	0.0669		-	0.0100		UJ	0.0100		U
COBALT	MG/L	0.0100		UJ	0.0100		U	0.0377		J	0.0100		UJ	0.0100		U
COPPER	MG/L	0.0145		J	0.0148		-	0.1180		J	0.0125		J	0.0100		U
CYANIDE	MG/L	0.0050		-	0.0051		-	0.0020		UJ	0.0020		U	0.0056		J
IRON	MG/L	1.3800		J	1.2100		-	8.5100		J	0.7410		J	0.0200		U
LEAD	MG/L	0.0381		J	0.0297		J	0.0981		-	0.0092		UJ	0.0020		U
MAGNESIUM	MG/L	1.6000		J	1.3500		-	139.0000		-	15.2000		J	54.8000		-
MANGANESE	MG/L	0.0557		J	0.0477		-	2.9600		-	0.1340		J	0.0867		-
MERCURY	MG/L	0.0003		J	0.0003		J	0.0003		J	0.0002		UJ	0.0002		U
MOLYBDENUM	MG/L	0.4400		J	0.5580		J	1.0500		J	1.1200		J	0.0200		U
NICKEL	MG/L	0.2190		J	0.1780		J	0.1240		J	0.0251		J	0.0200		U
POTASSIUM	MG/L	377.0000		J	353.0000		-	224.0000		-	153.0000		J	5.8600		-
SELENIUM	MG/L	0.0100		UJ	0.0020		UJ	0.0038		-	0.0020		UJ	0.0020		UJ
SILICON	MG/L	5.8000		J	6.7200		-	19.8000		J	3.4100		J	7.3000		-
SILVER	MG/L	0.0100		UJ	0.0100		U	0.0321		J	0.0100		UJ	0.0100		U
SODIUM	MG/L	1290.0000		J	1090.0000		-	699.0000		-	506.0000		J	34.9000		-
THALLIUM	MG/L	0.0100		UR	0.0100		UR	0.0020		UJ	0.0020		UR	0.0020		U
TIN	MG/L							0.2000		U						

001897

SAMPLE NUMBER:		123038			123044			063943			123041			062411		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
VANADIUM	MG/L	0.0100		UJ	0.0100		U	0.0677		J	0.0100		UJ	0.0100		U
ZINC	MG/L	0.0473		J	0.0574		-	0.2530		-	0.0690		J	0.1080		-
MISC																
1,2,3-TRICHLOROPROPANE	UG/L							10.0000		U						
1,2,4,5-TETRACHLOROBENZENE	UG/L							40.0000		U						
1,2-DIBROMO-3-CHLOROPROPANE	UG/L							10.0000		U						
1,2-DIBROMOETHANE	UG/L							10.0000		U						
1,3,5-TRINITROBENZENE	UG/L							40.0000		UJ						
1,3-DINITROBENZENE	UG/L							40.0000		U						
1,4-NAPHTHOQUINONE	UG/L							40.0000		UJ						
1-NAPHTHYLAMINE	UG/L							480.0000		U						
2,3,4,6-TETRACHLOROPHENOL	UG/L							40.0000		U						
2,6-DICHLOROPHENOL	UG/L							40.0000		UJ						
2-ACETYLAMINOFLUORENE	UG/L							40.0000		U						
2-CHLORO-1,3-BUTADIENE	UG/L							10.0000		U						
2-NAPHTHYLAMINE	UG/L							680.0000		U						
2-PICOLINE	UG/L							280.0000		U						
3,3'-DIMETHYLBENZIDINE	UG/L							320.0000		U						
3-CHLOROPROPENE	UG/L							10.0000		UJ						
3-METHYLCHOLANTHRENE	UG/L							120.0000		U						
3-METHYLPHENOL	UG/L							40.0000		U						
4-AMINOBIPHENYL	UG/L							200.0000		U						
4-CHLOROANILINE	UG/L							40.0000		U						
4-NITROQUINOLINE-1-OXIDE	UG/L							40.0000		R						
5-NITRO-O-TOLUIDINE	UG/L							80.0000		U						
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L							80.0000		U						
A,A-DIMETHYLPHENETHYLAMINE	UG/L							40.0000		UJ						
ACETONITRILE	UG/L							130.0000		J						
ACETOPHENONE	UG/L							40.0000		U						
ACROLEIN	UG/L							20.0000		UJ						
ACROLEIN	UG/L							20.0000		UJ						
ACRYLONITRILE	UG/L							20.0000		R						
ANILINE	UG/L							200.0000		U						
ARAMITE	UG/L							40.0000		UJ						
DIALLATE	UG/L							40.0000		R						
DIBROMOMETHANE	UG/L							10.0000		U						
DICHLORODIFLUOROMETHANE	UG/L							200.0000		R						
DINOSEB	UG/L							0.7000		UJ						
DIPHENYLAMINE	UG/L							40.0000		U						
ETHYL CYANIDE	UG/L							8.0000		J						
ETHYL METHACRYLATE	UG/L							10.0000		U						
ETHYL METHANESULFONATE	UG/L							40.0000		U						
HEXACHLOROPHENE	UG/L							200.0000		UJ						

SAMPLE NUMBER:	123038			123044			063943			123041			062411		
LAB:							IT								
SUFFIX/FILTERFLAG:	-			-			NONE-FIL			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
MISC															
HEXACHLOROPROPENE UG/L							80.0000		UJ						
IODOMETHANE UG/L							10.0000		U						
ISODRIN UG/L							0.0500		U						
ISOSAFROLE UG/L							40.0000		U						
KEPONE UG/L							0.1000		U						
METHACRYLONITRILE UG/L							10.0000		U						
METHAPYRILENE UG/L							160.0000		UJ						
METHYL METHACRYLATE UG/L							10.0000		U						
METHYL METHANESULFONATE UG/L							40.0000		UJ						
N-NITROSODI-N-BUTYLAMINE UG/L							80.0000		R						
N-NITROSODIETHYLAMINE UG/L							40.0000		UJ						
N-NITROSOMETHYLETHYLAMINE UG/L							40.0000		U						
N-NITROSOMORPHOLINE UG/L							40.0000		UJ						
N-NITROSOPIPERIDINE UG/L							40.0000		UJ						
N-NITROSOPYRROLIDINE UG/L							40.0000		UJ						
O-TOLUIDINE UG/L							40.0000		U						
P-DIMETHYLAMINOAZOBENZENE UG/L							120.0000		UJ						
P-PHENYLENEDIAMINE UG/L							200.0000		UJ						
PENTACHLOROBENZENE UG/L							80.0000		U						
PENTACHLOROETHANE UG/L							80.0000		U						
PENTACHLORONITROBENZENE UG/L							80.0000		U						
PHENACETIN UG/L							40.0000		U						
PRONAMIDE UG/L							120.0000		U						
SAFROLE UG/L							40.0000		UJ						
TRANS-1,4-DICHLORO-2-BUTENE UG/L							10.0000		UJ						
PESTICIDES															
4,4'-DDD UG/L							0.1000		U				0.1000		U
4,4'-DDE UG/L							0.1000		U				0.1000		U
4,4'-DDT UG/L							0.1000		U				0.1000		U
ALDRIN UG/L							0.0500		U				0.0500		U
ALPHA-BHC UG/L							0.0500		U				0.0500		U
ALPHA-CHLORDANE UG/L							0.5000		U				0.5000		U
AROCLOR-1016 UG/L							0.5000		U				0.5000		U
AROCLOR-1221 UG/L							0.5000		U				0.5000		U
AROCLOR-1232 UG/L							0.5000		U				0.5000		U
AROCLOR-1242 UG/L							0.5000		U				0.5000		U
AROCLOR-1248 UG/L							0.5000		U				0.5000		U
AROCLOR-1254 UG/L							1.0000		U				1.0000		U
AROCLOR-1260 UG/L							1.0000		U				1.0000		U
BETA-BHC UG/L							0.0500		U				0.0500		U
CHLOROBENZILATE UG/L							0.1000		U						
DELTA-BHC UG/L							0.0500		U				0.0500		U
DIELDRIN UG/L							0.1000		U				0.1000		U

SAMPLE NUMBER:	123038			123044			063943			123041			062411		
LAB:							IT						IT/MWL		
SUFFIX/FILTERFLAG:	-			-			NONE-FIL			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
PESTICIDES																
ENDOSULFAN II	UG/L							0.1000		U				0.1000		U
ENDOSULFAN SULFATE	UG/L							0.1000		U				0.1000		U
ENDOSULFAN-I	UG/L							0.0500		U				0.0500		U
ENDRIN	UG/L							0.1000		U				0.1000		U
ENDRIN KETONE	UG/L							0.1000		U				0.1000		U
GAMMA-BHC (LINDANE)	UG/L							0.0500		U				0.0500		U
GAMMA-CHLORDANE	UG/L							0.5000		U				0.5000		U
HEPTACHLOR	UG/L							0.0500		U				0.0500		U
HEPTACHLOR EPOXIDE	UG/L							0.0500		U				0.0500		U
METHOXYCHLOR	UG/L							0.5000		U				0.5000		U
SULFOTEP	UG/L							40.0000		U						
TOXAPHENE	UG/L							1.0000		U				1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	120.00086		-	78.0000	16.7	-	984.0000	118	-	326.0000	68	J	652.0000	134	J
URANIUM, TOTAL	UG/L	315.00004		-	354.0000	49	-	2870.0000	380	-	948.0000	130	-	1588.0000	162	NV
URANIUM-234	PCI/L	110.00084		-	73.8000	16.7	-	900.0000	109	-	319.0000	6.7	J	611.0000	126	J
THORIUM-230	PCI/L	16.20003.5		-	18.1000	4.1	-				44.6000	10	-	1.7300	.48	J
RADIUM-226	PCI/L	129.00082		J	122.0000	17	J	72.5000	10.4	J	2.4700	.49	J	1.0000		UNV
URANIUM-235/236	PCI/L	6.0800 1.54		-	4.5600	1.17	-	65.1000	13.5	-	16.8000	4.5	J	35.9000	7.9	J
THORIUM-232	PCI/L	2.5900 .7		-	2.3100	.67	-				0.3300	.211	J	0.2425	.1557	J
THORIUM, TOTAL	UG/L	23.60006.4		-	21.0000	6.1	-				3.0000	1.93	J	2.2100		J
RADIUM-228	PCI/L	81.000036.1		-	57.7000	21.2	-	3.0000		R	3.0000	.97	UJ	3.0000		UNV
THORIUM-228	PCI/L	4.7100 1.15		-	3.6900	.99	-				0.3100	.224	UJ	0.2220	.0781	UJ
NEPTUNIUM-237	PCI/L	0.5000 0		UJ	0.6170	.321	J				0.5000	.278	UJ	1.0000		UNV
PLUTONIUM-239/240	PCI/L	0.5000 .211		UJ	0.5000	.119	UJ	1.0000		U	0.5000	.126	UJ	1.0000	0	UNV
PLUTONIUM-238	PCI/L	0.5000 .173		UJ	0.5000	.103	UJ	1.0000		U	0.5000	.0719	UJ	1.0000	0	UNV
STRONTIUM-90	PCI/L	1.1300 .469		J	1.9500	.508	J	5.0000		U	1.0000		UJ	5.0000		UNV
TECHNETIUM-99	PCI/L	17.200010		UJ	17.5000	10.2	UJ	30.0000		U	16.7000	9.41	UJ	30.0000		UNV
RUTHENIUM-106	PCI/L	150.0000		UJ	150.0000		UJ	150.0000		U	150.0000		UJ	150.0000		UNV
CESIUM-137	PCI/L	17.0000		UJ	17.0000		UJ	20.0000		U	15.0000		UJ	20.0000		UNV
GROSS ALPHA	PCI/L							3408.0000	391	NV				1150.0000	130	NV
GROSS BETA	PCI/L							1582.0000	167	NV				559.0000	59	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	100.0000		U	100.0000		UJ	40.0000		U	50.0000		UJ	10.0000		U
1,2-DICHLOROBENZENE	UG/L	100.0000		U	100.0000		U	40.0000		U	50.0000		U	10.0000		U
1,3-DICHLOROBENZENE	UG/L	100.0000		U	100.0000		U	40.0000		U	50.0000		U	10.0000		U
1,4-DICHLOROBENZENE	UG/L	100.0000		U	100.0000		U	40.0000		U	50.0000		U	10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	250.0000		U	250.0000		U	200.0000		U	120.0000		U	50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L	100.0000		U	100.0000		U	40.0000		U	50.0000		U	10.0000		U
2,4-DICHLOROPHENOL	UG/L	100.0000		U	100.0000		U	40.0000		U	50.0000		U	10.0000		U
2,4-DIMETHYLPHENOL	UG/L	38.0000		J	33.0000		J	40.0000		U	50.0000		U	10.0000		U

SAMPLE NUMBER:		123038		123044		063943		123041		062411	
LAB:		IT		IT		IT		IT		IT/MWL	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
SEMIVOLATILES											
2,4-DINITROPHENOL	UG/L	250.0000	U	250.0000	UJ	200.0000	U	120.0000	UJ	50.0000	U
2,4-DINITROTOLUENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
2,6-DINITROTOLUENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
2-CHLORONAPHTHALENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
2-CHLOROPHENOL	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
2-METHYLNAPHTHALENE	UG/L	13.0000	J	100.0000	UJ	40.0000	U	50.0000	UJ	10.0000	U
2-METHYLPHENOL	UG/L	110.0000	-	100.0000	U	40.0000	U	50.0000	U	10.0000	U
2-NITROANILINE	UG/L	250.0000	U	250.0000	UJ	200.0000	U	120.0000	UJ	50.0000	U
2-NITROPHENOL	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
3,3'-DICHLOROBENZIDINE	UG/L	100.0000	U	100.0000	U	80.0000	U	50.0000	U	20.0000	U
3-NITROANILINE	UG/L	250.0000	UR	250.0000	UJ	200.0000	U	120.0000	UJ	50.0000	U
4,6-DINITRO-2-METHYLPHENOL	UG/L	250.0000	U	250.0000	U	200.0000	U	120.0000	U	50.0000	U
4-BROMOPHENYL PHENYL ETHER	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
4-CHLORO-3-METHYLPHENOL	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
4-CHLOROPHENYLPHENYL ETHER	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
4-METHYLPHENOL	UG/L	100.0000	U	96.0000	J	40.0000	UJ	50.0000	U	10.0000	U
4-NITROANILINE	UG/L	250.0000	U	250.0000	U	200.0000	U	120.0000	U	50.0000	U
4-NITROPHENOL	UG/L	250.0000	U	250.0000	U	200.0000	U	120.0000	U	50.0000	U
ACENAPHTHENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
ACENAPHTHYLENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
ANTHRACENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BENZO(A)ANTHRACENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BENZO(A)PYRENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BENZO(B)FLUORANTHENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BENZO(G,H,I)PERYLENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BENZO(K)FLUORANTHENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BENZOIC ACID	UG/L					200.0000	UJ			50.0000	U
BENZYL ALCOHOL	UG/L					40.0000	U			10.0000	U
BIS(2-CHLOROETHOXY)METHANE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BIS(2-CHLOROETHYL)ETHER	UG/L	100.0000	U	100.0000	UJ	40.0000	U	50.0000	UJ	10.0000	U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	100.0000	U	100.0000	UJ	40.0000	U	50.0000	UJ	10.0000	U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
BUTYL BENZYL PHTHALATE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
CARBAZOLE	UG/L	100.0000	U	100.0000	U			50.0000	U		
CHRYSENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
DI-N-BUTYL PHTHALATE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
DI-N-OCTYL PHTHALATE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
DIBENZO(A,H)ANTHRACENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
DIBENZOFURAN	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
DIETHYL PHTHALATE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
DIMETHYL PHTHALATE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
FLUORANTHENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
FLUORENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
HEXACHLOROBENZENE	UG/L	100.0000	U	100.0000	U	40.0000	U	50.0000	U	10.0000	U
HEXACHLOROBUTADIENE	UG/L	100.0000	U	100.0000	UJ	40.0000	U	50.0000	UJ	10.0000	U

SAMPLE NUMBER:		123038		123044		063943			123041			062411		
LAB:		IT		IT		IT			IT			IT/MWL		
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL			NONE-FIL			NONE-UNF		
		RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
HEXACHLOROCYCLOPENTADIENE	UG/L	100.0000	U	100.0000	U	40.0000		U	50.0000		U	10.0000		U
HEXACHLOROETHANE	UG/L	19.0000	J	100.0000	U	40.0000		U	50.0000		U	10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L	100.0000	U	100.0000	U	40.0000		U	50.0000		U	10.0000		U
ISOPHORONE	UG/L	100.0000	U	100.0000	U	40.0000		U	50.0000		U	10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	100.0000	U	100.0000	UJ	40.0000		UJ	50.0000		UJ	10.0000		U
N-NITROSODIMETHYLAMINE	UG/L					40.0000		U						
N-NITROSODIPHENYLAMINE	UG/L	100.0000	U	100.0000	U	40.0000		U	50.0000		U	10.0000		U
NAPHTHALENE	UG/L	14.0000	J	16.0000	J	40.0000		U	50.0000		U	10.0000		U
NITROBENZENE	UG/L	100.0000	U	100.0000	U	40.0000		U	50.0000		U	10.0000		U
O,O,O-TRIETHYLPHOSPHOROTHIOATE	UG/L					40.0000		UJ						
P-CHLOROANILINE	UG/L	100.0000	U	100.0000	U				50.0000		U	10.0000		U
PENTACHLOROPHENOL	UG/L	250.0000	U	250.0000	U	200.0000		U	120.0000		U	50.0000		U
PHENANTHRENE	UG/L	100.0000	U	100.0000	U	40.0000		U	50.0000		U	10.0000		U
PHENOL	MG/L	220.0000	J	220.0000	J	40.0000		U	50.0000		UJ	10.0000		U
PYRENE	UG/L	100.0000	U	100.0000	U	40.0000		U	50.0000		U	10.0000		U
PYRIDINE	UG/L					40.0000		U						
TRIBUTYL PHOSPHATE	UG/L					130.0000		-				10.0000		U
VOLATILES														
1,1,1,2-TETRACHLOROETHANE	UG/L					10.0000		U						
1,1,1-TRICHLOROETHANE	UG/L	420000.000	J	260000.000	J	37.0000		-	10.0000		U	10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	10000.0000	U	2000.0000	U	1.0000		J	10.0000		U	10.0000		U
1,1-DICHLOROETHANE	UG/L	350000.000	J	310000.000	U	640.0000		-	300.0000		U	97.0000		-
1,1-DICHLOROETHENE	UG/L	10000.0000	U	12000.0000	-	3.0000		J	10.0000		U	10.0000		U
1,2-DICHLOROETHANE	UG/L	10000.0000	U	630.0000	J	16.0000		-	12.0000		-	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	10000.0000	U	2000.0000	U	1.0000		J	10.0000		U	10.0000		U
1,2-DICHLOROPROPANE	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U
2-BUTANONE	UG/L	10000.0000	UJ	2100.0000	J	4.0000		J	10.0000		UJ	10.0000		UJ
2-HEXANONE	UG/L	10000.0000	U	2000.0000	U	10.0000		U	5.0000		J	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L	10000.0000	U	2000.0000	U	6.0000		U	2.0000		J	10.0000		UJ
ACETONE	UG/L	3000.0000	J	1700.0000	J	28.0000		UJ	8.0000		J	10.0000		UJ
BENZENE	UG/L	10000.0000	U	2000.0000	U	1.0000		J	10.0000		U	10.0000		U
BROMODICHLOROMETHANE	UG/L	10000.0000	U	2000.0000	U	5.0000		UJ	10.0000		U	10.0000		U
BROMOFORM	UG/L	10000.0000	U	2000.0000	U	5.0000		J	10.0000		U	10.0000		U
BROMOMETHANE	UG/L	10000.0000	U	2000.0000	U	10.0000		U	10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U
CARBON TETRACHLORIDE	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U
CHLOROBENZENE	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U
CHLOROETHANE	UG/L	10000.0000	U	1400.0000	J	7.0000		U	13.0000		-	7.0000		J
CHLOROFORM	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U
CHLOROMETHANE	UG/L	10000.0000	UJ	2000.0000	U	10.0000		U	10.0000		U	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U
DIBROMOCHLOROMETHANE	UG/L	10000.0000	U	2000.0000	U	5.0000		U	10.0000		U	10.0000		U

SAMPLE NUMBER:		123038		123044		063943		123041		062411	
LAB:		IT		IT		IT		IT		IT/MWL	
SUFFIX/FILTERFLAG:		NONE-FIL		NONE-FIL		NONE-FIL		NONE-FIL		NONE-UNF	
		RESULT SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
VOLATILES											
ETHYLBENZENE	UG/L	10000.0000	U	2000.0000	U	4.0000	J	10.0000	U	10.0000	U
ISOBUTYL ALCOHOL	UG/L					200.0000	U				
METHYLENE CHLORIDE	UG/L	10000.0000	U	2000.0000	U	5.0000	U	10.0000	U	10.0000	U
STYRENE	UG/L	10000.0000	U	2000.0000	U	5.0000	U	10.0000	U	10.0000	U
TETRACHLOROETHENE	UG/L	10000.0000	U	2000.0000	U	5.0000	U	10.0000	U	10.0000	U
TOLUENE	UG/L	10000.0000	U	2000.0000	U	3.0000	J	10.0000	U	10.0000	U
TRANS-1,3-DICHLOROPROPENE	UG/L	10000.0000	UJ	2000.0000	U	5.0000	U	10.0000	U	10.0000	U
TRICHLOROETHENE	UG/L	10000.0000	U	2000.0000	U	5.0000	U	10.0000	U	10.0000	U
TRICHLOROFLUOROMETHANE	UG/L					10.0000	U				
VINYL ACETATE	UG/L	10000.0000	U	2000.0000	U	10.0000	UJ	10.0000	U	10.0000	UJ
VINYL CHLORIDE	UG/L	10000.0000	U	2000.0000	U	14.0000	U	5.0000	J	10.0000	UJ
XYLENES, TOTAL	UG/L	10000.0000	U	2000.0000	U	16.0000	-	10.0000	U	10.0000	U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062025	062026	062027	062029	062030-1
TASK:	04.06	04.06	04.06	04.06	04.06
LAB:	IT	IT	WEMCO	IT	IT
WELL OR BORING NUMBER:	1779	1780	1781	1783	1784
DEPTH:	-	-	-	-	-
DATE COLLECTED:	19-SEP-91	19-SEP-91	19-SEP-91	19-SEP-91	18-SEP-91
NORTH COORDINATE:	480592.55	480594.23	480540.34	480690.77	480678.39
EAST COORDINATE:	1380159.3	1380211.84	1380174.63	1380507.82	1380546.32
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	1.1800		-	0.7970		-				1.1200		-	1.5900		NV
ANTIMONY	MG/L	0.0336		J	0.0714		J				0.0666		J	0.1150		NV
ARSENIC	MG/L	0.0020		U	0.0020		U				0.0036		-	0.0054		NV
BARIUM	MG/L	0.0735		-	0.1090		-				0.0998		-	0.3640		NV
BERYLLIUM	MG/L	0.0020		U	0.0056		-				0.0074		-	0.0101		NV
CADMIUM	MG/L	0.0070		-	0.0132		-				0.0134		-	0.0177		NV
CALCIUM	MG/L	147.0000		-	234.0000		-				179.0000		-	377.0000		NV
CHROMIUM	MG/L	0.0361		-	0.1590		-				0.2490		-	0.2050		NV
COBALT	MG/L	0.0100		U	0.0247		-				0.0486		-	0.0271		NV
COPPER	MG/L	0.0131		-	0.0334		J				0.0769		J	0.1280		NV
CYANIDE	MG/L	0.0020		UJ	0.0053		UJ				0.0081		UJ	0.0020		UNV
IRON	MG/L	0.0205		-	0.0441		-				31.5000		J	75.4000		NV
LEAD	MG/L	0.0026		J	0.0020		U				0.0136		U	0.0358		NV
MAGNESIUM	MG/L	48.5000		-	74.6000		-				72.8000		-	36.0000		NV
MANGANESE	MG/L	0.3230		J	0.4100		J				0.8780		J	1.7400		NV
MERCURY	MG/L	0.0002		U	0.0002		U				0.0002		U	0.0002		UNV
MOLYBDENUM	MG/L	0.0143		-	0.0290		-				0.0247		-	0.0807		NV
NICKEL	MG/L	0.0281		-	0.0659		-				0.0956		-	0.0419		NV
POTASSIUM	MG/L	1.8200		-	3.3400		-				10.3000		-	2.6700		NV
SELENIUM	MG/L	0.0020		UJ	0.0020		UJ				0.0020		U	0.0020		UNV
SILICON	MG/L	5.9700		-	7.0000		-				40.0000		-	6.1500		NV
SILVER	MG/L	0.0375		J	0.1090		-				0.1260		-	0.1380		NV
SODIUM	MG/L	28.1000		-	37.2000		-				38.4000		-	38.8000		NV
THALLIUM	MG/L	0.0020		UJ	0.0020		U				0.0020		U	0.0020		UNV
VANADIUM	MG/L	0.0259		-	0.0729		-				0.1350		-	0.1860		NV
ZINC	MG/L	0.0189		UJ	0.0160		U				0.1040		-	0.2320		NV
PESTICIDES																
4,4'-DDD	UG/L	1.0000		U	0.1000		U				0.1000		U	0.1000		U

SAMPLE NUMBER:		062025			062026			062027			062029			062030-1		
LAB:		IT									IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
CESIUM-137	PCI/L	20.0000		NV							20.0000		NV	20.0000		NV
GROSS ALPHA	PCI/L										13800.0000	1400	NV			
GROSS BETA	PCI/L										7190.0000	723	NV			
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
1,2-DICHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
1,3-DICHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
1,4-DICHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U							50.0000		U	50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4-DICHLOROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4-DIMETHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2,4-DINITROPHENOL	UG/L	50.0000		UJ							50.0000		UJ	50.0000		UJ
2,4-DINITROTOLUENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2,6-DINITROTOLUENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2-CHLORONAPHTHALENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2-CHLOROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2-METHYLNAPHTHALENE	UG/L	10.0000		U							10.0000		U	10.0000		U
2-METHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
2-NITROANILINE	UG/L	50.0000		U							50.0000		U	50.0000		U
2-NITROPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U							20.0000		U	20.0000		U
3-NITROANILINE	UG/L	50.0000		UJ							50.0000		UJ	50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U							50.0000		U	50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U							10.0000		U	10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U							10.0000		U	10.0000		U
4-METHYLPHENOL	UG/L	10.0000		U							10.0000		U	10.0000		U
4-NITROANILINE	UG/L	50.0000		U							50.0000		U	50.0000		U
4-NITROPHENOL	UG/L	50.0000		U							50.0000		U	50.0000		U
ACENAPHTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
ACENAPHTHYLENE	UG/L	10.0000		U							10.0000		U	10.0000		U
ANTHRACENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(A)ANTHRACENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(A)PYRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(B)FLUORANTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZO(K)FLUORANTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
BENZOIC ACID	UG/L	50.0000		U							50.0000		U	50.0000		U
BENZYL ALCOHOL	UG/L	10.0000		U							10.0000		U	10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U							10.0000		U	10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U							10.0000		U	10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U							10.0000		U	10.0000		U

SAMPLE NUMBER:	062025			062026			062027			062029			062030-1		
LAB:	IT									IT			IT		
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
CHRYSENE	UG/L	10.0000		U							10.0000		U	10.0000		U
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U							10.0000		U	10.0000		U
DIBENZOFURAN	UG/L	10.0000		U							10.0000		U	10.0000		U
DIETHYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
DIMETHYL PHTHALATE	UG/L	10.0000		U							10.0000		U	10.0000		U
FLUORANTHENE	UG/L	10.0000		U							10.0000		U	10.0000		U
FLUORENE	UG/L	10.0000		U							10.0000		U	10.0000		U
HEXACHLOROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
HEXACHLOROBUTADIENE	UG/L	10.0000		U							10.0000		U	10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U							10.0000		U	10.0000		U
HEXACHLOROETHANE	UG/L	10.0000		U							10.0000		U	10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
ISOPHORONE	UG/L	10.0000		U							10.0000		U	10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U							10.0000		U	10.0000		U
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U							10.0000		U	10.0000		U
NAPHTHALENE	UG/L	10.0000		U							10.0000		U	10.0000		U
NITROBENZENE	UG/L	10.0000		U							10.0000		U	10.0000		U
P-CHLOROANILINE	UG/L	10.0000		UJ							10.0000		UJ	10.0000		UJ
PENTACHLOROPHENOL	UG/L	50.0000		U							50.0000		U	50.0000		U
PHENANTHRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
PHENOL	MG/L	10.0000		U							10.0000		U	10.0000		U
PYRENE	UG/L	10.0000		U							10.0000		U	10.0000		U
TRIBUTYL PHOSPHATE	UG/L	10.0000		U							10.0000		U	10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U							97.0000		U	15.0000		-
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U							5.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U							5.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L	5.0000		U							20.0000		U	10.0000		-
1,1-DICHLOROETHENE	UG/L	5.0000		U							9.0000		U	5.0000		U
1,2-DICHLOROETHANE	UG/L	5.0000		U							5.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U							5.0000		U	5.0000		U
1,2-DICHLOROPROPANE	UG/L	5.0000		U							5.0000		U	5.0000		U
2-BUTANONE	UG/L	10.0000		UJ							10.0000		UJ	10.0000		UJ
2-HEXANONE	UG/L	10.0000		U							10.0000		U	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L	10.0000		U							10.0000		U	10.0000		U
ACETONE	UG/L	10.0000		U							48.0000		J	11.0000		UJ
BENZENE	UG/L	5.0000		U							5.0000		UJ	5.0000		UJ
BROMODICHLOROMETHANE	UG/L	5.0000		U							5.0000		U	5.0000		U
BROMOFORM	UG/L	5.0000		U							5.0000		U	5.0000		U

001906

B704

SAMPLE NUMBER:		062025		062026			062027			062029			062030-1		
LAB:		IT								IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
BROMOMETHANE	UG/L	10.0000		U							10.0000		U	10.0000		U
CARBON DISULFIDE	UG/L	5.0000		U							5.0000		U	5.0000		U
CARBON TETRACHLORIDE	UG/L	5.0000		U							5.0000		U	5.0000		U
CHLOROBENZENE	UG/L	5.0000		U							5.0000		UJ	5.0000		UJ
CHLOROETHANE	UG/L	10.0000		U							10.0000		U	10.0000		U
CHLOROFORM	UG/L	5.0000		U							5.0000		U	5.0000		U
CHLOROMETHANE	UG/L	10.0000		U							10.0000		U	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U							5.0000		U	5.0000		U
DIBROMOCHLOROMETHANE	UG/L	5.0000		U							5.0000		U	5.0000		U
ETHYLBENZENE	UG/L	5.0000		U							5.0000		UJ	5.0000		UJ
METHYLENE CHLORIDE	UG/L	5.0000		U							5.0000		UJ	5.0000		U
STYRENE	UG/L	5.0000		U							5.0000		UJ	5.0000		UJ
TETRACHLOROETHENE	UG/L	5.0000		U							2.0000		J	5.0000		U
TOLUENE	UG/L	5.0000		U							5.0000		U	5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U							5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L	5.0000		U							2.0000		J	5.0000		U
VINYL ACETATE	UG/L	10.0000		U							10.0000		U	10.0000		U
VINYL CHLORIDE	UG/L	10.0000		U							10.0000		U	10.0000		U
XYLENES, TOTAL	UG/L	5.0000		U							5.0000		UJ	5.0000		UJ

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062013			062014			062031			062208			062218		
TASK:	04.06			04.06			04.06			04.06			04.06		
LAB:	IT			IT			IT			IT			IT		
WELL OR BORING NUMBER:	1785			1785			1785			1785			1785		
DEPTH:	-			-			-			-			-		
DATE COLLECTED:	13-SEP-91			13-SEP-91			18-SEP-91			14-SEP-92			14-SEP-92		
NORTH COORDINATE:	480270.45			480270.45			480270.45			480270.45			480270.45		
EAST COORDINATE:	1380260.86			1380260.86			1380260.86			1380260.86			1380260.86		
QA TYPE:	NORMAL			NORMAL			NORMAL			NORMAL			DUPLICATE		
QC OF:													062208		
SUFFIX/FILTERFLAG:	NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY															
AMMONIA	MG/L				0.1000		U								
CHLORIDE	MG/L				99.4000		-								
FLUORIDE	MG/L				5.0500		-								
NITRATE	MG/L				2673.0000		J								
PHENOLS	MG/L				0.0100		U								
PHOSPHORUS	MG/L				0.1600		J								
SULFATE	MG/L				413.0000		-								
SULFIDE	MG/L				0.5000		U								
TOTAL ORGANIC CARBON	MG/L				246.0000		J								
TOTAL ORGANIC HALIDES	MG/L				0.1400		J								
TOTAL ORGANIC NITROGEN	MG/L				4.1000		J								
INORGANICS															
ALUMINUM	MG/L	1.1600		J	14.4000		J	1.0600		NV	1.6400		U	1.8000		U
ANTIMONY	MG/L	0.0689		J	0.6790		-	0.0877		NV	0.0050		U	0.0050		U
ARSENIC	MG/L	0.0020		UJ	0.0020		UJ	0.0020		UNV	0.0026		UJ	0.0025		UJ
BARIUM	MG/L	0.1210		J	0.5300		-	0.1170		NV	0.0444		-	0.0459		-
BERYLLIUM	MG/L	0.0052		J	0.0808		-	0.0070		NV	0.0020		U	0.0020		U
CADMIUM	MG/L	0.0114		J	0.1120		-	0.0138		NV	0.0050		U	0.0050		U
CALCIUM	MG/L	215.0000		J	1400.0000		-	229.0000		NV	201.0000		-	210.0000		-
CHROMIUM	MG/L	0.1700		J	2.4000		J	0.1980		NV	0.0100		UJ	0.0100		UJ
COBALT	MG/L	0.0203		J	0.3140		-	0.0302		NV	0.0100		U	0.0100		U
COPPER	MG/L	0.0627		J	0.6840		J	0.0474		NV	0.0100		U	0.0100		U
CYANIDE	MG/L	0.0078		U	0.0020		UJ	0.0046		NV	0.0020		-	0.0021		-
IRON	MG/L	0.0980		J	0.8870		J	0.0804		NV	0.0200		U	2.1400		-
LEAD	MG/L	0.0020		UJ	0.0032		J	0.0020		UNV	0.0025		U	0.0027		-
MAGNESIUM	MG/L	68.4000		J	447.0000		-	73.5000		NV	64.5000		-	67.0000		-
MANGANESE	MG/L	0.3280		J	2.4000		J	0.3330		NV	0.2660		-	0.2740		-
MERCURY	MG/L	0.0002		UJ	0.0002		U	0.0002		UNV	0.0002		U	0.0002		U

SAMPLE NUMBER:		062013			062014			062031			062208			062218		
LAB:		IT/MWL			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-FIL			F-FIL			F-FIL			U-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MOLYBDENUM	MG/L	0.0209		J	0.1930		-	0.0299		NV	0.0100		U	0.0100		U
NICKEL	MG/L	0.0448		J	0.4870		-	0.0571		NV	0.0241		-	0.0204		-
POTASSIUM	MG/L	1.6800		-	43.3000		-	1.9600		NV	2.6400		-	2.7500		-
SELENIUM	MG/L	0.0020		UJ	0.0100		U	0.0020		UNV	0.0020		U	0.0020		U
SILICON	MG/L				11.3000		-	6.9700		NV	5.5800		-	5.8100		-
SILVER	MG/L	0.1050		J	1.3100		J	0.1150		NV	0.0100		UJ	0.0100		UJ
SODIUM	MG/L	27.3000		J	174.0000		-	27.8000		NV	22.1000		-	23.9000		-
THALLIUM	MG/L	0.0020		UJ	0.0020		U	0.0020		UNV	0.0020		U	0.0020		U
VANADIUM	MG/L	0.0738		J	0.9320		J	0.0867		NV	0.0100		UJ	0.0100		UJ
ZINC	MG/L	0.0218		UJ	0.6270		J	0.0242		NV	0.0001		NV	0.0180		U
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
4,4'-DDE	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
4,4'-DDT	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
ALDRIN	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
ALPHA-BHC	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
ALPHA-CHLORDANE	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
AROCLOR-1016	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
AROCLOR-1221	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
AROCLOR-1232	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
AROCLOR-1242	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
AROCLOR-1248	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
AROCLOR-1254	UG/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
AROCLOR-1260	UG/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
BETA-BHC	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
DELTA-BHC	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
DIELDRIN	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
ENDOSULFAN II	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
ENDOSULFAN SULFATE	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
ENDOSULFAN-I	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
ENDRIN	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
ENDRIN KETONE	UG/L	0.1000		U	0.1000		U	0.1000		U	0.1000		U	0.1000		U
GAMMA-BHC (LINDANE)	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
GAMMA-CHLORDANE	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
HEPTACHLOR	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
HEPTACHLOR EPOXIDE	UG/L	0.0500		U	0.0500		U	0.0500		U	0.0500		U	0.0500		U
METHOXYCHLOR	UG/L	0.5000		U	0.5000		U	0.5000		U	0.5000		U	0.5000		U
TOXAPHENE	UG/L	1.0000		U	1.0000		U	1.0000		U	1.0000		U	1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	4706.00907		NV							11900.0000	3040	J	9790.0000	2650	J
URANIUM, TOTAL	UG/L	29370.08987		NV	649000.000	90000	NV				22800.0000	3100	-	27400.0000	3700	-

SAMPLE NUMBER:		062013			062014			062031			062208			062218		
LAB:		IT			IT						IT/RSL			IT/RSL		
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			-			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-234	PCI/L										14300.0000	3420	J	17600.0000	3800	J
THORIUM-230	PCI/L				1.0000		NV				3.5800	1.6	J	6.3000	2	J
RADIUM-226	PCI/L	1.0000		UNV							1.0000	.04	UJ	1.0000		UJ
URANIUM-235/236	PCI/L	563.00096		NV							1160.0000	927	J	1520.0000	1010	J
THORIUM-232	PCI/L				1.0000		NV				0.7150	.65	J	0.9000	.69	J
THORIUM, TOTAL	UG/L				3.2000		NV				6.4500	5.85	J	8.0900	6.22	J
RADIUM-228	PCI/L	3.0000		UNV				3.0000		UNV	3.0000		UJ	3.1400	1.96	J
THORIUM-228	PCI/L				1.3500	.55	NV				4.2900	1.8	J	4.1000	1.72	J
NEPTUNIUM-237	PCI/L										1.5900	.86	J	1.1500	.85	J
PLUTONIUM-239/240	PCI/L				1.0000		NV				0.8700		UJ	0.9700		UJ
PLUTONIUM-238	PCI/L				1.0000		NV				0.8700		UJ	0.9700		UJ
STRONTIUM-90	PCI/L	5.0000		NV	5.0000		NV				2.3200	.5	J	3.4400	.57	J
TECHNETIUM-99	PCI/L	3000.00800		NV	676.0000	78	NV				3520.0000	360	J	2140.0000	230	J
RUTHENIUM-106	PCI/L	150.0000		UNV	192.0000		NV				150.0000		UJ	150.0000		UJ
CESIUM-137	PCI/L	20.0000		NV	24.0000		NV				15.0000		UJ	15.0000		UJ
GROSS ALPHA	PCI/L							17700.0000	1800	NV	17400.0000	1800	NV	22900.0000	2300	NV
GROSS BETA	PCI/L							6890.0000	690	NV	6480.0000	650	NV	6540.0000	660	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
1,2-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
1,3-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
1,4-DICHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U	50.0000		U	50.0000		U	50.0000		UJ	50.0000		UJ
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2,4-DICHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2,4-DIMETHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2,4-DINITROPHENOL	UG/L	50.0000		U	50.0000		UJ	50.0000		UJ	50.0000		UJ	50.0000		UJ
2,4-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2,6-DINITROTOLUENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2-CHLORONAPHTHALENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2-CHLOROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2-METHYLNAPHTHALENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
2-NITROANILINE	UG/L	50.0000		U	50.0000		U	50.0000		U	50.0000		UJ	50.0000		UJ
2-NITROPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U	20.0000		U	20.0000		U	20.0000		UJ	20.0000		UJ
3-NITROANILINE	UG/L	50.0000		U	50.0000		UJ	50.0000		UJ	50.0000		UJ	50.0000		UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		U	50.0000		U	50.0000		U	50.0000		UJ	50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
4-METHYLPHENOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
4-NITROANILINE	UG/L	50.0000		U	50.0000		U	50.0000		U	50.0000		UJ	50.0000		UJ

5704

001910

SAMPLE NUMBER:		062013			062014			062031			062208			062218		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			R-UNF			R-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-NITROPHENOL	UG/L	50.0000		U	50.0000		U	50.0000		U	50.0000		UJ	50.0000		UJ
ACENAPHTHENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
ACENAPHTHYLENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
ANTHRACENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BENZO(A)ANTHRACENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BENZO(A)PYRENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BENZO(B)FLUORANTHENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BENZO(K)FLUORANTHENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BENZOIC ACID	UG/L	50.0000		U	4.0000		J	50.0000		UJ	50.0000		UJ	50.0000		UJ
BENZYL ALCOHOL	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
CHRYSENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
DIBENZOFURAN	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
DIETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
DIMETHYL PHTHALATE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
FLUORANTHENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
FLUORENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
HEXACHLOROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
HEXACHLOROBUTADIENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
HEXACHLOROETHANE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
ISOPHORONE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
NAPHTHALENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
NITROBENZENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
P-CHLOROANILINE	UG/L	10.0000		U	10.0000		UJ	10.0000		UJ	10.0000		UJ	10.0000		UJ
PENTACHLOROPHENOL	UG/L	50.0000		U	50.0000		U	50.0000		U	50.0000		UJ	50.0000		UJ
PHENANTHRENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
PHENOL	MG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
PYRENE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
TRIBUTYL PHOSPHATE	UG/L	10.0000		U	10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U	15.0000		-	13.0000		J	15.0000		J

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062013	062014	062031	062208	062218
LAB:		IT	IT	IT	IT
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		062013 RESULT	SIGMA	VAL QUAL(1)	062014 RESULT	SIGMA	VAL QUAL(1)	062031 RESULT	SIGMA	VAL QUAL(1)	062208 RESULT	SIGMA	VAL QUAL(1)	062218 RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
1,1-DICHLOROETHANE	UG/L				5.0000		U	11.0000		J	13.0000		-	14.0000		-
1,1-DICHLOROETHENE	UG/L				5.0000		U	2.0000		J	2.0000		J	2.0000		J
1,2-DICHLOROETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U	35.0000		J	36.0000		J	40.0000		J
1,2-DICHLOROPROPANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
2-BUTANONE	UG/L				10.0000		UJ	10.0000		UJ	10.0000		UJ	10.0000		UJ
2-HEXANONE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
ACETONE	UG/L				10.0000		UJ	35.0000		UJ	10.0000		U	10.0000		UJ
BENZENE	UG/L				5.0000		U	5.0000		UJ	5.0000		U	5.0000		U
BROMODICHLOROMETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
BROMOFORM	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
BROMOMETHANE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
CARBON DISULFIDE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
CARBON TETRACHLORIDE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
CHLOROBENZENE	UG/L				5.0000		U	5.0000		UJ	5.0000		U	5.0000		U
CHLOROETHANE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
CHLOROFORM	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
CHLOROMETHANE	UG/L				10.0000		U	10.0000		U	10.0000		U	10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
DIBROMOCHLOROMETHANE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
ETHYLBENZENE	UG/L				5.0000		U	5.0000		UJ	5.0000		U	5.0000		U
METHYLENE CHLORIDE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
STYRENE	UG/L				5.0000		U	5.0000		UJ	5.0000		U	5.0000		U
TETRACHLOROETHENE	UG/L				5.0000		U	5.0000		U	2.0000		J	3.0000		J
TOLUENE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U	5.0000		U	5.0000		U	5.0000		U
TRICHLOROETHENE	UG/L				5.0000		U	1.0000		J	2.0000		J	2.0000		J
VINYL ACETATE	UG/L				10.0000		U	10.0000		U	10.0000		UJ	10.0000		UJ
VINYL CHLORIDE	UG/L				10.0000		U	5.0000		J	6.0000		J	7.0000		J
XYLENES, TOTAL	UG/L				5.0000		U	5.0000		UJ	5.0000		U	5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	062219	066219	098965	098966	099094
TASK:	04.06	9.24	50.03.07	50.03.07	50.03.07
LAB:	IT	WMCO	IT	WMCO	IT-KNOX
WELL OR BORING NUMBER:	1786	1786	1836	1836	1836
DEPTH:	-	-	-	-	-
DATE COLLECTED:	15-SEP-92	15-SEP-92	07-AUG-92	07-AUG-92	03-DEC-92
NORTH COORDINATE:	480828.53	480828.53	481090.87	481090.87	481090.87
EAST COORDINATE:	1381681.73	1381681.73	1378734.69	1378734.69	1378734.69
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L													426.5000		-
AMMONIA	MG/L							0.1000		-				0.1000		-
CHLORIDE	MG/L							20.9000		-				18.2000		-
FLUORIDE	MG/L							0.2300		-				0.2150		-
NITRATE	MG/L							3.9400		-				3.0000		-
PHENOLS	MG/L							0.0100		U				0.0100		U
PHOSPHORUS	MG/L							0.1900		-				0.0660		-
SULFATE	MG/L							123.0000		-				221.0000		-
SULFIDE	MG/L							0.5000		U				0.5000		U
TOTAL ORGANIC CARBON	MG/L							1.0000		U				1.0000		U
TOTAL ORGANIC HALIDES	MG/L							0.0100		U				0.0100		U
TOTAL ORGANIC NITROGEN	MG/L							0.1700		-				0.0300		-
INORGANICS																
ALUMINUM	MG/L	4.5500		-				0.0300		U				1.5900		J
ANTIMONY	MG/L	0.0050		U										0.0050		U
ARSENIC	MG/L	0.0025		UJ				0.0025		UJ				0.0020		U
BARIUM	MG/L	0.0866		-				0.1070		-				0.1010		-
BERYLLIUM	MG/L	0.0062		-										0.0020		U
CADMIUM	MG/L	0.0050		U				0.0050		UJ				0.0050		U
CALCIUM	MG/L	269.0000		-				198.0000		-				196.0000		-
CHROMIUM	MG/L	0.0100		UJ				0.0100		U				0.0100		U
COBALT	MG/L	0.0100		U										0.0100		U
COPPER	MG/L	0.0100		U				0.0100		U				0.0100		U
CYANIDE	MG/L	0.0572		-										0.0020		U
IRON	MG/L	0.0200		U				0.0200		U				2.5600		-
LEAD	MG/L	0.0025		U				0.0025		U				0.0020		U
MAGNESIUM	MG/L	64.8000		-				58.9000		-				57.6000		-
MANGANESE	MG/L	1.0500		-				0.0228		-				0.0578		-

001913

SAMPLE NUMBER:		062219			066219			098965			098966			099094		
LAB:		IT						IT						IT-KNOX		
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U				0.0002		U				0.0002		U
MOLYBDENUM	MG/L	0.0100		U				0.0100		U				0.0200		U
NICKEL	MG/L	0.0709		-				0.0200		U				0.0200		U
POTASSIUM	MG/L	18.6000		-				0.9920		-				1.2900		-
SELENIUM	MG/L	0.0020		UJ				0.0020		U				0.0020		U
SILICON	MG/L	8.2000		-				9.2900		-				10.9000		-
SILVER	MG/L	0.0301		J				0.0100		UJ				0.0100		U
SODIUM	MG/L	219.0000		-				11.5000		-				9.9900		-
THALLIUM	MG/L	0.0020		U										0.0020		U
VANADIUM	MG/L	0.0100		UJ				0.0100		U				0.0100		U
ZINC	MG/L	0.0856		-										0.0165		-
PESTICIDES																
4,4'-DDD	UG/L	0.1000		UJ										0.1000		U
4,4'-DDE	UG/L	0.1000		UJ										0.1000		U
4,4'-DDT	UG/L	0.1000		UJ										0.1000		U
ALDRIN	UG/L	0.0500		UJ										0.0500		U
ALPHA-BHC	UG/L	0.0500		UJ										0.0500		U
ALPHA-CHLORDANE	UG/L	0.5000		UJ										0.5000		U
AROCLOR-1016	UG/L	0.5000		UJ										0.5000		U
AROCLOR-1221	UG/L	0.5000		UJ										0.5000		U
AROCLOR-1232	UG/L	0.5000		UJ										0.5000		U
AROCLOR-1242	UG/L	0.5000		UJ										0.5000		U
AROCLOR-1248	UG/L	0.5000		UJ										0.5000		U
AROCLOR-1254	UG/L	1.0000		UJ										1.0000		U
AROCLOR-1260	UG/L	1.0000		UJ										1.0000		U
BETA-BHC	UG/L	0.0500		UJ										0.0500		U
DELTA-BHC	UG/L	0.0500		UJ										0.0500		U
DIELDRIN	UG/L	0.1000		UJ										0.1000		U
ENDOSULFAN II	UG/L	0.1000		UJ										0.1000		U
ENDOSULFAN SULFATE	UG/L	0.1000		UJ										0.1000		UJ
ENDOSULFAN-I	UG/L	0.0500		UJ										0.0500		U
ENDRIN	UG/L	0.1000		UJ										0.1000		U
ENDRIN KETONE	UG/L	0.1000		UJ										0.1000		U
GAMMA-BHC (LINDANE)	UG/L	0.0500		UJ										0.0500		U
GAMMA-CHLORDANE	UG/L	0.5000		UJ										0.5000		U
HEPTACHLOR	UG/L	0.0500		UJ										0.0500		U
HEPTACHLOR EPOXIDE	UG/L	0.0500		UJ										0.0500		U
METHOXYCHLOR	UG/L	0.5000		UJ										0.5000		U
TOXAPHENE	UG/L	1.0000		UJ										1.0000		U
RADIONUCLIDES																
URANIUM-238	PCI/L	102.0000B4		J				10.3000	1.5	J				112.0000	18	-

SAMPLE NUMBER:		062219			066219			098965			098966			099094		
LAB:		IT/RSL						IT						IT/RSL		
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-FIL			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	436000.00000		J	11000.0000		NV	27.9000	4	-	25.0000		NV	22.9000	3.2	-
URANIUM-234	PCI/L	172.00007		J				6.9300	1.14	J				104.0000	18	J
THORIUM-230	PCI/L	0.5900	.29	J				1.0000		U						
RADIUM-226	PCI/L	3.7500	.68	-				1.0000		U				1.0000		UJ
URANIUM-235/236	PCI/L	76.600031.6		J				1.0000		U				4.4500	1.24	J
THORIUM-232	PCI/L	0.2000		UJ				1.0000		U						
THORIUM, TOTAL	UG/L	1.8000		UJ	23000.0000		NV	2.5000		U						
RADIUM-228	PCI/L	14.40002.6		J				3.0000		U				3.0000		UJ
THORIUM-228	PCI/L	0.4200	.25	J				1.3000	.54	J						
NEPTUNIUM-237	PCI/L	0.5000	.19	UJ				1.0000		UJ				0.5000		UJ
PLUTONIUM-239/240	PCI/L	0.5000	.13	UJ				1.0000		U				0.5000		UJ
PLUTONIUM-238	PCI/L	0.5000	.08	UJ				1.0000		U				0.5000		UJ
STRONTIUM-90	PCI/L	1.0000		UJ				5.0000		UJ				1.0000		UJ
TECHNETIUM-99	PCI/L	886.00092		J				248.0000	33	J				219.0000	2.8	J
RUTHENIUM-106	PCI/L	150.0000		UJ				150.0000		U				150.0000		UJ
CESIUM-137	PCI/L	14.0000		UJ				20.0000		U				17.0000		UJ
GROSS ALPHA	PCI/L	236000.00000		NV				14.9000	8.3	NV				11.7000	8.2	NV
GROSS BETA	PCI/L	80300.08000		NV				125.0000	16	NV				117.0000	16	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		UJ										10.0000		U
1,2-DICHLOROBENZENE	UG/L	10.0000		UJ										10.0000		U
1,3-DICHLOROBENZENE	UG/L	10.0000		UJ										10.0000		U
1,4-DICHLOROBENZENE	UG/L	10.0000		UJ										10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		UJ										50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		UJ										10.0000		U
2,4-DICHLOROPHENOL	UG/L	10.0000		UJ										10.0000		U
2,4-DIMETHYLPHENOL	UG/L	10.0000		UJ										10.0000		U
2,4-DINITROPHENOL	UG/L	50.0000		UJ										50.0000		U
2,4-DINITROTOLUENE	UG/L	10.0000		UJ										10.0000		U
2,6-DINITROTOLUENE	UG/L	10.0000		UJ										10.0000		U
2-CHLORONAPHTHALENE	UG/L	10.0000		UJ										10.0000		U
2-CHLOROPHENOL	UG/L	10.0000		UJ										10.0000		U
2-METHYLNAPHTHALENE	UG/L	10.0000		UJ										10.0000		U
2-METHYLPHENOL	UG/L	10.0000		UJ										10.0000		U
2-NITROANILINE	UG/L	50.0000		UJ										50.0000		U
2-NITROPHENOL	UG/L	10.0000		UJ										10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		UJ										20.0000		U
3-NITROANILINE	UG/L	50.0000		UJ										50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		UJ										50.0000		U
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		UJ										10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		UJ										10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		UJ										10.0000		U
4-METHYLPHENOL	UG/L	10.0000		UJ										10.0000		U

SAMPLE NUMBER:		062219			066219			098965			098966			099094		
LAB:		IT												IT-KNOX		
SUFFIX/FILTERFLAG:		R-UNF			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-NITROANILINE	UG/L	50.0000		UJ										50.0000		U
4-NITROPHENOL	UG/L	50.0000		UJ										50.0000		U
ACENAPHTHENE	UG/L	10.0000		UJ										10.0000		U
ACENAPHTHYLENE	UG/L	10.0000		UJ										10.0000		U
ANTHRACENE	UG/L	10.0000		UJ										10.0000		U
BENZO(A)ANTHRACENE	UG/L	10.0000		UJ										10.0000		U
BENZO(A)PYRENE	UG/L	10.0000		UJ										10.0000		U
BENZO(B)FLUORANTHENE	UG/L	10.0000		UJ										10.0000		U
BENZO(G,H,I)PERYLENE	UG/L	10.0000		UJ										10.0000		U
BENZO(K)FLUORANTHENE	UG/L	10.0000		UJ										10.0000		U
BENZOIC ACID	UG/L	50.0000		UJ										50.0000		U
BENZYL ALCOHOL	UG/L	10.0000		UJ										10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		UJ										10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		UJ										10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		UJ										10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		UJ										10.0000		U
BUTYL BENZYL PHTHALATE	UG/L	10.0000		UJ										10.0000		U
CHRYSENE	UG/L	10.0000		UJ										10.0000		U
DI-N-BUTYL PHTHALATE	UG/L	10.0000		UJ										10.0000		U
DI-N-OCTYL PHTHALATE	UG/L	10.0000		UJ										10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		UJ										10.0000		U
DIBENZOFURAN	UG/L	10.0000		UJ										10.0000		U
DIETHYL PHTHALATE	UG/L	10.0000		UJ										10.0000		U
DIMETHYL PHTHALATE	UG/L	10.0000		UJ										10.0000		U
FLUORANTHENE	UG/L	10.0000		UJ										10.0000		U
FLUORENE	UG/L	10.0000		UJ										10.0000		U
HEXACHLOROBENZENE	UG/L	10.0000		UJ										10.0000		U
HEXACHLOROBUTADIENE	UG/L	10.0000		UJ										10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		UJ										10.0000		U
HEXACHLOROETHANE	UG/L	10.0000		UJ										10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		UJ										10.0000		U
ISOPHORONE	UG/L	10.0000		UJ										10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		UJ										10.0000		U
N-NITROSODIPHENYLAMINE	UG/L	10.0000		UJ										10.0000		U
NAPHTHALENE	UG/L	10.0000		UJ										10.0000		U
NITROBENZENE	UG/L	10.0000		UJ										10.0000		U
P-CHLOROANILINE	UG/L	10.0000		UJ										50.0000		U
PENTACHLOROPHENOL	UG/L	50.0000		UJ										10.0000		U
PHENANTHRENE	UG/L	10.0000		UJ										10.0000		U
PHENOL	MG/L	10.0000		UJ										10.0000		U
PYRENE	UG/L	10.0000		UJ										10.0000		U
TRIBUTYL PHOSPHATE	UG/L	10.0000		UJ												
VOLATILES																

001916

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

06/21/94

1,1,1-TRICHLOROETHANE	UG/L	58.0000	J				10.0000		U						10.0000		U
SAMPLE NUMBER:		062219			066219			098965			098966			099094			
LAB:		IT						IT						IT-KNOX			
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-UNF			-			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																	
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U				10.0000		U				10.0000		U
1,1,2-TRICHLOROETHANE	UG/L	1.0000		J				10.0000		U				10.0000		U
1,1-DICHLOROETHANE	UG/L	5.0000		-				10.0000		U				10.0000		U
1,1-DICHLOROETHENE	UG/L	18.0000		-				10.0000		U				10.0000		U
1,2-DICHLOROETHANE	UG/L	5.0000		U				10.0000		U				10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L	28.0000		-				10.0000		U				10.0000		U
1,2-DICHLOROPROPANE	UG/L	5.0000		U				10.0000		U				10.0000		U
2-BUTANONE	UG/L	10.0000		UJ				10.0000		UJ				10.0000		UJ
2-HEXANONE	UG/L	10.0000		UJ				10.0000		UJ				10.0000		UJ
4-METHYL-2-PENTANONE	UG/L	10.0000		UJ				10.0000		UJ				10.0000		UJ
ACETONE	UG/L	10.0000		UJ				10.0000		U				10.0000		U
BENZENE	UG/L	5.0000		U				10.0000		U				10.0000		U
BROMODICHLOROMETHANE	UG/L	5.0000		U				10.0000		U				10.0000		U
BROMOFORM	UG/L	5.0000		U				10.0000		U				10.0000		U
BROMOMETHANE	UG/L	10.0000		UJ				10.0000		U				10.0000		U
CARBON DISULFIDE	UG/L	5.0000		U				10.0000		U				10.0000		U
CARBON TETRACHLORIDE	UG/L	5.0000		U				10.0000		U				10.0000		U
CHLOROBENZENE	UG/L	5.0000		U				10.0000		U				10.0000		U
CHLOROETHANE	UG/L	10.0000		UJ				10.0000		U				10.0000		UJ
CHLOROFORM	UG/L	5.0000		U				10.0000		U				10.0000		U
CHLOROMETHANE	UG/L	10.0000		U				10.0000		U				10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U				10.0000		U				10.0000		U
DIBROMOCHLOROMETHANE	UG/L	5.0000		U				10.0000		U				10.0000		U
ETHYLBENZENE	UG/L	5.0000		U				10.0000		U				10.0000		U
METHYLENE CHLORIDE	UG/L	5.0000		U				10.0000		U				10.0000		UJ
STYRENE	UG/L	5.0000		U				10.0000		U				10.0000		U
TETRACHLOROETHENE	UG/L	220.0000		J				10.0000		U				10.0000		U
TOLUENE	UG/L	5.0000		U				10.0000		U				10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U				10.0000		U				10.0000		U
TRICHLOROETHENE	UG/L	10000.0000		-				10.0000		U				10.0000		U
VINYL ACETATE	UG/L	10.0000		UJ				10.0000		U				10.0000		UJ
VINYL CHLORIDE	UG/L	10.0000		U				10.0000		U				10.0000		U
XYLENES, TOTAL	UG/L	5.0000		U				10.0000		U				10.0000		U

001917

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		099095			123358			098957			098960			098963		
TASK:		50.03.07			10.03.08			50.03.07			50.03.07			50.03.07		
LAB:		FERMCO			IT			IT			IT			IT		
WELL OR BORING NUMBER:		1836			1836			1837			1837			1837		
DEPTH:		-			0-17			-			-			-		
DATE COLLECTED:		03-DEC-92			12-JUL-93			31-JUL-92			05-AUG-92			06-AUG-92		
NORTH COORDINATE:		481090.87			481090.87			480839.19			480839.19			480839.19		
EAST COORDINATE:		1378734.69			1378734.69			1378727.1			1378727.1			1378727.1		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L							0.1300		J						
CHLORIDE	MG/L													15.5000		-
FLUORIDE	MG/L													0.3600		-
NITRATE	MG/L										0.3000		-			
PHENOLS	MG/L										0.0100		U			
PHOSPHORUS	MG/L							0.1000		J						
SULFATE	MG/L													112.4000		-
SULFIDE	MG/L													0.5000		U
TOTAL ORGANIC CARBON	MG/L							1.5800		-						
TOTAL ORGANIC HALIDES	MG/L							0.0100		U						
TOTAL ORGANIC NITROGEN	MG/L							0.1000		U						
INORGANICS																
MOLYBDENUM	MG/L				0.0200		U									
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	21.0000		NV												
NEPTUNIUM-237	PCI/L				0.5000	.159	UJ									
PLUTONIUM-239/240	PCI/L				0.5000	.068	UJ									
PLUTONIUM-238	PCI/L				0.5000	.087	UJ									
STRONTIUM-90	PCI/L				1.0000	.356	UJ									
RUTHENIUM-106	PCI/L				150.0000		UJ									
CESIUM-137	PCI/L				9.3600		UJ									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		UJ									
1,2-DICHLOROBENZENE	UG/L				10.0000		UJ									

SAMPLE NUMBER:	099095	123358	098957	098960	098963
LAB:		IT			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
1,3-DICHLOROBENZENE	UG/L				10.0000		UJ									
1,4-DICHLOROBENZENE	UG/L				10.0000		UJ									
2,4,5-TRICHLOROPHENOL	UG/L				25.0000		UJ									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		UJ									
2,4-DICHLOROPHENOL	UG/L				10.0000		UJ									
2,4-DIMETHYLPHENOL	UG/L				10.0000		UJ									
2,4-DINITROPHENOL	UG/L				25.0000		UJ									
2,4-DINITROTOLUENE	UG/L				10.0000		UJ									
2,6-DINITROTOLUENE	UG/L				10.0000		UJ									
2-CHLORONAPHTHALENE	UG/L				10.0000		UJ									
2-CHLOROPHENOL	UG/L				10.0000		UJ									
2-METHYLNAPHTHALENE	UG/L				10.0000		UJ									
2-METHYLPHENOL	UG/L				10.0000		UJ									
2-NITROANILINE	UG/L				25.0000		UJ									
2-NITROPHENOL	UG/L				10.0000		UJ									
3,3'-DICHLOROBENZIDINE	UG/L				10.0000		UJ									
3-NITROANILINE	UG/L				25.0000		UJ									
4,6-DINITRO-2-METHYLPHENOL	UG/L				25.0000		UJ									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		UJ									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		UJ									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		UJ									
4-METHYLPHENOL	UG/L				10.0000		UJ									
4-NITROANILINE	UG/L				25.0000		UJ									
4-NITROPHENOL	UG/L				25.0000		UJ									
ACENAPHTHENE	UG/L				10.0000		UJ									
ACENAPHTHYLENE	UG/L				10.0000		UJ									
ANTHRACENE	UG/L				10.0000		UJ									
BENZO(A)ANTHRACENE	UG/L				10.0000		UJ									
BENZO(A)PYRENE	UG/L				10.0000		UJ									
BENZO(B)FLUORANTHENE	UG/L				10.0000		UJ									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		UJ									
BENZO(K)FLUORANTHENE	UG/L				10.0000		UJ									
BENZOIC ACID	UG/L				50.0000		UJ									
BENZYL ALCOHOL	UG/L				10.0000		UJ									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		UJ									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		UJ									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		UJ									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		UJ									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		UJ									
CARBAZOLE	UG/L				10.0000		UJ									
CHRYSENE	UG/L				10.0000		UJ									
CUMENE	UG/L							5.0000		U						
DI-N-BUTYL PHTHALATE	UG/L				10.0000		UJ									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UJ									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ									

SAMPLE NUMBER:		099095			123358		098957			098960			098963		
LAB:					IT										
SUFFIX/FILTERFLAG:		-			NONE-UNF		-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
DIBENZOFURAN	UG/L				10.0000	UJ									
DIETHYL PHTHALATE	UG/L				10.0000	UJ									
DIMETHYL PHTHALATE	UG/L				10.0000	UJ									
FLUORANTHENE	UG/L				10.0000	UJ									
FLUORENE	UG/L				10.0000	UJ									
HEXACHLOROBENZENE	UG/L				10.0000	UJ									
HEXACHLOROBUTADIENE	UG/L				10.0000	UJ									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000	UJ									
HEXACHLOROETHANE	UG/L				10.0000	UJ									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000	UJ									
ISOPHORONE	UG/L				10.0000	UJ									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000	UJ									
N-NITROSODIPHENYLAMINE	UG/L				10.0000	UJ									
NAPHTHALENE	UG/L				10.0000	UJ									
NITROBENZENE	UG/L				10.0000	UJ									
P-CHLOROANILINE	UG/L				10.0000	UJ									
PENTACHLOROPHENOL	UG/L				25.0000	UJ									
PHENANTHRENE	UG/L				10.0000	UJ									
PHENOL	MG/L				10.0000	UJ									
PYRENE	UG/L				10.0000	UJ									
VOLATILES															
1,1,1-TRICHLOROETHANE	UG/L						5.0000		U						
1,1,2,2-TETRACHLOROETHANE	UG/L						5.0000		U						
1,1,2-TRICHLOROETHANE	UG/L						5.0000		U						
1,1-DICHLOROETHANE	UG/L						5.0000		U						
1,1-DICHLOROETHENE	UG/L						5.0000		U						
1,2-DICHLOROETHANE	UG/L						5.0000		U						
1,2-DICHLOROETHENE (TOTAL)	UG/L						5.0000		U						
1,2-DICHLOROPROPANE	UG/L						5.0000		U						
2-BUTANONE	UG/L						10.0000		U						
2-HEXANONE	UG/L						10.0000		U						
4-METHYL-2-PENTANONE	UG/L						10.0000		U						
ACETONE	UG/L						10.0000		U						
BENZENE	UG/L						5.0000		U						
BROMODICHLOROMETHANE	UG/L						5.0000		U						
BROMOFORM	UG/L						5.0000		U						
BROMOMETHANE	UG/L						10.0000		UJ						
CARBON DISULFIDE	UG/L						5.0000		U						
CARBON TETRACHLORIDE	UG/L						5.0000		U						
CHLOROBENZENE	UG/L						5.0000		U						
CHLOROETHANE	UG/L						10.0000		UJ						
CHLOROFORM	UG/L						5.0000		U						
CHLOROMETHANE	UG/L						10.0000		U						

SAMPLE NUMBER:	099095	123358	098957	098960	098963
LAB:			IT		
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
CIS-1,3-DICHLOROPROPENE	UG/L							5.0000		U						
DIBROMOCHLOROMETHANE	UG/L							5.0000		U						
ETHYLBENZENE	UG/L							5.0000		U						
METHYLENE CHLORIDE	UG/L							5.0000		U						
STYRENE	UG/L							5.0000		U						
TETRACHLOROETHENE	UG/L							5.0000		U						
TOLUENE	UG/L							5.0000		U						
TRANS-1,3-DICHLOROPROPENE	UG/L							5.0000		U						
TRICHLOROETHENE	UG/L							5.0000		U						
VINYL ACETATE	UG/L							10.0000		U						
VINYL CHLORIDE	UG/L							10.0000		U						
XYLENES, TOTAL	UG/L							5.0000		U						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		098967			098968			098969			098970			099097		
TASK:		50.03.07			50.03.07			50.03.07			50.03.07			50.03.07		
LAB:		IT			IT			WMCO			IT			IT-KNOX		
WELL OR BORING NUMBER:		1837			1837			1837			1837			1837		
DEPTH:		-			-			-			-			-		
DATE COLLECTED:		07-AUG-92			08-AUG-92			08-AUG-92			09-AUG-92			03-DEC-92		
NORTH COORDINATE:		480839.19			480839.19			480839.19			480839.19			480839.19		
EAST COORDINATE:		1378727.1			1378727.1			1378727.1			1378727.1			1378727.1		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L	0.0300		-										1.3700		-
ANTIMONY	MG/L													0.0050		U
ARSENIC	MG/L	0.0025		U										0.0021		-
BARIUM	MG/L	0.0690		-										0.0901		-
BERYLLIUM	MG/L													0.0020		U
CADMIUM	MG/L	0.0050		UJ										0.0050		U
CALCIUM	MG/L	146.0000		-										172.0000		-
CHROMIUM	MG/L	0.0100		U										0.0169		-
COBALT	MG/L													0.0100		U
COPPER	MG/L	0.0100		U										0.0100		U
CYANIDE	MG/L													0.0099		-
IRON	MG/L	0.0200		U										2.3900		-
LEAD	MG/L	0.0025		U										0.0020		U
MAGNESIUM	MG/L	51.7000		-										59.4000		-
MANGANESE	MG/L	0.0437		-										0.1000		-
MERCURY	MG/L	0.0002		U										0.0002		U
MOLYBDENUM	MG/L	0.0100		U										0.0200		U
NICKEL	MG/L	0.0200		U										0.0206		-
POTASSIUM	MG/L	2.0200		-										2.2300		-
SELENIUM	MG/L	0.0020		U										0.0020		U
SILICON	MG/L	8.5300		-										9.7600		-
SILVER	MG/L	0.0100		UJ										0.0100		U
SODIUM	MG/L	13.0000		-										32.7000		-
THALLIUM	MG/L													0.0020		U
VANADIUM	MG/L	0.0100		U										0.0100		U
ZINC	MG/L													0.0203		-
RADIONUCLIDES																
URANIUM-238	PCI/L										5.5200	1.01	J			

001322

5704

SAMPLE NUMBER:	098967			098968			098969			098970			099097		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
URANIUM, TOTAL UG/L							9.5000		NV	10.0000	1.5	-			
URANIUM-234 PCI/L										5.8200	1.05	J			
THORIUM-230 PCI/L										1.0000		U			
RADIUM-226 PCI/L										1.0000		U			
URANIUM-235/236 PCI/L										1.0000		U			
THORIUM-232 PCI/L										1.0000		U			
THORIUM, TOTAL UG/L										2.4000		U			
RADIUM-228 PCI/L										3.0000		U			
THORIUM-228 PCI/L										1.0000		U			
PLUTONIUM-239/240 PCI/L										1.0000		U			
PLUTONIUM-238 PCI/L										1.0000		U			
STRONTIUM-90 PCI/L										5.0000		UJ			
TECHNETIUM-99 PCI/L										99.7000	18.2	J			
RUTHENIUM-106 PCI/L										150.0000		U			
CESIUM-137 PCI/L										20.0000		U			
GROSS ALPHA PCI/L				8.9900	5.96	NV									
GROSS BETA PCI/L				52.1000	8.6	NV									
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L													10.0000		U
1,1,2,2-TETRACHLOROETHANE UG/L													10.0000		U
1,1,2-TRICHLOROETHANE UG/L													10.0000		U
1,1-DICHLOROETHANE UG/L													10.0000		U
1,1-DICHLOROETHENE UG/L													10.0000		U
1,2-DICHLOROETHANE UG/L													10.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L													10.0000		U
1,2-DICHLOROPROPANE UG/L													10.0000		U
2-BUTANONE UG/L													10.0000		U
2-HEXANONE UG/L													10.0000		UJ
4-METHYL-2-PENTANONE UG/L													10.0000		UJ
ACETONE UG/L													10.0000		UJ
BENZENE UG/L													10.0000		U
BROMODICHLOROMETHANE UG/L													10.0000		U
BROMOFORM UG/L													10.0000		U
BROMOMETHANE UG/L													10.0000		U
CARBON DISULFIDE UG/L													10.0000		U
CARBON TETRACHLORIDE UG/L													10.0000		U
CHLOROBENZENE UG/L													10.0000		U
CHLOROETHANE UG/L													10.0000		UJ
CHLOROFORM UG/L													10.0000		U
CHLOROMETHANE UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE UG/L													10.0000		U
DIBROMOCHLOROMETHANE UG/L													10.0000		U
ETHYLBENZENE UG/L													10.0000		U

SAMPLE NUMBER:		098967			098968			098969			098970			099097		
LAB:														IT-KNOX		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
METHYLENE CHLORIDE	UG/L													10.0000		UJ
STYRENE	UG/L													10.0000		U
TETRACHLOROETHENE	UG/L													10.0000		U
TOLUENE	UG/L													10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L													10.0000		U
TRICHLOROETHENE	UG/L													10.0000		U
VINYL ACETATE	UG/L													10.0000		UJ
VINYL CHLORIDE	UG/L													10.0000		U
XYLENES, TOTAL	UG/L													10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	099098	099100	099105	099106	098958
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT-KNOX	IT-KNOX	IT-KNOX	FERMCO	IT
WELL OR BORING NUMBER:	1837	1837	1837	1837	1838
DEPTH:	-	-	-	-	-
DATE COLLECTED:	04-DEC-92	08-DEC-92	09-DEC-92	09-DEC-92	05-AUG-92
NORTH COORDINATE:	480839.19	480839.19	480839.19	480839.19	481173
EAST COORDINATE:	1378727.1	1378727.1	1378727.1	1378727.1	1378540.7
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							488.0000		-						
AMMONIA	MG/L	0.1000		U										0.3200		J
CHLORIDE	MG/L							23.0000		-				47.0300		-
FLUORIDE	MG/L							0.2700		-				1.0800		-
NITRATE	MG/L	0.1300		-										0.1000		U
PHENOLS	MG/L	0.0100		U										0.0100		U
PHOSPHORUS	MG/L	0.0720		-										1.6800		J
SULFATE	MG/L							292.0000		-				27.1000		-
SULFIDE	MG/L							0.5000		U				1.2800		-
TOTAL ORGANIC CARBON	MG/L				3.4000		-							1.1900		-
TOTAL ORGANIC HALIDES	MG/L				0.0340		U							0.0241		-
TOTAL ORGANIC NITROGEN	MG/L	0.1500		-										0.1900		-
INORGANICS																
ALUMINUM	MG/L													0.0471		-
ARSENIC	MG/L													0.0032		-
BARIUM	MG/L													0.0928		-
CADMIUM	MG/L													0.0050		UJ
CALCIUM	MG/L													103.0000		-
CHROMIUM	MG/L													0.0100		U
COPPER	MG/L													0.0100		U
IRON	MG/L													0.0200		U
LEAD	MG/L													0.0025		U
MAGNESIUM	MG/L													48.5000		-
MANGANESE	MG/L													0.2920		-
MERCURY	MG/L													0.0002		U
MOLYBDENUM	MG/L													0.0131		-
NICKEL	MG/L													0.0200		U
POTASSIUM	MG/L													2.7000		-

SAMPLE NUMBER:	099098			099100		099105			099106			098958		
LAB:												IT		
SUFFIX/FILTERFLAG:	-			-		-			-			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS															
SELENIUM MG/L													0.0020		U
SILICON MG/L													8.0800		-
SILVER MG/L													0.0100		UJ
SODIUM MG/L													12.6000		-
VANADIUM MG/L													0.0100		U
PESTICIDES															
4,4'-DDD UG/L				0.1000		U									
4,4'-DDE UG/L				0.1000		U									
4,4'-DDT UG/L				0.1000		U									
ALDRIN UG/L				0.0500		U									
ALPHA-BHC UG/L				0.0500		U									
ALPHA-CHLORDANE UG/L				0.5000		U									
AROCLOR-1016 UG/L				0.5000		U									
AROCLOR-1221 UG/L				0.5000		U									
AROCLOR-1232 UG/L				0.5000		U									
AROCLOR-1242 UG/L				0.5000		U									
AROCLOR-1248 UG/L				0.5000		U									
AROCLOR-1254 UG/L				1.0000		U									
AROCLOR-1260 UG/L				1.0000		U									
BETA-BHC UG/L				0.0500		U									
DELTA-BHC UG/L				0.0500		U									
DIELDRIN UG/L				0.1000		U									
ENDOSULFAN II UG/L				0.1000		U									
ENDOSULFAN SULFATE UG/L				0.1000		U									
ENDOSULFAN-I UG/L				0.0500		U									
ENDRIN UG/L				0.1000		U									
ENDRIN KETONE UG/L				0.1000		U									
GAMMA-BHC (LINDANE) UG/L				0.0500		U									
GAMMA-CHLORDANE UG/L				0.5000		U									
HEPTACHLOR UG/L				0.0500		U									
HEPTACHLOR EPOXIDE UG/L				0.0500		U									
METHOXYCHLOR UG/L				0.5000		U									
TOXAPHENE UG/L				1.0000		UJ									
RADIONUCLIDES															
URANIUM-238 PCI/L	9.9400	1.74	-										103.0000	13	-
URANIUM, TOTAL UG/L	9.8800	1.4	-							9.6000		NV	291.0000	42	-
URANIUM-234 PCI/L	9.6700	1.7	J										38.3000	5	-
THORIUM-230 PCI/L													1.0000		UJ
RADIUM-226 PCI/L	1.0000	.12	UJ										1.0000		R
URANIUM-235/236 PCI/L	0.3000		UJ										2.3900	.9	-
THORIUM-232 PCI/L													1.0000		UJ

001926

SAMPLE NUMBER:	099098			099100			099105			099106			098958		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-FIL		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM, TOTAL UG/L													2.9000		UJ
RADIUM-228 PCI/L	3.0000		UJ										3.0000		UJ
THORIUM-228 PCI/L													1.1800	.55	J
NEPTUNIUM-237 PCI/L	0.5000		UJ										1.0000		UJ
PLUTONIUM-239/240 PCI/L	0.5000		UJ										1.0000		U
PLUTONIUM-238 PCI/L	0.5000	.11	UJ										1.0000		U
STRONTIUM-90 PCI/L	1.0000		UJ										1.3200	.44	-
TECHNETIUM-99 PCI/L	22.000014		J										30.0000		U
RUTHENIUM-106 PCI/L	150.0000		UJ										150.0000		U
CESIUM-137 PCI/L	14.0000		UJ										20.0000		U
GROSS ALPHA PCI/L	14.20009.4		NV										103.0000	19	NV
GROSS BETA PCI/L	16.40006.7		NV										62.7000	8.8	NV
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L				10.0000		U									
1,2-DICHLOROBENZENE UG/L				10.0000		U									
1,3-DICHLOROBENZENE UG/L				10.0000		U									
1,4-DICHLOROBENZENE UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL UG/L				10.0000		U									
2,4-DICHLOROPHENOL UG/L				10.0000		U									
2,4-DIMETHYLPHENOL UG/L				10.0000		U									
2,4-DINITROPHENOL UG/L				50.0000		UJ									
2,4-DINITROTOLUENE UG/L				10.0000		U									
2,6-DINITROTOLUENE UG/L				10.0000		U									
2-CHLORONAPHTHALENE UG/L				10.0000		U									
2-CHLOROPHENOL UG/L				10.0000		U									
2-METHYLNAPHTHALENE UG/L				10.0000		U									
2-METHYLPHENOL UG/L				10.0000		U									
2-NITROANILINE UG/L				50.0000		U									
2-NITROPHENOL UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE UG/L				20.0000		U									
3-NITROANILINE UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL UG/L				50.0000		U									
4-BROMOPHENYL PHENYL ETHER UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER UG/L				10.0000		U									
4-METHYLPHENOL UG/L				10.0000		U									
4-NITROANILINE UG/L				50.0000		U									
4-NITROPHENOL UG/L				50.0000		U									
ACENAPHTHENE UG/L				10.0000		U									
ACENAPHTHYLENE UG/L				10.0000		U									
ANTHRACENE UG/L				10.0000		U									
BENZO(A)ANTHRACENE UG/L				10.0000		U									

SAMPLE NUMBER:		099098			099100			099105			099106			098958		
LAB:					IT-KNOX											
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		UJ									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
CUMENE	UG/L													5.0000		U
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		U									
PENTACHLOROPHENOL	UG/L				50.0000		U									
PHENANTHRENE	UG/L				10.0000		U									
PHENOL	MG/L				10.0000		U									
PYRENE	UG/L				10.0000		U									
TRIBUTYL PHOSPHATE	UG/L				10.0000		U									
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L													5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L													5.0000		U
1,1,2-TRICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHANE	UG/L													5.0000		U
1,1-DICHLOROETHENE	UG/L													5.0000		U

001928

001928

SAMPLE NUMBER:	099098			099100			099105			099106			098958		
LAB:													IT		
SUFFIX/FILTERFLAG:	-			-			-			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
1,2-DICHLOROETHANE UG/L													5.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L													5.0000		U
1,2-DICHLOROPROPANE UG/L													5.0000		U
2-BUTANONE UG/L													10.0000		U
2-HEXANONE UG/L													15.0000		UJ
4-METHYL-2-PENTANONE UG/L													7.0000		J
ACETONE UG/L													23.0000		U
BENZENE UG/L													5.0000		U
BROMODICHLOROMETHANE UG/L													5.0000		U
BROMOFORM UG/L													5.0000		U
BROMOMETHANE UG/L													10.0000		U
CARBON DISULFIDE UG/L													5.0000		U
CARBON TETRACHLORIDE UG/L													5.0000		U
CHLOROBENZENE UG/L													5.0000		U
CHLOROETHANE UG/L													10.0000		U
CHLOROFORM UG/L													5.0000		U
CHLOROMETHANE UG/L													10.0000		U
CIS-1,3-DICHLOROPROPENE UG/L													5.0000		U
DIBROMOCHLOROMETHANE UG/L													5.0000		U
ETHYLBENZENE UG/L													5.0000		U
METHYLENE CHLORIDE UG/L													5.0000		U
STYRENE UG/L													5.0000		U
TETRACHLOROETHENE UG/L													5.0000		U
TOLUENE UG/L													5.0000		U
TRANS-1,3-DICHLOROPROPENE UG/L													5.0000		U
TRICHLOROETHENE UG/L													5.0000		U
VINYL ACETATE UG/L													10.0000		U
VINYL CHLORIDE UG/L													10.0000		U
XYLENES, TOTAL UG/L													5.0000		U

001929

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	098961	099091	099092	123360	098955
TASK:	50.03.07	50.03.07	50.03.07	10.03.08	50.03.07
LAB:	WMCO	IT-KNOX	FERMCO	IT	IT
WELL OR BORING NUMBER:	1838	1838	1838	1838	1839
DEPTH:	-	-	-	0-19	-
DATE COLLECTED:	05-AUG-92	24-NOV-92	24-NOV-92	13-JUL-93	31-JUL-92
NORTH COORDINATE:	481173	481173	481173	481173	480433.9
EAST COORDINATE:	1378540.7	1378540.7	1378540.7	1378540.7	1379149.98
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				440.0000		UJ									
AMMONIA	MG/L				0.1000		U							0.1200		J
CHLORIDE	MG/L				45.0500		-							38.4800		-
FLUORIDE	MG/L				1.2000		-							0.2300		-
NITRATE	MG/L				0.1000		U							1.1000		-
PHENOLS	MG/L				0.0100		U							0.0100		U
PHOSPHORUS	MG/L				2.6300		-							0.3900		J
SULFATE	MG/L				81.5000		-							27.7000		-
SULFIDE	MG/L				0.5000		U							0.5000		U
TOTAL ORGANIC CARBON	MG/L				1.7400		-							1.9500		-
TOTAL ORGANIC HALIDES	MG/L				0.0100		U							0.0100		U
TOTAL ORGANIC NITROGEN	MG/L				2.0600		-							0.1400		-
INORGANICS																
ALUMINUM	MG/L				0.0384		U							0.0300		U
ANTIMONY	MG/L				0.0050		U									
ARSENIC	MG/L				0.0048		-							0.0025		U
BARIUM	MG/L				0.0907		-							0.1080		-
BERYLLIUM	MG/L				0.0020		U							0.0020		UNV
CADMIUM	MG/L				0.0050		U							0.0050		UJ
CALCIUM	MG/L				104.0000		-							126.0000		-
CHROMIUM	MG/L				0.0100		U							0.0100		U
COBALT	MG/L				0.0100		U							0.0100		UNV
COPPER	MG/L				0.0100		U							0.0100		U
CYANIDE	MG/L				0.0020		U									
IRON	MG/L				0.0200		U							0.3550		-
LEAD	MG/L				0.0020		UJ							0.0031		-
MAGNESIUM	MG/L				49.2000		-							43.4000		-
MANGANESE	MG/L				0.3500		-							0.1530		-

SAMPLE NUMBER:	098961	099091	099092	123360	098955
LAB:		IT/MWL			IT
SUFFIX/FILTERFLAG:	-	F-FIL	-	-	F-FIL

		098961 RESULT	SIGMA	VAL QUAL(1)	099091 RESULT	SIGMA	VAL QUAL(1)	099092 RESULT	SIGMA	VAL QUAL(1)	123360 RESULT	SIGMA	VAL QUAL(1)	098955 RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L				0.0002		U							0.0002		U
MOLYBDENUM	MG/L				0.0200		U				0.0200		U	0.0100		U
NICKEL	MG/L				0.0200		U							0.0200		U
POTASSIUM	MG/L				2.5300		-							1.0600		-
SELENIUM	MG/L				0.0020		UJ							0.0020		U
SILICON	MG/L				7.6300		-							7.3100		-
SILVER	MG/L				0.0100		-							0.0100		UJ
SODIUM	MG/L				12.7000		-							15.6000		-
THALLIUM	MG/L				0.0020		U									
VANADIUM	MG/L				0.0100		U							0.0100		U
ZINC	MG/L				0.0088		-							0.0101		NV
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.5000		U									
AROCLOR-1016	UG/L				0.5000		U									
AROCLOR-1221	UG/L				0.5000		U									
AROCLOR-1232	UG/L				0.5000		U									
AROCLOR-1242	UG/L				0.5000		U									
AROCLOR-1248	UG/L				0.5000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.5000		U									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				1.0000		U									
RADIONUCLIDES																
URANIUM-238	PCI/L				94.2000	14.6	J							1.2500	.34	J

SAMPLE NUMBER:		098961			099091			099092			123360			098955		
LAB:					IT/RSL									IT		
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	250.0000		NV	224.0000	33	J	300.0000		NV				1.9300	.2	J
URANIUM-234	PCI/L				37.9000	6.2	J							1.3600	.35	J
THORIUM-230	PCI/L													1.0000		U
RADIUM-226	PCI/L				1.0000	.08	UJ							1.0000		UJ
URANIUM-235/236	PCI/L				1.9600	.63	J							1.0000		U
THORIUM-232	PCI/L													1.0000		U
THORIUM, TOTAL	UG/L													1.6000		U
RADIUM-228	PCI/L				3.0000		UJ							3.0000		UJ
THORIUM-228	PCI/L													1.0000		U
NEPTUNIUM-237	PCI/L				0.5000	.19	UJ				0.5000	.127	UJ			
PLUTONIUM-239/240	PCI/L				0.5000		UJ				0.5000	.0444	UJ	1.0000		U
PLUTONIUM-238	PCI/L				0.5000		UJ				0.5000	.0703	UJ	1.0000		U
STRONTIUM-90	PCI/L				1.6000		UJ				1.0000	.371	UJ	5.0000		UJ
TECHNETIUM-99	PCI/L				10.0000		R							30.0000		UJ
RUTHENIUM-106	PCI/L				150.0000		UJ				150.0000		UJ	150.0000		UJ
CESIUM-137	PCI/L				14.0000		UJ				12.5000		UJ	20.0000		UJ
GROSS ALPHA	PCI/L				3670.0000	380	NV							8.0000		UNV
GROSS BETA	PCI/L				1170.0000	120	NV							9.5500	4.07	NV
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U				10.0000		UJ			
1,2-DICHLOROBENZENE	UG/L				10.0000		U				10.0000		UJ			
1,3-DICHLOROBENZENE	UG/L				10.0000		U				10.0000		UJ			
1,4-DICHLOROBENZENE	UG/L				10.0000		U				10.0000		UJ			
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U				25.0000		UJ			
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U				10.0000		UJ			
2,4-DICHLOROPHENOL	UG/L				10.0000		U				10.0000		UJ			
2,4-DIMETHYLPHENOL	UG/L				10.0000		U				10.0000		UJ			
2,4-DINITROPHENOL	UG/L				50.0000		UJ				25.0000		UJ			
2,4-DINITROTOLUENE	UG/L				10.0000		UJ				10.0000		UJ			
2,6-DINITROTOLUENE	UG/L				10.0000		U				10.0000		UJ			
2-CHLORONAPHTHALENE	UG/L				10.0000		U				10.0000		UJ			
2-CHLOROPHENOL	UG/L				10.0000		UJ				10.0000		UJ			
2-METHYLNAPHTHALENE	UG/L				10.0000		U				10.0000		UJ			
2-METHYLPHENOL	UG/L				10.0000		U				10.0000		UJ			
2-NITROANILINE	UG/L				50.0000		U				25.0000		UJ			
2-NITROPHENOL	UG/L				10.0000		U				10.0000		UJ			
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		U				10.0000		UJ			
3-NITROANILINE	UG/L				50.0000		U				25.0000		UR			
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UJ				25.0000		UJ			
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U				10.0000		UJ			
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U				10.0000		UJ			
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U				10.0000		UJ			
4-METHYLPHENOL	UG/L				10.0000		U				10.0000		UJ			

SAMPLE NUMBER:		098961			099091			099092			123360			098955		
LAB:					IT-KNOX						IT					
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-NITROANILINE	UG/L				50.0000		U				25.0000		UJ			
4-NITROPHENOL	UG/L				50.0000		U				25.0000		UJ			
ACENAPHTHENE	UG/L				10.0000		U				10.0000		UJ			
ACENAPHTHYLENE	UG/L				10.0000		U				10.0000		UJ			
ANTHRACENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(A)ANTHRACENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(A)PYRENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(B)FLUORANTHENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U				10.0000		UJ			
BENZO(K)FLUORANTHENE	UG/L				10.0000		U				10.0000		UJ			
BENZOIC ACID	UG/L				50.0000		U				50.0000		UJ			
BENZYL ALCOHOL	UG/L				10.0000		U				10.0000		UJ			
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		UJ				10.0000		UJ			
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U				10.0000		UJ			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U				10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
CARBAZOLE	UG/L										10.0000		UJ			
CHRYSENE	UG/L				10.0000		U							5.0000		U
CUMENE	UG/L										10.0000		UJ			
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U				10.0000		UJ			
DIBENZOFURAN	UG/L				10.0000		U				10.0000		UJ			
DIETHYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
DIMETHYL PHTHALATE	UG/L				10.0000		U				10.0000		UJ			
FLUORANTHENE	UG/L				10.0000		U				10.0000		UJ			
FLUORENE	UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROBENZENE	UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROBUTADIENE	UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROETHANE	UG/L				10.0000		UJ				10.0000		UJ			
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U				10.0000		UJ			
ISOPHORONE	UG/L				10.0000		UJ				10.0000		UJ			
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U				10.0000		UJ			
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U				10.0000		UJ			
NAPHTHALENE	UG/L				10.0000		U				10.0000		UJ			
NITROBENZENE	UG/L				10.0000		U				10.0000		UJ			
P-CHLOROANILINE	UG/L				10.0000		U				25.0000		UJ			
PENTACHLOROPHENOL	UG/L				50.0000		U				10.0000		UJ			
PHENANTHRENE	UG/L				10.0000		U				10.0000		UJ			
PHENOL	MG/L				10.0000		U				10.0000		UJ			
PYRENE	UG/L				10.0000		U									
TRIBUTYL PHOSPHATE	UG/L				10.0000		U									

VOLATILES

1,1,1-TRICHLOROETHANE	UG/L				5.0000		U						5.0000	U

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1460

SAMPLE NUMBER:	098961	099091	099092	123360	098955
LAB:		IT-KNOX			IT
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1-DICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1-DICHLOROETHENE	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROPROPANE	UG/L				5.0000		U							5.0000		U
2-BUTANONE	UG/L				10.0000		UJ							10.0000		U
2-HEXANONE	UG/L				10.0000		UJ							10.0000		U
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ							10.0000		U
ACETONE	UG/L				10.0000		UJ							10.0000		U
BENZENE	UG/L				5.0000		U							5.0000		U
BROMODICHLOROMETHANE	UG/L				5.0000		U							5.0000		U
BROMOFORM	UG/L				5.0000		U							5.0000		U
BROMOMETHANE	UG/L				10.0000		U							10.0000		UJ
CARBON DISULFIDE	UG/L				5.0000		U							5.0000		U
CARBON TETRACHLORIDE	UG/L				5.0000		U							5.0000		U
CHLOROBENZENE	UG/L				5.0000		U							5.0000		U
CHLOROETHANE	UG/L				10.0000		U							10.0000		UJ
CHLOROFORM	UG/L				5.0000		U							5.0000		U
CHLOROMETHANE	UG/L				10.0000		U							10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U							5.0000		U
DIBROMOCHLOROMETHANE	UG/L				5.0000		U							5.0000		U
ETHYLBENZENE	UG/L				5.0000		U							5.0000		U
METHYLENE CHLORIDE	UG/L				5.0000		U							5.0000		U
STYRENE	UG/L				5.0000		U							5.0000		U
TETRACHLOROETHENE	UG/L				5.0000		U							5.0000		U
TOLUENE	UG/L				5.0000		U							5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U							5.0000		U
TRICHLOROETHENE	UG/L				5.0000		U							5.0000		U
VINYL ACETATE	UG/L				10.0000		UJ							10.0000		U
VINYL CHLORIDE	UG/L				10.0000		U							10.0000		U
XYLENES, TOTAL	UG/L				5.0000		U							5.0000		U

SAMPLE NUMBER:		098956			099086			099088			062413			098981		
LAB:					IT/MWL											
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L				0.0002		U									
MOLYBDENUM	MG/L				0.0200		U									
NICKEL	MG/L				0.0200		U									
POTASSIUM	MG/L				0.8270		-									
SELENIUM	MG/L				0.0020		UJ									
SILICON	MG/L				7.3100		-									
SILVER	MG/L				0.0100		U									
SODIUM	MG/L				16.0000		-									
THALLIUM	MG/L				0.0100		U									
VANADIUM	MG/L				0.0100		U									
ZINC	MG/L				0.0089		-									
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.5000		U									
AROCLOR-1016	UG/L				0.5000		U									
AROCLOR-1221	UG/L				0.5000		U									
AROCLOR-1232	UG/L				0.5000		U									
AROCLOR-1242	UG/L				0.5000		U									
AROCLOR-1248	UG/L				0.5000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.5000		U									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				1.0000		U									
RADIONUCLIDES																
URANIUM-238	PCI/L				0.4700	.3	J				109.0000	18	NV			

SAMPLE NUMBER:		098956			099086			099088			062413			098981		
LAB:					IT/RSL						IT					
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	1.9000		NV	1.1800	.13	J	1.4000		NV	257.0000	37	NV			
URANIUM-234	PCI/L				0.4700	.32	J				109.0000	18	NV			
THORIUM-230	PCI/L										1.0000		UNV			
RADIUM-226	PCI/L				1.0700	.25	J				1.0000		UNV			
URANIUM-235/236	PCI/L				0.3000		UJ				5.0300	1.34	NV			
THORIUM-232	PCI/L										0.2000	.03858	UJ			
THORIUM, TOTAL	UG/L										3.8000		UNV			
RADIUM-228	PCI/L				3.0000		UJ				3.0000		UNV			
THORIUM-228	PCI/L										1.1000		UNV			
NEPTUNIUM-237	PCI/L				0.6500	.23	J				1.0000		UNV			
PLUTONIUM-239/240	PCI/L				0.5000		UJ				1.0000	0	UNV			
PLUTONIUM-238	PCI/L				0.5000		UJ				1.0000	0	UNV			
STRONTIUM-90	PCI/L				1.6000		UJ				5.0000		UNV			
TECHNETIUM-99	PCI/L				10.0000		R				30.0000		UNV			
RUTHENIUM-106	PCI/L				150.0000		UJ				150.0000		UNV			
CESIUM-137	PCI/L				14.4000		UJ				20.0000		UNV			
GROSS ALPHA	PCI/L				9.2000		UNV									
GROSS BETA	PCI/L				6.3000		UNV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U									
1,2-DICHLOROBENZENE	UG/L				10.0000		U									
1,3-DICHLOROBENZENE	UG/L				10.0000		U									
1,4-DICHLOROBENZENE	UG/L				10.0000		U									
2,4,5-TRICHLOROPHENOL	UG/L				50.0000		U									
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U									
2,4-DICHLOROPHENOL	UG/L				10.0000		U									
2,4-DIMETHYLPHENOL	UG/L				10.0000		U									
2,4-DINITROPHENOL	UG/L				50.0000		UJ									
2,4-DINITROTOLUENE	UG/L				10.0000		U									
2,6-DINITROTOLUENE	UG/L				10.0000		U									
2-CHLORONAPHTHALENE	UG/L				10.0000		U									
2-CHLOROPHENOL	UG/L				10.0000		U									
2-METHYLNAPHTHALENE	UG/L				10.0000		U									
2-METHYLPHENOL	UG/L				10.0000		U									
2-NITROANILINE	UG/L				50.0000		U									
2-NITROPHENOL	UG/L				10.0000		U									
3,3'-DICHLOROBENZIDINE	UG/L				20.0000		U									
3-NITROANILINE	UG/L				50.0000		U									
4,6-DINITRO-2-METHYLPHENOL	UG/L				50.0000		UJ									
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U									
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U									
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U									
4-METHYLPHENOL	UG/L				10.0000		U									

SAMPLE NUMBER:	098956	099086	099088	062413	098981
LAB:		IT/MWL			
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-NITROANILINE	UG/L				50.0000		U									
4-NITROPHENOL	UG/L				50.0000		U									
ACENAPHTHENE	UG/L				10.0000		U									
ACENAPHTHYLENE	UG/L				10.0000		U									
ANTHRACENE	UG/L				10.0000		U									
BENZO(A)ANTHRACENE	UG/L				10.0000		U									
BENZO(A)PYRENE	UG/L				10.0000		U									
BENZO(B)FLUORANTHENE	UG/L				10.0000		U									
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U									
BENZO(K)FLUORANTHENE	UG/L				10.0000		U									
BENZOIC ACID	UG/L				50.0000		U									
BENZYL ALCOHOL	UG/L				10.0000		U									
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U									
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U									
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U									
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		U									
BUTYL BENZYL PHTHALATE	UG/L				10.0000		U									
CHRYSENE	UG/L				10.0000		U									
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U									
DI-N-OCTYL PHTHALATE	UG/L				10.0000		U									
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		U									
DIBENZOFURAN	UG/L				10.0000		U									
DIETHYL PHTHALATE	UG/L				10.0000		U									
DIMETHYL PHTHALATE	UG/L				10.0000		U									
FLUORANTHENE	UG/L				10.0000		U									
FLUORENE	UG/L				10.0000		U									
HEXACHLOROBENZENE	UG/L				10.0000		U									
HEXACHLOROBUTADIENE	UG/L				10.0000		U									
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		U									
HEXACHLOROETHANE	UG/L				10.0000		U									
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		U									
ISOPHORONE	UG/L				10.0000		U									
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U									
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U									
NAPHTHALENE	UG/L				10.0000		U									
NITROBENZENE	UG/L				10.0000		U									
P-CHLOROANILINE	UG/L				10.0000		U									
PENTACHLOROPHENOL	UG/L				50.0000		U									
PHENANTHRENE	UG/L				10.0000		U									
PHENOL	MG/L				10.0000		U									
PYRENE	UG/L				10.0000		U									
TRIBUTYL PHOSPHATE	UG/L				10.0000		U									
VOLATILES																

1,1,1-TRICHLOROETHANE	UG/L				5.0000		U						5.0000	U
06/21/94														

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1465

SAMPLE NUMBER:	098956	099086	099088	062413	098981
LAB:		IT/MWL			IT
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U							1.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1-DICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1-DICHLOROETHENE	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROPROPANE	UG/L				5.0000		U							5.0000		U
2-BUTANONE	UG/L				10.0000		UJ							10.0000		U
2-HEXANONE	UG/L				10.0000		UJ							10.0000		U
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ							10.0000		U
ACETONE	UG/L				10.0000		UJ							10.0000		UJ
BENZENE	UG/L				5.0000		U							0.5000		J
BROMODICHLOROMETHANE	UG/L				5.0000		U							5.0000		U
BROMOFORM	UG/L				5.0000		U							5.0000		U
BROMOMETHANE	UG/L				10.0000		U							10.0000		U
CARBON DISULFIDE	UG/L				5.0000		U							5.0000		U
CARBON TETRACHLORIDE	UG/L				5.0000		U							5.0000		U
CHLOROBENZENE	UG/L				5.0000		U							5.0000		U
CHLOROETHANE	UG/L				10.0000		U							10.0000		U
CHLOROFORM	UG/L				5.0000		U							5.0000		U
CHLOROMETHANE	UG/L				10.0000		U							10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U							5.0000		U
DIBROMOCHLOROMETHANE	UG/L				5.0000		U							5.0000		U
ETHYLBENZENE	UG/L				5.0000		U							5.0000		U
METHYLENE CHLORIDE	UG/L				5.0000		U							17.0000		UJ
STYRENE	UG/L				5.0000		U							5.0000		U
TETRACHLOROETHENE	UG/L				5.0000		U							5.0000		U
TOLUENE	UG/L				5.0000		U							5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U							5.0000		U
TRICHLOROETHENE	UG/L				5.0000		U							5.0000		U
VINYL ACETATE	UG/L				10.0000		UJ							10.0000		U
VINYL CHLORIDE	UG/L				10.0000		U							10.0000		U
XYLENES, TOTAL	UG/L				5.0000		U							5.0000		U

001938

5704

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	098982	098985	098987	098988	098990
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT-KNOX	IT	IT	IT
WELL OR BORING NUMBER:	1840	1840	1840	1840	1840
DEPTH:	-	-	-	-	-
DATE COLLECTED:	25-AUG-92	26-AUG-92	27-AUG-92	07-OCT-92	15-OCT-92
NORTH COORDINATE:	479964.9	479964.9	479964.9	479964.9	479964.9
EAST COORDINATE:	1380658.84	1380658.84	1380658.84	1380658.84	1380658.84
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L							0.1700		-						
CHLORIDE	MG/L							49.6000		-						
FLUORIDE	MG/L							1.6500		-						
NITRATE	MG/L				0.1000		U									
PHENOLS	MG/L							0.0100		U						
PHOSPHORUS	MG/L							0.5800		-						
SULFATE	MG/L							174.9000		-						
SULFIDE	MG/L										0.5000		UJ			
TOTAL ORGANIC HALIDES	MG/L	77.4000		-												
TOTAL ORGANIC NITROGEN	MG/L							0.2400		-						
RADIONUCLIDES																
URANIUM-238	PCI/L													134.0000	20	R
URANIUM, TOTAL	UG/L													398.0000	55	-
URANIUM-234	PCI/L													105.0000	16	R
RADIUM-226	PCI/L													1.0000	.114	UJ
URANIUM-235/236	PCI/L													6.6600	2.74	R
RADIUM-228	PCI/L													3.0000		UJ
NEPTUNIUM-237	PCI/L													0.5000		UJ
PLUTONIUM-239/240	PCI/L													1.0000		R
PLUTONIUM-238	PCI/L													1.0000		R
STRONTIUM-90	PCI/L													1.0000		UJ
TECHNETIUM-99	PCI/L													48.2000	16.1	J
RUTHENIUM-106	PCI/L													150.0000		UJ
CESIUM-137	PCI/L													19.1000		UJ
GROSS ALPHA	PCI/L													283.0000	40	NV
GROSS BETA	PCI/L													100.0000	12	NV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		098991			098992			099117			099119			099122			
TASK:		50.03.07			50.03.07			50.03.07			50.03.07			50.03.07			
LAB:		IT			WMCO			IT-KNOX			IT-KNOX			IT			
WELL OR BORING NUMBER:		1840			1840			1840			1840			1840			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		09-OCT-92			08-OCT-92			22-DEC-92			23-DEC-92			27-JAN-93			
NORTH COORDINATE:		479964.9			479964.9			479964.9			479964.9			479964.9			
EAST COORDINATE:		1380658.84			1380658.84			1380658.84			1380658.84			1380658.84			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-FIL			NONE-FIL			NONE-UNF			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
NITRATE	MG/L										0.3200		-				
PHENOLS	MG/L										0.0100		U				
TOTAL ORGANIC CARBON	MG/L							1.0000		U							
TOTAL ORGANIC HALIDES	MG/L							0.0159		-							
INORGANICS																	
ALUMINUM	MG/L	0.0300		U													
ANTIMONY	MG/L	0.0055		-													
ARSENIC	MG/L	0.0025		U													
BARIUM	MG/L	0.0589		-													
BERYLLIUM	MG/L	0.0020		U													
CADMIUM	MG/L	0.0050		U													
CALCIUM	MG/L	81.2000		-													
CHROMIUM	MG/L	0.0100		U													
COBALT	MG/L	0.0100		U													
COPPER	MG/L	0.0100		U													
CYANIDE	MG/L													0.0020		U	
IRON	MG/L	0.0200		U													
LEAD	MG/L	0.0025		U													
MAGNESIUM	MG/L	22.4000		-													
MANGANESE	MG/L	0.0272		-													
MERCURY	MG/L	0.0002		U													
MOLYBDENUM	MG/L	0.0200		U													
NICKEL	MG/L	0.0200		U													
POTASSIUM	MG/L	1.9600		-													
SELENIUM	MG/L	0.0038		-													
SILICON	MG/L	6.2800		-													
SILVER	MG/L	0.0100		U													
SODIUM	MG/L	23.0000		-													

SAMPLE NUMBER:		098991		098992		099117		099119		099122	
LAB:		IT									
SUFFIX/FILTERFLAG:		NONE-FIL		-		-		-		-	
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
THALLIUM	MG/L	0.0020	U								
VANADIUM	MG/L	0.0100	U								
ZINC	MG/L	0.0050	U								
RADIONUCLIDES											
URANIUM, TOTAL	UG/L			390.0000	NV						
VOLATILES											
1,1,1-TRICHLOROETHANE	UG/L					10.0000	U				
1,1,2,2-TETRACHLOROETHANE	UG/L					10.0000	U				
1,1,2-TRICHLOROETHANE	UG/L					10.0000	U				
1,1-DICHLOROETHANE	UG/L					10.0000	U				
1,1-DICHLOROETHENE	UG/L					10.0000	U				
1,2-DICHLOROETHANE	UG/L					10.0000	U				
1,2-DICHLOROETHENE (TOTAL)	UG/L					10.0000	U				
1,2-DICHLOROPROPANE	UG/L					10.0000	U				
2-BUTANONE	UG/L					10.0000	U				
2-HEXANONE	UG/L					10.0000	UJ				
4-METHYL-2-PENTANONE	UG/L					10.0000	UJ				
ACETONE	UG/L					10.0000	UJ				
BENZENE	UG/L					10.0000	U				
BROMODICHLOROMETHANE	UG/L					10.0000	U				
BROMOFORM	UG/L					10.0000	U				
BROMOMETHANE	UG/L					10.0000	U				
CARBON DISULFIDE	UG/L					10.0000	U				
CARBON TETRACHLORIDE	UG/L					10.0000	U				
CHLOROBENZENE	UG/L					10.0000	U				
CHLOROETHANE	UG/L					10.0000	UJ				
CHLOROFORM	UG/L					10.0000	U				
CHLOROMETHANE	UG/L					10.0000	U				
CIS-1,3-DICHLOROPROPENE	UG/L					10.0000	U				
DIBROMOCHLOROMETHANE	UG/L					10.0000	U				
ETHYLBENZENE	UG/L					10.0000	U				
METHYLENE CHLORIDE	UG/L					10.0000	UJ				
STYRENE	UG/L					10.0000	U				
TETRACHLOROETHENE	UG/L					10.0000	U				
TOLUENE	UG/L					10.0000	U				
TRANS-1,3-DICHLOROPROPENE	UG/L					10.0000	U				
TRICHLOROETHENE	UG/L					10.0000	U				
VINYL ACETATE	UG/L					10.0000	UJ				
VINYL CHLORIDE	UG/L					10.0000	U				
XYLENES, TOTAL	UG/L					10.0000	U				

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	099127	099128	108852	108855	108862
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT	IT	IT
WELL OR BORING NUMBER:	1840	1840	1840	1840	1840
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-JAN-93	29-JAN-93	09-FEB-93	10-FEB-93	04-MAY-93
NORTH COORDINATE:	479964.9	479964.9	479964.9	479964.9	479964.9
EAST COORDINATE:	1380658.84	1380658.84	1380658.84	1380658.84	1380658.84
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L	0.1100		-												
CHLORIDE	MG/L	33.4700		-												
FLUORIDE	MG/L	1.7500		-												
PHOSPHORUS	MG/L	0.0800		U												
SULFATE	MG/L	94.3000		-												
SULFIDE	MG/L										0.5000		UJ			
TOTAL ORGANIC NITROGEN	MG/L	0.1000		U												
INORGANICS																
ALUMINUM	MG/L				0.0300		U	0.1740		-						
ANTIMONY	MG/L				0.0050		U	0.0050		U						
ARSENIC	MG/L				0.0020		U	0.0020		U						
BARIUM	MG/L				0.0528		-	0.0525		-						
BERYLLIUM	MG/L				0.0020		U	0.0020		U						
CADMIUM	MG/L				0.0050		U	0.0050		U						
CALCIUM	MG/L				93.3000		-	95.4000		-						
CHROMIUM	MG/L				0.0100		U	0.0100		U						
COBALT	MG/L				0.0100		U	0.0100		U						
COPPER	MG/L				0.0100		U	0.0100		U						
IRON	MG/L				0.0200		U	0.0200		U						
LEAD	MG/L				0.0020		U	0.0020		U						
MAGNESIUM	MG/L				40.7000		-	37.3000		-						
MANGANESE	MG/L				0.0712		-	0.0351		-						
MERCURY	MG/L				0.0002		U	0.0002		U						
MOLYBDENUM	MG/L				0.0200		U	0.0200		U						
NICKEL	MG/L				0.0200		U	0.0200		U						
POTASSIUM	MG/L				2.6500		-	2.6900		-						
SELENIUM	MG/L				0.0020		U	0.0020		UJ						
SILICON	MG/L				7.0700		-	6.6600		-						

001942

5704

SAMPLE NUMBER:		099127			099128			108852			108855			108862		
LAB:					IT			IT								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
SILVER	MG/L				0.0100		U	0.0100		U						
SODIUM	MG/L				40.2000		-	40.2000		-						
THALLIUM	MG/L				0.0020		U	0.0020		U						
VANADIUM	MG/L				0.0100		U	0.0100		U						
ZINC	MG/L				0.0050		U	0.0050		U						
RADIONUCLIDES																
URANIUM, TOTAL	UG/L													230.0000	32	J
THORIUM-230	PCI/L													0.2000		UJ
THORIUM-232	PCI/L													0.2000	.1015	UJ
THORIUM, TOTAL	UG/L													0.5000	.62	UJ
THORIUM-228	PCI/L													0.2400		UJ
GROSS ALPHA	PCI/L				155.0000	26	NV									
GROSS BETA	PCI/L				52.4000	7.7	NV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		U			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										50.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										50.0000		UJ			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										50.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										20.0000		U			
3-NITROANILINE	UG/L										50.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										50.0000		U			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										50.0000		U			
4-NITROPHENOL	UG/L										50.0000		UJ			
ACENAPHTHENE	UG/L										10.0000		U			

001944

SAMPLE NUMBER:	099127	099128	108852	108855	108862
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			
BENZO(A)PYRENE	UG/L										10.0000		U			
BENZO(B)FLUORANTHENE	UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE	UG/L										10.0000		U			
BENZO(K)FLUORANTHENE	UG/L										10.0000		U			
BENZOIC ACID	UG/L										50.0000		U			
BENZYL ALCOHOL	UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE	UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER	UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER	UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L										10.0000		UR			
BUTYL BENZYL PHTHALATE	UG/L										10.0000		U			
CHRYSENE	UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE	UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE	UG/L										10.0000		U			
DIBENZO(A,H)ANTHRACENE	UG/L										10.0000		U			
DIBENZOFURAN	UG/L										10.0000		U			
DIETHYL PHTHALATE	UG/L										10.0000		U			
DIMETHYL PHTHALATE	UG/L										10.0000		U			
FLUORANTHENE	UG/L										10.0000		U			
FLUORENE	UG/L										10.0000		U			
HEXACHLOROBENZENE	UG/L										10.0000		U			
HEXACHLOROBUTADIENE	UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE	UG/L										10.0000		U			
HEXACHLOROETHANE	UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE	UG/L										10.0000		U			
ISOPHORONE	UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE	UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE	UG/L										10.0000		U			
NAPHTHALENE	UG/L										10.0000		U			
NITROBENZENE	UG/L										10.0000		U			
P-CHLOROANILINE	UG/L										10.0000		U			
PENTACHLOROPHENOL	UG/L										50.0000		U			
PHENANTHRENE	UG/L										10.0000		U			
PHENOL	MG/L										10.0000		U			
PYRENE	UG/L										10.0000		U			
TRIBUTYL PHOSPHATE	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	108859	108861	108867	108869	30924U1842-01
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT/MWL	IT	IT	TCT
WELL OR BORING NUMBER:	1842	1842	1842	1842	1842
DEPTH:	-	-	-	-	-
DATE COLLECTED:	09-MAR-93	10-MAR-93	11-MAY-93	14-MAY-93	24-SEP-93
NORTH COORDINATE:	479927.25	479927.25	479927.25	479927.25	479927.25
EAST COORDINATE:	1381972.92	1381972.92	1381972.92	1381972.92	1381972.92
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							200.0000		-						
CHLORIDE	MG/L							14.6000		-						
FLUORIDE	MG/L							0.6600		-						
SULFATE	MG/L							59.1000		-						
INORGANICS																
ALUMINUM	MG/L				0.1900		U							1.8200		-
ANTIMONY	MG/L				0.0050		UJ							0.0110		U
ARSENIC	MG/L				0.0020		UJ							0.0022		-
BARIUM	MG/L				0.0294		-							0.0820		-
BERYLLIUM	MG/L				0.0020		U							0.0040		R
CADMIUM	MG/L				0.0050		U							0.0050		U
CALCIUM	MG/L				86.1000		-							304.0000		-
CHROMIUM	MG/L				0.0100		U							0.0060		UJ
COBALT	MG/L				0.0100		U							0.0099		-
COPPER	MG/L				0.0100		U							0.0080		UJ
CYANIDE	MG/L							0.0020		UNV						
IRON	MG/L				0.0200		U							4.3200		-
LEAD	MG/L				0.0020		U							0.0077		J
MAGNESIUM	MG/L				29.1000		-							67.8000		-
MANGANESE	MG/L				0.2020		-							0.6730		-
MERCURY	MG/L				0.0002		U							0.0001		U
MOLYBDENUM	MG/L				0.0200		U							0.0410		U
NICKEL	MG/L				0.0200		U							0.0110		U
POTASSIUM	MG/L				3.4600		-							2.6200		-
SELENIUM	MG/L				0.0020		UJ							0.0020		UJ
SILICON	MG/L				5.2900		-							24.2000		J
SILVER	MG/L				0.0100		U							0.0020		U
SODIUM	MG/L				43.4000		-							28.0000		J

SAMPLE NUMBER:	108859			108861			108867			108869			30924U1842-01		
LAB:				IT/MWL									TCT		
SUFFIX/FILTERFLAG:	-			NONE-FIL			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
THALLIUM	MG/L				0.0020		U							0.0010		UJ
VANADIUM	MG/L				0.0100		U							0.0120		U
ZINC	MG/L				0.0050		U							0.0182		-
PESTICIDES																
4,4'-DDD	UG/L										0.1000		U			
4,4'-DDE	UG/L										0.1000		U			
4,4'-DDT	UG/L										0.1000		U			
ALDRIN	UG/L										0.0500		U			
ALPHA-BHC	UG/L										0.0500		U			
ALPHA-CHLORDANE	UG/L										0.0500		U			
AROCLOR-1016	UG/L										1.0000		U			
AROCLOR-1221	UG/L										2.0000		U			
AROCLOR-1232	UG/L										1.0000		U			
AROCLOR-1242	UG/L										1.0000		U			
AROCLOR-1248	UG/L										1.0000		U			
AROCLOR-1254	UG/L										1.0000		U			
AROCLOR-1260	UG/L										1.0000		U			
BETA-BHC	UG/L										0.0500		U			
DELTA-BHC	UG/L										0.0500		U			
DIELDRIN	UG/L										0.1000		U			
ENDOSULFAN II	UG/L										0.1000		U			
ENDOSULFAN SULFATE	UG/L										0.1000		U			
ENDOSULFAN-I	UG/L										0.0500		U			
ENDRIN	UG/L										0.1000		U			
ENDRIN ALDEHYDE	UG/L										0.1000		U			
ENDRIN KETONE	UG/L										0.1000		U			
GAMMA-BHC (LINDANE)	UG/L										0.0500		U			
GAMMA-CHLORDANE	UG/L										0.0500		U			
HEPTACHLOR	UG/L										0.0500		U			
HEPTACHLOR EPOXIDE	UG/L										0.0500		U			
METHOXYCHLOR	UG/L										0.5000		U			
TOXAPHENE	UG/L										5.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L	42.20009		-												
URANIUM, TOTAL	UG/L	97.200012.8		-												
URANIUM-234	PCI/L	42.30009		-												
THORIUM-230	PCI/L	0.2300		UJ												
RADIUM-226	PCI/L	1.0000		UJ												
URANIUM-235/236	PCI/L	2.4100	.63	-												
THORIUM-232	PCI/L	0.2300		UJ												
THORIUM, TOTAL	UG/L	2.1000		UJ												

SAMPLE NUMBER:		108859			108861			108867			108869			30924U1842-01		
LAB:		IT														
SUFFIX/FILTERFLAG:		NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
RADIUM-228	PCI/L	3.0000		UJ												
THORIUM-228	PCI/L	0.2000		UJ												
NEPTUNIUM-237	PCI/L	0.5000	.102	UJ												
PLUTONIUM-239/240	PCI/L	0.5000		UJ												
PLUTONIUM-238	PCI/L	0.7437	.246	J												
STRONTIUM-90	PCI/L	1.4000		UJ												
TECHNETIUM-99	PCI/L	15.0000		UJ												
RUTHENIUM-106	PCI/L	150.0000		UJ												
CESIUM-137	PCI/L	11.0000		UJ												
GROSS ALPHA	PCI/L	63.5000	13.3	NV	77.7000	14.8	NV									
GROSS BETA	PCI/L	39.7000	6.2	NV	36.2000	5.8	NV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L										10.0000		UJ			
1,2-DICHLOROBENZENE	UG/L										10.0000		U			
1,3-DICHLOROBENZENE	UG/L										10.0000		U			
1,4-DICHLOROBENZENE	UG/L										10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L										25.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L										10.0000		U			
2,4-DICHLOROPHENOL	UG/L										10.0000		U			
2,4-DIMETHYLPHENOL	UG/L										10.0000		U			
2,4-DINITROPHENOL	UG/L										50.0000		UJ			
2,4-DINITROTOLUENE	UG/L										10.0000		U			
2,6-DINITROTOLUENE	UG/L										10.0000		U			
2-BENZYL-4-CHLOROPHENOL	UG/L										10.0000		U			
2-CHLORONAPHTHALENE	UG/L										10.0000		U			
2-CHLOROPHENOL	UG/L										10.0000		U			
2-METHYLNAPHTHALENE	UG/L										10.0000		U			
2-METHYLPHENOL	UG/L										10.0000		U			
2-NITROANILINE	UG/L										25.0000		U			
2-NITROPHENOL	UG/L										10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L										10.0000		U			
3-NITROANILINE	UG/L										25.0000		U			
4,6-DINITRO-2-METHYLPHENOL	UG/L										25.0000		UJ			
4-BROMOPHENYL PHENYL ETHER	UG/L										10.0000		U			
4-CHLORO-3-METHYLPHENOL	UG/L										10.0000		U			
4-CHLOROPHENYLPHENYL ETHER	UG/L										10.0000		U			
4-METHYLPHENOL	UG/L										10.0000		U			
4-NITROANILINE	UG/L										25.0000		U			
4-NITROPHENOL	UG/L										25.0000		UJ			
ACENAPHTHENE	UG/L										10.0000		U			
ACENAPHTHYLENE	UG/L										10.0000		U			
ANTHRACENE	UG/L										10.0000		U			
BENZO(A)ANTHRACENE	UG/L										10.0000		U			

SAMPLE NUMBER:	108859			108861			108867			108869			30924U1842-01		
LAB:										IT					
SUFFIX/FILTERFLAG:	-			-			-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
BENZO(A)PYRENE UG/L										10.0000		U			
BENZO(B)FLUORANTHENE UG/L										10.0000		U			
BENZO(G,H,I)PERYLENE UG/L										10.0000		U			
BENZO(K)FLUORANTHENE UG/L										10.0000		U			
BENZOIC ACID UG/L										50.0000		UJ			
BENZYL ALCOHOL UG/L										10.0000		U			
BIS(2-CHLOROETHOXY)METHANE UG/L										10.0000		U			
BIS(2-CHLOROETHYL)ETHER UG/L										10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L										10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L										10.0000		UJ			
BUTYL BENZYL PHTHALATE UG/L										10.0000		U			
CARBAZOLE UG/L										10.0000		U			
CHRYSENE UG/L										10.0000		U			
DI-N-BUTYL PHTHALATE UG/L										10.0000		U			
DI-N-OCTYL PHTHALATE UG/L										10.0000		UJ			
DIBENZO(A,H)ANTHRACENE UG/L										10.0000		U			
DIBENZOFURAN UG/L										10.0000		U			
DIETHYL PHTHALATE UG/L										10.0000		U			
DIMETHYL PHTHALATE UG/L										10.0000		U			
FLUORANTHENE UG/L										10.0000		U			
FLUORENE UG/L										10.0000		U			
HEXACHLOROBENZENE UG/L										10.0000		U			
HEXACHLOROBUTADIENE UG/L										10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L										10.0000		U			
HEXACHLOROETHANE UG/L										10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L										10.0000		U			
ISOPHORONE UG/L										10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L										10.0000		U			
N-NITROSODIPHENYLAMINE UG/L										10.0000		U			
NAPHTHALENE UG/L										10.0000		U			
NITROBENZENE UG/L										10.0000		U			
P-CHLOROANILINE UG/L										10.0000		U			
PENTACHLOROPHENOL UG/L										25.0000		U			
PHENANTHRENE UG/L										10.0000		U			
PHENOL MG/L										10.0000		U			
PYRENE UG/L										10.0000		U			
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L										4.0000		J			
1,1,2,2-TETRACHLOROETHANE UG/L										10.0000		U			
1,1,2-TRICHLOROETHANE UG/L										10.0000		U			
1,1-DICHLOROETHANE UG/L										4.0000		J			
1,1-DICHLOROETHENE UG/L										10.0000		U			
1,2-DICHLOROETHANE UG/L										10.0000		U			

001948

574

SAMPLE NUMBER:	108859	108861	108867	108869	30924U1842-01
LAB:				IT	
SUFFIX/FILTERFLAG:	-	-	-	NONE-UNF	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROETHENE (TOTAL)	UG/L										10.0000		U			
1,2-DICHLOROPROPANE	UG/L										10.0000		U			
2-BUTANONE	UG/L										10.0000		UJ			
2-HEXANONE	UG/L										10.0000		U			
4-METHYL-2-PENTANONE	UG/L										10.0000		UJ			
ACETONE	UG/L										10.0000		U			
BENZENE	UG/L										10.0000		U			
BROMODICHLOROMETHANE	UG/L										10.0000		U			
BROMOFORM	UG/L										10.0000		U			
BROMOMETHANE	UG/L										10.0000		U			
CARBON DISULFIDE	UG/L										10.0000		U			
CARBON TETRACHLORIDE	UG/L										10.0000		U			
CHLOROBENZENE	UG/L										10.0000		U			
CHLOROETHANE	UG/L										10.0000		UJ			
CHLOROFORM	UG/L										10.0000		U			
CHLOROMETHANE	UG/L										10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
DIBROMOCHLOROMETHANE	UG/L										10.0000		U			
ETHYLBENZENE	UG/L										10.0000		U			
METHYLENE CHLORIDE	UG/L										12.0000		UJ			
STYRENE	UG/L										10.0000		U			
TETRACHLOROETHENE	UG/L										10.0000		U			
TOLUENE	UG/L										10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L										10.0000		U			
TRICHLOROETHENE	UG/L										10.0000		U			
VINYL ACETATE	UG/L										10.0000		UJ			
VINYL CHLORIDE	UG/L										10.0000		UJ			
XYLENES, TOTAL	UG/L										10.0000		U			

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	30924U1842-02	098951	098952	098953	099076
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	CORE	IT	IT	WMCO	IT/MWL
WELL OR BORING NUMBER:	1842	1843	1843	1843	1843
DEPTH:	-	-	-	-	-
DATE COLLECTED:	24-SEP-93	24-JUL-92	25-JUL-92	25-JUL-92	18-NOV-92
NORTH COORDINATE:	479927.25	479905.6	479905.6	479905.6	479905.6
EAST COORDINATE:	1381972.92	1382522.39	1382522.39	1382522.39	1382522.39
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
AMMONIA	MG/L				0.1200		-							0.2220		-
CHLORIDE	MG/L				11.4500		-									
FLUORIDE	MG/L				0.4300		-									
NITRATE/NITRITE	MG/L				0.1000		U									
PHENOLS	MG/L				0.0100		U							0.0100		U
PHOSPHORUS	MG/L				0.0900		-							4.0600		-
SULFATE	MG/L				80.1000		-									
SULFIDE	MG/L				0.5000		U									
TOTAL ORGANIC CARBON	MG/L				1.9500		-							2.6400		-
TOTAL ORGANIC HALIDES	MG/L				0.0453		-							0.0543		J
TOTAL ORGANIC NITROGEN	MG/L				0.1000		U							0.7980		-
INORGANICS																
ALUMINUM	MG/L							0.0300		U						
ANTIMONY	MG/L							0.0300		UJ						
ARSENIC	MG/L							0.0020		UJ						
BARIUM	MG/L							0.1140		-						
BERYLLIUM	MG/L							0.0020		U						
CADMIUM	MG/L							0.0050		UJ						
CALCIUM	MG/L							106.0000		-						
CHROMIUM	MG/L							0.0100		U						
COBALT	MG/L							0.0100		U						
COPPER	MG/L							0.0100		U						
IRON	MG/L							0.0200		U						
LEAD	MG/L							0.0020		U						
MAGNESIUM	MG/L							72.2000		-						
MANGANESE	MG/L							0.2910		-						
MERCURY	MG/L							0.0002		U						
MOLYBDENUM	MG/L							0.0200		U						

SAMPLE NUMBER:		30924U1842-02			098951			098952			098953			099076		
LAB:								IT								
SUFFIX/FILTERFLAG:		-			-			NONE-FIL			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
NICKEL	MG/L							0.0200		U						
POTASSIUM	MG/L							2.6500		-						
SELENIUM	MG/L							0.0020		UJ						
SILICON	MG/L							8.1000		-						
SILVER	MG/L							0.0100		UJ						
SODIUM	MG/L							24.9000		-						
VANADIUM	MG/L							0.0100		U						
ZINC	MG/L							0.0114		J						
RADIONUCLIDES																
URANIUM-238	PCI/L	76.60007		-				3.6800	.86	J						
URANIUM, TOTAL	UG/L	188.00003.2		-				10.1000	1.4	J	9.9000		NV			
URANIUM-234	PCI/L	71.70006.5		-				5.3100	1.07	J						
THORIUM-230	PCI/L	0.9000	.4	-				0.4300	.22	J						
RADIUM-226	PCI/L	2.4000	.6	-				1.0000	.16	UJ						
URANIUM-235/236	PCI/L	2.7000	1.7	-				0.7600	.38	J						
THORIUM-232	PCI/L	0.5000	.3	U				0.7100	.13	J						
THORIUM, TOTAL	UG/L							2.0400		UJ						
RADIUM-228	PCI/L	2.6000	1.6	UJ				3.0000		UJ						
THORIUM-228	PCI/L	0.4000	.4	J				1.0400	.36	J						
PLUTONIUM-239/240	PCI/L							0.5000		UJ						
PLUTONIUM-238	PCI/L							0.5000		UJ						
STRONTIUM-90	PCI/L							1.0000		UJ						
TECHNETIUM-99	PCI/L							16.0000		UJ						
RUTHENIUM-106	PCI/L							150.0000		UJ						
CESIUM-137	PCI/L							12.2000		UJ						
GROSS ALPHA	PCI/L							10.7000	7.2	NV						
GROSS BETA	PCI/L							7.0000		UNV						
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L													10.0000		U
1,2-DICHLOROBENZENE	UG/L													10.0000		U
1,3-DICHLOROBENZENE	UG/L													10.0000		U
1,4-DICHLOROBENZENE	UG/L													10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L													50.0000		U
2,4,6-TRICHLOROPHENOL	UG/L													10.0000		U
2,4-DICHLOROPHENOL	UG/L													10.0000		U
2,4-DIMETHYLPHENOL	UG/L													10.0000		U
2,4-DINITROPHENOL	UG/L													50.0000		UJ
2,4-DINITROTOLUENE	UG/L													10.0000		U
2,6-DINITROTOLUENE	UG/L													10.0000		U
2-CHLORONAPHTHALENE	UG/L													10.0000		U
2-CHLOROPHENOL	UG/L													10.0000		U

SAMPLE NUMBER:	30924U1842-02	098951	098952	098953	099076
LAB:					IT/MWL
SUFFIX/FILTERFLAG:	-	-	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
2-METHYLNAPHTHALENE	UG/L													10.0000		U
2-METHYLPHENOL	UG/L													10.0000		U
2-NITROANILINE	UG/L													50.0000		U
2-NITROPHENOL	UG/L													10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L													20.0000		U
3-NITROANILINE	UG/L													50.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L													50.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L													10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L													10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L													10.0000		U
4-METHYLPHENOL	UG/L													10.0000		U
4-NITROANILINE	UG/L													50.0000		U
4-NITROPHENOL	UG/L													50.0000		U
ACENAPHTHENE	UG/L													10.0000		U
ACENAPHTHYLENE	UG/L													10.0000		U
ANTHRACENE	UG/L													10.0000		U
BENZO(A)ANTHRACENE	UG/L													10.0000		U
BENZO(A)PYRENE	UG/L													10.0000		U
BENZO(B)FLUORANTHENE	UG/L													10.0000		U
BENZO(G,H,I)PERYLENE	UG/L													10.0000		U
BENZO(K)FLUORANTHENE	UG/L													10.0000		U
BENZOIC ACID	UG/L													50.0000		U
BENZYL ALCOHOL	UG/L													10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L													10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L													10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L													10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L													10.0000		U
BUTYL BENZYL PHTHALATE	UG/L													10.0000		U
CHRYSENE	UG/L													10.0000		U
CUMENE	UG/L				5.0000		U									
DI-N-BUTYL PHTHALATE	UG/L													10.0000		U
DI-N-OCTYL PHTHALATE	UG/L													10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L													10.0000		U
DIBENZOFURAN	UG/L													10.0000		U
DIETHYL PHTHALATE	UG/L													10.0000		U
DIMETHYL PHTHALATE	UG/L													10.0000		U
FLUORANTHENE	UG/L													10.0000		U
FLUORENE	UG/L													10.0000		U
HEXACHLOROBENZENE	UG/L													10.0000		U
HEXACHLOROBUTADIENE	UG/L													10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L													10.0000		U
HEXACHLOROETHANE	UG/L													10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L													10.0000		U
ISOPHORONE	UG/L													10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L													10.0000		U

SAMPLE NUMBER:		30924U1842-02			098951			098952			098953			099076		
LAB:														IT/MWL		
SUFFIX/FILTERFLAG:		-			-			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
N-NITROSODIPHENYLAMINE	UG/L													10.0000		U
NAPHTHALENE	UG/L													10.0000		U
NITROBENZENE	UG/L													10.0000		U
P-CHLOROANILINE	UG/L													10.0000		U
PENTACHLOROPHENOL	UG/L													50.0000		U
PHENANTHRENE	UG/L													10.0000		U
PHENOL	MG/L													10.0000		U
PYRENE	UG/L													10.0000		U
TRIBUTYL PHOSPHATE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1,2-TRICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1-DICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,1-DICHLOROETHENE	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROETHANE	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				5.0000		U							5.0000		U
1,2-DICHLOROPROPANE	UG/L				5.0000		U							5.0000		U
2-BUTANONE	UG/L				10.0000		U							10.0000		UJ
2-HEXANONE	UG/L				10.0000		U							10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		U							10.0000		UJ
ACETONE	UG/L				10.0000		U							10.0000		UJ
BENZENE	UG/L				5.0000		U							5.0000		U
BROMODICHLOROMETHANE	UG/L				5.0000		U							5.0000		U
BROMOFORM	UG/L				5.0000		U							5.0000		U
BROMOMETHANE	UG/L				10.0000		U							10.0000		U
CARBON DISULFIDE	UG/L				5.0000		U							5.0000		U
CARBON TETRACHLORIDE	UG/L				5.0000		U							5.0000		U
CHLOROBENZENE	UG/L				5.0000		U							5.0000		U
CHLOROETHANE	UG/L				10.0000		U							10.0000		U
CHLOROFORM	UG/L				5.0000		U							5.0000		U
CHLOROMETHANE	UG/L				10.0000		U							10.0000		U
CIS-1,3-DICHLOROPROPENE	UG/L				5.0000		U							5.0000		U
DIBROMOCHLOROMETHANE	UG/L				5.0000		U							5.0000		U
ETHYLBENZENE	UG/L				5.0000		U							5.0000		U
METHYLENE CHLORIDE	UG/L				12.0000		U							5.0000		U
STYRENE	UG/L				5.0000		U							5.0000		U
TETRACHLOROETHENE	UG/L				5.0000		U							5.0000		U
TOLUENE	UG/L				5.0000		U							5.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				5.0000		U							5.0000		U
TRICHLOROETHENE	UG/L				5.0000		U							5.0000		U
VINYL ACETATE	UG/L				10.0000		U							10.0000		UJ
VINYL CHLORIDE	UG/L				10.0000		U							10.0000		U

SAMPLE NUMBER:	30924U1842-02	098951	098952	098953	099076
LAB:		IT			IT/MWL
SUFFIX/FILTERFLAG:	-	NONE-UNF	-	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
XYLENES, TOTAL	UG/L				5.0000		U							5.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	099078	099080	099090	098949	098950
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	FERMCO	IT/MWL	IT	IT	WMCO
WELL OR BORING NUMBER:	1843	1843	1843	1844	1844
DEPTH:	-	-	-	-	-
DATE COLLECTED:	20-NOV-92	19-NOV-92	20-NOV-92	24-JUL-92	24-JUL-92
NORTH COORDINATE:	479905.6	479905.6	479905.6	479900.92	479900.92
EAST COORDINATE:	1382522.39	1382522.39	1382522.39	1382800.94	1382800.94
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-FIL	NONE-UNF	NONE-FIL	NONE-UNF	NONE-FIL

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				552.5000		-									
AMMONIA	MG/L										0.1900		-			
CHLORIDE	MG/L				11.6600		-				9.8300		-			
FLUORIDE	MG/L				0.4000		-				0.4300		-			
NITRATE	MG/L				0.1000		U									
NITRATE/NITRITE	MG/L										0.1000		U			
PHENOLS	MG/L										0.0100		U			
PHOSPHORUS	MG/L										0.0900		-			
SULFATE	MG/L				52.8000		-				59.3100		-			
SULFIDE	MG/L				0.5000		U				0.5000		U			
TOTAL ORGANIC CARBON	MG/L										1.5100		-			
TOTAL ORGANIC HALIDES	MG/L										0.0195		-			
TOTAL ORGANIC NITROGEN	MG/L										0.6000		-			
INORGANICS																
ALUMINUM	MG/L							0.0300		UJ	0.0300		U			
ANTIMONY	MG/L							0.0050		U	0.0300		UJ			
ARSENIC	MG/L							0.0020		U	0.0020		UJ			
BARIUM	MG/L							0.1220		-	0.0997		-			
BERYLLIUM	MG/L							0.0020		U	0.0020		U			
CADMIUM	MG/L							0.0050		U	0.0050		UJ			
CALCIUM	MG/L							110.0000		-	105.0000		-			
CHROMIUM	MG/L							0.0100		U	0.0100		U			
COBALT	MG/L							0.0100		U	0.0100		U			
COPPER	MG/L							0.0100		U	0.0100		U			
CYANIDE	MG/L				0.0020		U									
IRON	MG/L							0.0200		U	0.1020		U			
LEAD	MG/L							0.0020		U	0.0020		U			
MAGNESIUM	MG/L							75.4000		-	60.2000		-			

SAMPLE NUMBER:	099078	099080	099090	098949	098950
LAB:			IT	IT	
SUFFIX/FILTERFLAG:	-	-	NONE-FIL	NONE-FIL	-

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							0.3030		-	0.3290		-			
MERCURY	MG/L							0.0002		U	0.0002		U			
MOLYBDENUM	MG/L							0.0200		U	0.0200		U			
NICKEL	MG/L							0.0200		U	0.0200		U			
POTASSIUM	MG/L							2.6400		-	3.0100		-			
SELENIUM	MG/L							0.0020		UJ	0.0020		U			
SILICON	MG/L							8.2800		-	9.4100		-			
SILVER	MG/L							0.0100		U	0.0100		UJ			
SODIUM	MG/L							30.3000		-	33.5000		-			
THALLIUM	MG/L							0.0020		U						
VANADIUM	MG/L							0.0100		U	0.0100		U			
ZINC	MG/L							0.0061		-	0.0065		J			
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U									
4,4'-DDE	UG/L				0.1000		U									
4,4'-DDT	UG/L				0.1000		U									
ALDRIN	UG/L				0.0500		U									
ALPHA-BHC	UG/L				0.0500		U									
ALPHA-CHLORDANE	UG/L				0.5000		U									
AROCLOR-1016	UG/L				0.5000		U									
AROCLOR-1221	UG/L				0.5000		U									
AROCLOR-1232	UG/L				0.5000		U									
AROCLOR-1242	UG/L				0.5000		U									
AROCLOR-1248	UG/L				0.5000		U									
AROCLOR-1254	UG/L				1.0000		U									
AROCLOR-1260	UG/L				1.0000		U									
BETA-BHC	UG/L				0.0500		U									
DELTA-BHC	UG/L				0.0500		U									
DIELDRIN	UG/L				0.1000		U									
ENDOSULFAN II	UG/L				0.1000		U									
ENDOSULFAN SULFATE	UG/L				0.1000		U									
ENDOSULFAN-I	UG/L				0.0500		U									
ENDRIN	UG/L				0.1000		U									
ENDRIN KETONE	UG/L				0.1000		U									
GAMMA-BHC (LINDANE)	UG/L				0.0500		U									
GAMMA-CHLORDANE	UG/L				0.5000		U									
HEPTACHLOR	UG/L				0.0500		U									
HEPTACHLOR EPOXIDE	UG/L				0.0500		U									
METHOXYCHLOR	UG/L				0.5000		U									
TOXAPHENE	UG/L				1.0000		U									
RADIONUCLIDES																

SAMPLE NUMBER:		099064			099065			099066			099121			099125		
LAB:		IT/MWL														
SUFFIX/FILTERFLAG:		NONE-FIL			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MERCURY	MG/L	0.0002		U												
MOLYBDENUM	MG/L	0.0200		U												
NICKEL	MG/L	0.0200		U												
POTASSIUM	MG/L	2.3600		-												
SELENIUM	MG/L	0.0020		UJ												
SILICON	MG/L	9.6600		-												
SILVER	MG/L	0.0100		U												
SODIUM	MG/L	31.0000		-												
THALLIUM	MG/L	0.0020		U												
VANADIUM	MG/L	0.0100		U												
ZINC	MG/L	0.0072		-												
PESTICIDES																
4,4'-DDD	UG/L	0.1000		U												
4,4'-DDE	UG/L	0.1000		U												
4,4'-DDT	UG/L	0.1000		U												
ALDRIN	UG/L	0.0500		U												
ALPHA-BHC	UG/L	0.0500		U												
ALPHA-CHLORDANE	UG/L	0.5000		U												
AROCLOR-1016	UG/L	0.5000		U												
AROCLOR-1221	UG/L	0.5000		U												
AROCLOR-1232	UG/L	0.5000		U												
AROCLOR-1242	UG/L	0.5000		U												
AROCLOR-1248	UG/L	0.5000		U												
AROCLOR-1254	UG/L	1.0000		U												
AROCLOR-1260	UG/L	1.0000		U												
BETA-BHC	UG/L	0.0500		U												
DELTA-BHC	UG/L	0.0500		U												
DIELDRIN	UG/L	0.1000		U												
ENDOSULFAN II	UG/L	0.1000		U												
ENDOSULFAN SULFATE	UG/L	0.1000		U												
ENDOSULFAN-I	UG/L	0.0500		U												
ENDRIN	UG/L	0.1000		U												
ENDRIN KETONE	UG/L	0.1000		U												
GAMMA-BHC (LINDANE)	UG/L	0.0500		U												
GAMMA-CHLORDANE	UG/L	0.5000		U												
HEPTACHLOR	UG/L	0.0500		U												
HEPTACHLOR EPOXIDE	UG/L	0.0500		U												
METHOXYCHLOR	UG/L	0.5000		U												
TOXAPHENE	UG/L	1.0000		U												
RADIONUCLIDES																
URANIUM-238	PCI/L				1.4100	.42	J									

SAMPLE NUMBER:		099064			099065			099066			099121			099125		
LAB:					IT/RSL											
SUFFIX/FILTERFLAG:		-			NONE-FIL			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				3.4900	.37	J	3.8000		NV	0.2900	.03	J	4.8000	4.8	NV
URANIUM-234	PCI/L				2.5500	.6	J									
RADIUM-226	PCI/L				1.0000		UJ									
URANIUM-235/236	PCI/L				0.2000		UJ									
THORIUM, TOTAL	UG/L										1.0000		UJ	0.8400		UJ
RADIUM-228	PCI/L				3.4000		UJ									
NEPTUNIUM-237	PCI/L				0.5000		UJ									
PLUTONIUM-239/240	PCI/L				0.5000		UJ									
PLUTONIUM-238	PCI/L				0.5000	.1	UJ									
STRONTIUM-90	PCI/L				1.0000		UJ									
TECHNETIUM-99	PCI/L				15.0000		UJ									
RUTHENIUM-106	PCI/L				150.0000		UJ									
CESIUM-137	PCI/L				16.0000		UJ									
GROSS ALPHA	PCI/L				5.5000	3.91	NV									
GROSS BETA	PCI/L				4.0000		UNV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L	10.0000		U												
1,2-DICHLOROBENZENE	UG/L	10.0000		U												
1,3-DICHLOROBENZENE	UG/L	10.0000		U												
1,4-DICHLOROBENZENE	UG/L	10.0000		U												
2,4,5-TRICHLOROPHENOL	UG/L	50.0000		U												
2,4,6-TRICHLOROPHENOL	UG/L	10.0000		U												
2,4-DICHLOROPHENOL	UG/L	10.0000		U												
2,4-DIMETHYLPHENOL	UG/L	10.0000		U												
2,4-DINITROPHENOL	UG/L	50.0000		UJ												
2,4-DINITROTOLUENE	UG/L	10.0000		U												
2,6-DINITROTOLUENE	UG/L	10.0000		U												
2-CHLORONAPHTHALENE	UG/L	10.0000		U												
2-CHLOROPHENOL	UG/L	10.0000		U												
2-METHYLNAPHTHALENE	UG/L	10.0000		U												
2-METHYLPHENOL	UG/L	10.0000		U												
2-NITROANILINE	UG/L	50.0000		U												
2-NITROPHENOL	UG/L	10.0000		U												
3,3'-DICHLOROBENZIDINE	UG/L	20.0000		U												
3-NITROANILINE	UG/L	50.0000		U												
4,6-DINITRO-2-METHYLPHENOL	UG/L	50.0000		UJ												
4-BROMOPHENYL PHENYL ETHER	UG/L	10.0000		U												
4-CHLORO-3-METHYLPHENOL	UG/L	10.0000		U												
4-CHLOROPHENYLPHENYL ETHER	UG/L	10.0000		U												
4-METHYLPHENOL	UG/L	10.0000		U												
4-NITROANILINE	UG/L	50.0000		U												
4-NITROPHENOL	UG/L	50.0000		U												
ACENAPHTHENE	UG/L	10.0000		U												

SAMPLE NUMBER:		099064		099065			099066			099121			099125		
LAB:		IT/MWL													
SUFFIX/FILTERFLAG:		NONE-UNF		-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
ACENAPHTHYLENE	UG/L	10.0000		U												
ANTHRACENE	UG/L	10.0000		U												
BENZO(A)ANTHRACENE	UG/L	10.0000		U												
BENZO(A)PYRENE	UG/L	10.0000		U												
BENZO(B)FLUORANTHENE	UG/L	10.0000		U												
BENZO(G,H,I)PERYLENE	UG/L	10.0000		U												
BENZO(K)FLUORANTHENE	UG/L	10.0000		U												
BENZOIC ACID	UG/L	50.0000		U												
BENZYL ALCOHOL	UG/L	10.0000		U												
BIS(2-CHLOROETHOXY)METHANE	UG/L	10.0000		U												
BIS(2-CHLOROETHYL)ETHER	UG/L	10.0000		U												
BIS(2-CHLOROISOPROPYL) ETHER	UG/L	10.0000		U												
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10.0000		U												
BUTYL BENZYL PHTHALATE	UG/L	10.0000		U												
CHRYSENE	UG/L	10.0000		U												
DI-N-BUTYL PHTHALATE	UG/L	10.0000		U												
DI-N-OCTYL PHTHALATE	UG/L	10.0000		U												
DIBENZO(A,H)ANTHRACENE	UG/L	10.0000		U												
DIBENZOFURAN	UG/L	10.0000		U												
DIETHYL PHTHALATE	UG/L	10.0000		U												
DIMETHYL PHTHALATE	UG/L	10.0000		U												
FLUORANTHENE	UG/L	10.0000		U												
FLUORENE	UG/L	10.0000		U												
HEXACHLOROBENZENE	UG/L	10.0000		U												
HEXACHLOROBUTADIENE	UG/L	10.0000		U												
HEXACHLOROCYCLOPENTADIENE	UG/L	10.0000		U												
HEXACHLOROETHANE	UG/L	10.0000		U												
INDENO(1,2,3-CD)PYRENE	UG/L	10.0000		U												
ISOPHORONE	UG/L	10.0000		U												
N-NITROSO-DI-N-PROPYLAMINE	UG/L	10.0000		U												
N-NITROSODIPHENYLAMINE	UG/L	10.0000		U												
NAPHTHALENE	UG/L	10.0000		U												
NITROBENZENE	UG/L	10.0000		U												
P-CHLOROANILINE	UG/L	10.0000		U												
PENTACHLOROPHENOL	UG/L	50.0000		U												
PHENANTHRENE	UG/L	10.0000		U												
PHENOL	MG/L	10.0000		U												
PYRENE	UG/L	10.0000		U												
TRIBUTYL PHOSPHATE	UG/L	10.0000		U												
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L	5.0000		U												
1,1,2,2-TETRACHLOROETHANE	UG/L	5.0000		U												
1,1,2-TRICHLOROETHANE	UG/L	5.0000		U												

001955

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

DRAFT
Page 1490

SAMPLE NUMBER:	099064			099065			099066			099121			099125		
LAB:	IT/MWL														
SUFFIX/FILTERFLAG:	NONE-UNF			-			-			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHANE	UG/L	5.0000		U												
1,1-DICHLOROETHENE	UG/L	5.0000		U												
1,2-DICHLOROETHANE	UG/L	5.0000		U												
1,2-DICHLOROETHENE (TOTAL)	UG/L	5.0000		U												
1,2-DICHLOROPROPANE	UG/L	5.0000		U												
2-BUTANONE	UG/L	10.0000		UJ												
2-HEXANONE	UG/L	10.0000		UJ												
4-METHYL-2-PENTANONE	UG/L	10.0000		UJ												
ACETONE	UG/L	10.0000		UJ												
BENZENE	UG/L	5.0000		U												
BROMODICHLOROMETHANE	UG/L	5.0000		U												
BROMOFORM	UG/L	5.0000		U												
BROMOMETHANE	UG/L	10.0000		U												
CARBON DISULFIDE	UG/L	5.0000		U												
CARBON TETRACHLORIDE	UG/L	5.0000		U												
CHLOROBENZENE	UG/L	5.0000		U												
CHLOROETHANE	UG/L	10.0000		U												
CHLOROFORM	UG/L	5.0000		U												
CHLOROMETHANE	UG/L	10.0000		U												
CIS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
DIBROMOCHLOROMETHANE	UG/L	5.0000		U												
ETHYLBENZENE	UG/L	5.0000		U												
METHYLENE CHLORIDE	UG/L	5.0000		U												
STYRENE	UG/L	5.0000		U												
TETRACHLOROETHENE	UG/L	5.0000		U												
TOLUENE	UG/L	5.0000		U												
TRANS-1,3-DICHLOROPROPENE	UG/L	5.0000		U												
TRICHLOROETHENE	UG/L	5.0000		U												
VINYL ACETATE	UG/L	10.0000		UJ												
VINYL CHLORIDE	UG/L	10.0000		U												
XYLENES, TOTAL	UG/L	5.0000		U												

001960

B7044

SAMPLE NUMBER:		098804			102863			102865			108903			120496		
LAB:								DATACHEM			IT					
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
ORGANOPHOSPHORUS																
DIAZINON	UG/L							0.2000		U	1.0000		U			
DISULFOTON	UG/L							0.2000		U	1.0000		U			
ETHION	UG/L							0.5000		U	1.0000		U			
MALATHION	UG/L							0.2000		U	1.0000		U			
METHYL PARATHION	UG/L							0.2000		U	1.0000		U			
PARATHION	UG/L							0.2000		U	1.0000		U			
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U				0.1000		U			
4,4'-DDE	UG/L				0.1000		U				0.1000		U			
4,4'-DDT	UG/L				0.1000		U				0.1000		U			
ALDRIN	UG/L				0.0500		U				0.0500		U			
ALPHA-BHC	UG/L				0.0500		U				0.0500		U			
ALPHA-CHLORDANE	UG/L				0.5000		U				0.5000		U			
AROCLOR-1016	UG/L				0.5000		U				0.5000		U			
AROCLOR-1221	UG/L				0.5000		U				0.5000		U			
AROCLOR-1232	UG/L				0.5000		U				0.5000		U			
AROCLOR-1242	UG/L				0.5000		U				0.5000		U			
AROCLOR-1248	UG/L				0.5000		U				0.5000		U			
AROCLOR-1254	UG/L				1.0000		U				1.0000		U			
AROCLOR-1260	UG/L				1.0000		U				1.0000		U			
BETA-BHC	UG/L				0.0500		U				0.0500		U			
DELTA-BHC	UG/L				0.0500		U				0.0500		U			
DIELDRIN	UG/L				0.1000		U				0.1000		U			
ENDOSULFAN II	UG/L				0.1000		U				0.1000		U			
ENDOSULFAN SULFATE	UG/L				0.1000		U				0.1000		U			
ENDOSULFAN-I	UG/L				0.0500		U				0.0500		U			
ENDRIN	UG/L				0.1000		U				0.1000		U			
ENDRIN KETONE	UG/L				0.1000		U				0.1000		U			
GAMMA-BHC (LINDANE)	UG/L				0.0500		U				0.0500		U			
GAMMA-CHLORDANE	UG/L				0.5000		U				0.5000		U			
HEPTACHLOR	UG/L				0.0500		U				0.0500		U			
HEPTACHLOR EPOXIDE	UG/L				0.0500		U				0.0500		U			
METHOXYCHLOR	UG/L				0.5000		U				0.5000		U			
TOXAPHENE	UG/L				1.0000		U				1.0000		U			
RADIONUCLIDES																
URANIUM-238	PCI/L				1.0000		UJ				4.7700	1.08	NV			
URANIUM, TOTAL	UG/L	28.90004		J	4.0800	.61	-				14.4000	2.1	NV			
URANIUM-234	PCI/L				1.2000	.32	J				6.6400	1.37	NV			
THORIUM-230	PCI/L	0.2000		UJ	1.0000		UJ				0.2500	.148	NV			
RADIUM-226	PCI/L				1.6100	.58	J				1.0000		UNV			
URANIUM-235/236	PCI/L				1.0000		UJ				1.0000		UNV			

06/21/94

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	098804			102863			102865			108903			120496		
LAB:				IT						IT/RSL					
SUFFIX/FILTERFLAG:	-			NONE-FIL			-			NONE-FIL			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES															
THORIUM-232 PCI/L	0.2000	.1087	UJ	1.0000		UJ				0.2000	.0593	UJ			
THORIUM, TOTAL UG/L	1.4900	.99	J	2.2000		UJ				0.5000		UNV			
RADIUM-228 PCI/L				3.0000		UJ				3.0000		UNV			
THORIUM-228 PCI/L	13.0000		UJ	1.0000		UJ				0.2000	.0618	UNV			
NEPTUNIUM-237 PCI/L				1.0000		U				0.5000	.187	UNV			
PLUTONIUM-239/240 PCI/L				1.0000		UJ				1.0000	0	R			
PLUTONIUM-238 PCI/L				1.0000		UJ				1.0000	0	R			
STRONTIUM-90 PCI/L				5.0000		U				1.0000	.486	UNV			
TECHNETIUM-99 PCI/L				52.9000	12.7	J				15.0000	7.91	UNV			
RUTHENIUM-106 PCI/L				150.0000		U				150.0000		UNV			
CESIUM-137 PCI/L				20.0000		U				20.0000		UNV			
GROSS ALPHA PCI/L				6.8000		UNV				7.9000		UNV			
GROSS BETA PCI/L				4.0000		UNV				12.2000	3.9	NV			
SEMIVOLATILES															
1,2,4-TRICHLOROBENZENE UG/L				10.0000		U				10.0000		U			
1,2-DICHLOROBENZENE UG/L				10.0000		U				10.0000		U			
1,3-DICHLOROBENZENE UG/L				10.0000		U				10.0000		U			
1,4-DICHLOROBENZENE UG/L				10.0000		U				10.0000		U			
2,4,5-TRICHLOROPHENOL UG/L				50.0000		U				50.0000		U			
2,4,6-TRICHLOROPHENOL UG/L				10.0000		U				10.0000		U			
2,4-DICHLOROPHENOL UG/L				10.0000		U				10.0000		U			
2,4-DIMETHYLPHENOL UG/L				10.0000		U				10.0000		U			
2,4-DINITROPHENOL UG/L				50.0000		UJ				50.0000		UJ			
2,4-DINITROTOLUENE UG/L				10.0000		U				10.0000		U			
2,6-DINITROTOLUENE UG/L				10.0000		U				10.0000		U			
2-CHLORONAPHTHALENE UG/L				10.0000		U				10.0000		U			
2-CHLOROPHENOL UG/L				10.0000		U				10.0000		U			
2-METHYLNAPHTHALENE UG/L				10.0000		U				10.0000		U			
2-METHYLPHENOL UG/L				10.0000		U				10.0000		U			
2-NITROANILINE UG/L				50.0000		U				50.0000		U			
2-NITROPHENOL UG/L				10.0000		U				10.0000		U			
3,3'-DICHLOROBENZIDINE UG/L				20.0000		U				20.0000		U			
3-NITROANILINE UG/L				50.0000		U				50.0000		U			
4,6-DINITRO-2-METHYLPHENOL UG/L				50.0000		UJ				50.0000		U			
4-BROMOPHENYL PHENYL ETHER UG/L				10.0000		U				10.0000		U			
4-CHLORO-3-METHYLPHENOL UG/L				10.0000		U				10.0000		U			
4-CHLOROPHENYLPHENYL ETHER UG/L				10.0000		U				10.0000		U			
4-METHYLPHENOL UG/L				10.0000		U				10.0000		U			
4-NITROANILINE UG/L				50.0000		U				50.0000		U			
4-NITROPHENOL UG/L				50.0000		U				50.0000		U			
ACENAPHTHENE UG/L				10.0000		U				10.0000		U			
ACENAPHTHYLENE UG/L				10.0000		U				10.0000		U			
ANTHRACENE UG/L				10.0000		U				10.0000		U			

001962

5704

SAMPLE NUMBER:	098804			102863		102865			108903			120496		
LAB:				IT					IT/MWL					
SUFFIX/FILTERFLAG:	-			NONE-UNF		-			NONE-UNF			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	VAL SIGMA QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES														
BENZO(A)ANTHRACENE UG/L				10.0000	U				10.0000		U			
BENZO(A)PYRENE UG/L				10.0000	U				10.0000		U			
BENZO(B)FLUORANTHENE UG/L				10.0000	U				10.0000		U			
BENZO(G,H,I)PERYLENE UG/L				10.0000	UJ				10.0000		U			
BENZO(K)FLUORANTHENE UG/L				10.0000	U				10.0000		U			
BENZOIC ACID UG/L				50.0000	U				50.0000		U			
BENZYL ALCOHOL UG/L				10.0000	U				10.0000		U			
BIS(2-CHLOROETHOXY)METHANE UG/L				10.0000	U				10.0000		U			
BIS(2-CHLOROETHYL)ETHER UG/L				10.0000	U				10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L				10.0000	U				10.0000		U			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L				10.0000	U				10.0000		U			
BUTYL BENZYL PHTHALATE UG/L				10.0000	U				10.0000		U			
CARBAZOLE UG/L				10.0000	U									
CHRYSENE UG/L				10.0000	U				10.0000		U			
DI-N-BUTYL PHTHALATE UG/L				10.0000	U				10.0000		U			
DI-N-OCTYL PHTHALATE UG/L				10.0000	U				10.0000		U			
DIBENZO(A,H)ANTHRACENE UG/L				10.0000	UJ				10.0000		U			
DIBENZOFURAN UG/L				10.0000	U				10.0000		U			
DIETHYL PHTHALATE UG/L				10.0000	U				10.0000		U			
DIMETHYL PHTHALATE UG/L				10.0000	U				10.0000		U			
FLUORANTHENE UG/L				10.0000	U				10.0000		U			
FLUORENE UG/L				10.0000	U				10.0000		U			
HEXACHLOROBENZENE UG/L				10.0000	U				10.0000		U			
HEXACHLOROBUTADIENE UG/L				10.0000	U				10.0000		U			
HEXACHLOROCYCLOPENTADIENE UG/L				10.0000	U				10.0000		U			
HEXACHLOROETHANE UG/L				10.0000	U				10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L				10.0000	UJ				10.0000		U			
ISOPHORONE UG/L				10.0000	U				10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L				10.0000	U				10.0000		U			
N-NITROSODIPHENYLAMINE UG/L				10.0000	U				10.0000		U			
NAPHTHALENE UG/L				10.0000	U				10.0000		U			
NITROBENZENE UG/L				10.0000	U				10.0000		U			
P-CHLOROANILINE UG/L				10.0000	U				10.0000		U			
PENTACHLOROPHENOL UG/L				50.0000	U				50.0000		U			
PHENANTHRENE UG/L				10.0000	U				10.0000		U			
PHENOL MG/L				10.0000	U				10.0000		U			
PYRENE UG/L				10.0000	U				10.0000		U			
TRIBUTYL PHOSPHATE UG/L				10.0000	U				10.0000		U			
VOLATILES														
1,1,1-TRICHLOROETHANE UG/L				10.0000	U				28.0000		-	27.0000		-
1,1,2,2-TETRACHLOROETHANE UG/L				10.0000	U				10.0000		U	10.0000		U
1,1,2-TRICHLOROETHANE UG/L				10.0000	U				10.0000		U	10.0000		U
1,1-DICHLOROETHANE UG/L				10.0000	U				37.0000		-	38.0000		-

001963

SAMPLE NUMBER:		098804			102863			102865			108903			120496		
LAB:					IT						IT/MWL			IT		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,1-DICHLOROETHENE	UG/L				10.0000		U				2.0000		J	3.0000		J
1,2-DICHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U				11.0000		-	11.0000		-
1,2-DICHLOROPROPANE	UG/L				10.0000		U				10.0000		U	10.0000		U
2-BUTANONE	UG/L				10.0000		U				10.0000		UJ	10.0000		UJ
2-HEXANONE	UG/L				10.0000		UJ				10.0000		UJ	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ				10.0000		UJ	10.0000		UJ
ACETONE	UG/L				10.0000		U				10.0000		UJ	10.0000		UJ
BENZENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BROMODICHLOROMETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
BROMOFORM	UG/L				10.0000		U				10.0000		U	10.0000		U
BROMOMETHANE	UG/L				10.0000		UJ				10.0000		U	10.0000		UJ
CARBON DISULFIDE	UG/L				10.0000		U				10.0000		U	10.0000		U
CARBON TETRACHLORIDE	UG/L				10.0000		U				10.0000		U	10.0000		U
CHLOROBENZENE	UG/L				10.0000		U				10.0000		U	1.0000		J
CHLOROETHANE	UG/L				10.0000		U				10.0000		UJ	10.0000		U
CHLOROFORM	UG/L				10.0000		U				10.0000		U	10.0000		U
CHLOROMETHANE	UG/L				10.0000		U				10.0000		UJ	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U	10.0000		U
DIBROMOCHLOROMETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
ETHYLBENZENE	UG/L				10.0000		U				10.0000		U	10.0000		U
METHYLENE CHLORIDE	UG/L				10.0000		U				10.0000		U	10.0000		U
STYRENE	UG/L				10.0000		U				10.0000		U	10.0000		U
TETRACHLOROETHENE	UG/L				10.0000		U				4.0000		J	2.0000		J
TOLUENE	UG/L				10.0000		U				10.0000		U	1.0000		J
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U	10.0000		U
TRICHLOROETHENE	UG/L				10.0000		U				10.0000		U	1.0000		J
VINYL ACETATE	UG/L				10.0000		UJ				10.0000		UJ	10.0000		UJ
VINYL CHLORIDE	UG/L				10.0000		U				10.0000		UJ	10.0000		UJ
XYLENES, TOTAL	UG/L				10.0000		U				10.0000		U	10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	120497	120497F	108902	108907	108909
TASK:	50.03.07	50.03.07	50.03.07	50.03.07	50.03.07
LAB:	IT	IT	IT/MWL	IT/MWL	IT/MWL
WELL OR BORING NUMBER:	1887	1887	1890	1890	1890
DEPTH:	-	-	-	-	-
DATE COLLECTED:	30-JUL-93	30-JUL-93	03-FEB-93	04-FEB-93	23-APR-93
NORTH COORDINATE:	482410.68	482410.68	482531.73	482531.73	482531.73
EAST COORDINATE:	1380855.73	1380855.73	1380778.07	1380778.07	1380778.07
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-FIL	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L													1.4900		-
ANTIMONY	MG/L													0.0050		UJ
ARSENIC	MG/L													0.0020		U
BARIUM	MG/L													0.0680		-
BERYLLIUM	MG/L													0.0020		U
CADMIUM	MG/L													0.0050		U
CALCIUM	MG/L													119.0000		J
CHROMIUM	MG/L													0.0100		U
COBALT	MG/L													0.0100		U
COPPER	MG/L													0.0100		U
CYANIDE	MG/L										0.0022		J	0.0020		U
IRON	MG/L													1.6100		-
LEAD	MG/L													0.0020		U
MAGNESIUM	MG/L													23.7000		J
MANGANESE	MG/L													0.0772		-
MERCURY	MG/L													0.0002		U
MOLYBDENUM	MG/L													0.0200		U
NICKEL	MG/L													0.0200		U
POTASSIUM	MG/L													2.0800		-
SELENIUM	MG/L													0.0024		J
SILICON	MG/L													7.4000		-
SILVER	MG/L													0.0100		U
SODIUM	MG/L													15.2000		J
THALLIUM	MG/L													0.0020		UJ
VANADIUM	MG/L													0.0100		U
ZINC	MG/L													0.0360		U
RADIONUCLIDES																
URANIUM-238	PCI/L	3.2800	.72	-	2.9100	.63	-							8.9900	2	NV

CC0365

SAMPLE NUMBER:	120497			120497F			108902			108907			108909		
LAB:							IT/MWL						IT/MWL		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
VOLATILES															
ETHYLBENZENE UG/L							10.0000		U				10.0000		U
METHYLENE CHLORIDE UG/L							10.0000		U				19.0000		J
STYRENE UG/L							10.0000		U				10.0000		U
TETRACHLOROETHENE UG/L							10.0000		U				10.0000		U
TOLUENE UG/L							10.0000		U				10.0000		U
TRANS-1,3-DICHLOROPROPENE UG/L							10.0000		U				10.0000		U
TRICHLOROETHENE UG/L							10.0000		U				10.0000		U
VINYL ACETATE UG/L							10.0000		U				10.0000		U
VINYL CHLORIDE UG/L							10.0000		UJ				10.0000		U
XYLENES, TOTAL UG/L							10.0000		U				10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	108911	108913	108914	109028	109030
TASK:	50.03.07	50.03.07	50.03.23	40.03.05	40.03.05
LAB:	FERMCO	FERMCO	DATACHEM	IT/RSL	WMCO
WELL OR BORING NUMBER:	1890	1890	1890	1891	1891
DEPTH:	-	-	-	-	-
DATE COLLECTED:	23-APR-93	08-JUN-93	08-JUN-93	23-APR-93	23-APR-93
NORTH COORDINATE:	482531.73	482531.73	482531.73	480361.12	480361.12
EAST COORDINATE:	1380778.07	1380778.07	1380778.07	1378334.7	1378334.7
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM-238	PCI/L										112.0000	24	J			
URANIUM, TOTAL	UG/L	23.0000		NV							333.7600	24	NV	330.0000		NV
RADIUM-226	PCI/L										1.0000	.18	UJ			
GROSS ALPHA	PCI/L				270.0000		UNV									
GROSS BETA	PCI/L				780.0000		UNV									
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U						
1,2-DICHLOROBENZENE	UG/L							10.0000		U						
1,3-DICHLOROBENZENE	UG/L							10.0000		U						
1,4-DICHLOROBENZENE	UG/L							10.0000		U						
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U						
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U						
2,4-DICHLOROPHENOL	UG/L							10.0000		U						
2,4-DIMETHYLPHENOL	UG/L							10.0000		U						
2,4-DINITROPHENOL	UG/L							25.0000		U						
2,4-DINITROTOLUENE	UG/L							10.0000		U						
2,6-DINITROTOLUENE	UG/L							10.0000		U						
2-CHLORONAPHTHALENE	UG/L							10.0000		U						
2-CHLOROPHENOL	UG/L							10.0000		U						
2-METHYLNAPHTHALENE	UG/L							10.0000		U						
2-METHYLPHENOL	UG/L							10.0000		U						
2-NITROANILINE	UG/L							25.0000		U						
2-NITROPHENOL	UG/L							10.0000		U						
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U						
3-NITROANILINE	UG/L							25.0000		U						
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		U						
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U						
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U						

SAMPLE NUMBER:	108911			108913			108914			109028			109030		
LAB:							DATACHEM								
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			-		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4-CHLOROPHENYLPHENYL ETHER UG/L							10.0000		U						
4-METHYLPHENOL UG/L							10.0000		U						
4-NITROANILINE UG/L							25.0000		UR						
4-NITROPHENOL UG/L							25.0000		U						
ACENAPHTHENE UG/L							10.0000		U						
ACENAPHTHYLENE UG/L							10.0000		U						
ANTHRACENE UG/L							10.0000		U						
BENZO(A)ANTHRACENE UG/L							10.0000		U						
BENZO(A)PYRENE UG/L							10.0000		U						
BENZO(B)FLUORANTHENE UG/L							10.0000		U						
BENZO(G,H,I)PERYLENE UG/L							10.0000		U						
BENZO(K)FLUORANTHENE UG/L							10.0000		U						
BIS(2-CHLOROETHOXY)METHANE UG/L							10.0000		U						
BIS(2-CHLOROETHYL)ETHER UG/L							10.0000		U						
BIS(2-CHLOROISOPROPYL) ETHER UG/L							10.0000		U						
BIS(2-ETHYLHEXYL)PHTHALATE UG/L							0.4000		J						
BUTYL BENZYL PHTHALATE UG/L							10.0000		U						
CARBAZOLE UG/L							10.0000		U						
CHRYSENE UG/L							10.0000		U						
DI-N-BUTYL PHTHALATE UG/L							0.4000		J						
DI-N-OCTYL PHTHALATE UG/L							10.0000		U						
DIBENZO(A,H)ANTHRACENE UG/L							10.0000		U						
DIBENZOFURAN UG/L							10.0000		U						
DIETHYL PHTHALATE UG/L							0.6000		J						
DIMETHYL PHTHALATE UG/L							10.0000		U						
FLUORANTHENE UG/L							10.0000		U						
FLUORENE UG/L							10.0000		U						
HEXACHLOROBENZENE UG/L							10.0000		U						
HEXACHLOROBUTADIENE UG/L							10.0000		U						
HEXACHLOROCYCLOPENTADIENE UG/L							10.0000		U						
HEXACHLOROETHANE UG/L							10.0000		U						
INDENO(1,2,3-CD)PYRENE UG/L							10.0000		U						
ISOPHORONE UG/L							10.0000		UJ						
N-NITROSO-DI-N-PROPYLAMINE UG/L							10.0000		U						
N-NITROSODIPHENYLAMINE UG/L							10.0000		U						
NAPHTHALENE UG/L							10.0000		U						
NITROBENZENE UG/L							10.0000		U						
P-CHLOROANILINE UG/L							10.0000		U						
PENTACHLOROPHENOL UG/L							25.0000		U						
PHENANTHRENE UG/L							10.0000		U						
PHENOL MG/L							10.0000		U						
PYRENE UG/L							10.0000		UJ						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		109031			108952			109032			120320			120323		
TASK:		40.03.05			40.03.05			40.03.05			40.03.05			40.03.05		
LAB:		IT/RSL			IT/MWL			IT/MWL			IT			FERMCO		
WELL OR BORING NUMBER:		1891			1892			1892			1892			1892		
DEPTH:		-			10-14			-			-			-		
DATE COLLECTED:		23-APR-93			24-MAR-93			23-APR-93			08-JUN-93			08-JUN-93		
NORTH COORDINATE:		480361.12			480445.99			480445.99			480445.99			480445.99		
EAST COORDINATE:		1378334.7			1378339.25			1378339.25			1378339.25			1378339.25		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-FIL		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				480.0000		-	347.0000		NV						
AMMONIA	MG/L				0.1000		U	0.2300		NV						
CHLORIDE	MG/L				52.1100		-	97.0100		NV						
FLUORIDE	MG/L				0.2100		-	0.2800		NV						
NITRATE	MG/L				0.7700		-	1.6900		NV						
PHENOLS	MG/L				0.0100		U	0.0100		UNV						
PHOSPHORUS	MG/L				8.6800		-	7.1300		NV						
SULFATE	MG/L				141.1700		-	480.5000		NV						
SULFIDE	MG/L				2.9500		-	0.5000		UNV						
TOTAL KJELDAHL NITROGEN	MG/L				0.3000		-	1.5700		NV						
TOTAL ORGANIC CARBON	MG/L				2.9600		-	2.0800		NV						
TOTAL ORGANIC HALIDES	MG/L				54.3000		-	0.0100		UNV						
TOTAL ORGANIC NITROGEN	MG/L				0.3000		-	1.3400		NV						
INORGANICS																
ALUMINUM	MG/L				1.0100		-	0.3990		NV						
ANTIMONY	MG/L				0.0064		UJ	0.0050		UNV						
ARSENIC	MG/L				0.0020		U	0.0029		NV						
BARIUM	MG/L				0.0455		-	0.0537		NV						
BERYLLIUM	MG/L				0.0020		U	0.0020		UNV						
CADMIUM	MG/L				0.0050		U	0.0050		UNV						
CALCIUM	MG/L				145.0000		-	176.0000		NV						
CHROMIUM	MG/L				0.0100		U	0.0100		UNV						
COBALT	MG/L				0.0100		U	0.0100		UNV						
COPPER	MG/L				0.0146		-	0.0100		UNV						
CYANIDE	MG/L				0.0036		U	0.0020		UNV						
IRON	MG/L				2.3200		-	0.8590		NV						
LEAD	MG/L				0.0020		UJ	0.0020		UNV						
MAGNESIUM	MG/L				43.0000		-	62.7000		NV						

SAMPLE NUMBER:		109031			108952			109032			120320			120323		
LAB:					IT/MWL			IT/MWL								
SUFFIX/FILTERFLAG:		-			NONE-UNF			NONE-UNF			-			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L				0.5840		-	0.1160		NV						
MERCURY	MG/L				0.0002		U	0.0002		UNV						
MOLYBDENUM	MG/L				0.0200		U	0.0200		UNV						
NICKEL	MG/L				0.0200		U	0.0200		UNV						
POTASSIUM	MG/L				2.5000		-	3.5600		NV						
SELENIUM	MG/L				0.0119		-	0.0327		NV						
SILICON	MG/L				7.9900		-	9.6500		NV						
SILVER	MG/L				0.0100		U	0.0100		UNV						
SODIUM	MG/L				68.5000		-	156.0000		NV						
THALLIUM	MG/L				0.0020		U	0.0020		UNV						
VANADIUM	MG/L				0.0100		U	0.0100		UNV						
ZINC	MG/L				0.0221		-	0.0101		NV						
RADIONUCLIDES																
URANIUM-238	PCI/L				126.0000	28	J	434.0000	101	J						
URANIUM, TOTAL	UG/L	318.00003		J	321.0000	42	-	1250.0000	169	J				810.0000		NV
URANIUM-234	PCI/L				118.0000	26	J	427.0000	99	J						
THORIUM-230	PCI/L				1.0000		U	0.3700	.18	J						
RADIUM-226	PCI/L				1.0000		UJ	35.8000	4.1	J						
LEAD-210	PCI/L										3.0000	1.159	UNV			
URANIUM-235/236	PCI/L				6.3300	1.66	J	21.0000	5.5	J						
THORIUM-232	PCI/L				0.2000	.06344	UJ	0.2000		UJ						
THORIUM, TOTAL	UG/L				1.0000		U	0.5000	.17	UJ						
RADIUM-228	PCI/L				3.0000		U	23.7000	3	J						
THORIUM-228	PCI/L				1.0000		U	0.2000		UJ						
NEPTUNIUM-237	PCI/L				0.5000	.1682	U	0.5000		UJ						
PLUTONIUM-239/240	PCI/L				0.5000	.1011	UJ	0.5000		UJ						
PLUTONIUM-238	PCI/L				0.5000	.2048	U	0.5000		UJ						
STRONTIUM-90	PCI/L				1.0000	.473	UJ	1.0000		UJ						
TECHNETIUM-99	PCI/L				15.0000	6.19	UJ	15.0000		UJ						
RUTHENIUM-106	PCI/L				150.0000		UJ	150.0000		UJ						
CESIUM-137	PCI/L				13.7980		UJ	18.5000		UJ						
GROSS ALPHA	PCI/L				350.0000	49	NV	546.0000	74	NV						
GROSS BETA	PCI/L				85.2000	12	NV	135.0000	18	NV						
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U	10.0000		UNV						
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U	10.0000		UNV						
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U	10.0000		UNV						
1,1-DICHLOROETHANE	UG/L				10.0000		U	10.0000		UNV						
1,1-DICHLOROETHENE	UG/L				10.0000		U	10.0000		UNV						
1,2-DICHLOROETHANE	UG/L				10.0000		U	10.0000		UNV						
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U	10.0000		UNV						

001970

5704

SAMPLE NUMBER:	109031	108952	109032	120320	120323
LAB:		IT/MWL	IT/MWL		
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	-	-

		109031 RESULT	SIGMA	VAL QUAL(1)	108952 RESULT	SIGMA	VAL QUAL(1)	109032 RESULT	SIGMA	VAL QUAL(1)	120320 RESULT	SIGMA	VAL QUAL(1)	120323 RESULT	SIGMA	VAL QUAL(1)
VOLATILES																
1,2-DICHLOROPROPANE	UG/L				10.0000		U	10.0000		UNV						
2-BUTANONE	UG/L				10.0000		U	10.0000		UNV						
2-HEXANONE	UG/L				10.0000		U	10.0000		UNV						
4-METHYL-2-PENTANONE	UG/L				10.0000		U	10.0000		UNV						
ACETONE	UG/L				10.0000		U	4.0000		NV						
BENZENE	UG/L				10.0000		U	10.0000		UNV						
BROMODICHLOROMETHANE	UG/L				10.0000		U	10.0000		UNV						
BROMOFORM	UG/L				10.0000		U	10.0000		UNV						
BROMOMETHANE	UG/L				10.0000		U	10.0000		UNV						
CARBON DISULFIDE	UG/L				10.0000		U	10.0000		UNV						
CARBON TETRACHLORIDE	UG/L				10.0000		U	10.0000		UNV						
CHLOROBENZENE	UG/L				10.0000		U	10.0000		UNV						
CHLOROETHANE	UG/L				10.0000		U	10.0000		UNV						
CHLOROFORM	UG/L				10.0000		U	10.0000		UNV						
CHLOROMETHANE	UG/L				10.0000		UJ	10.0000		UNV						
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		UNV						
DIBROMOCHLOROMETHANE	UG/L				10.0000		U	10.0000		UNV						
ETHYLBENZENE	UG/L				10.0000		U	10.0000		UNV						
METHYLENE CHLORIDE	UG/L				10.0000		U	2.0000		NV						
STYRENE	UG/L				10.0000		U	10.0000		UNV						
TETRACHLOROETHENE	UG/L				10.0000		U	10.0000		UNV						
TOLUENE	UG/L				10.0000		U	1.0000		NV						
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U	10.0000		UNV						
TRICHLOROETHENE	UG/L				10.0000		U	10.0000		UNV						
VINYL ACETATE	UG/L				10.0000		U	10.0000		UNV						
VINYL CHLORIDE	UG/L				10.0000		U	10.0000		UNV						
XYLENES, TOTAL	UG/L				10.0000		U	10.0000		UNV						

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		109035			109019			109021			109026			109025		
TASK:		40.03.05			40.03.05			40.03.05			40.03.05			40.03.05		
LAB:		IT			IT/RSL			IT/MWL			IT/MWL			IT		
WELL OR BORING NUMBER:		1893			1894			1894			1894			1895		
DEPTH:		-			0-6			0-6			0-6			0-6		
DATE COLLECTED:		30-APR-93			16-APR-93			17-APR-93			19-APR-93			18-APR-93		
NORTH COORDINATE:		480560.9			480367.11			480367.11			480367.11			480442.8		
EAST COORDINATE:		1378345.18			1378186.62			1378186.62			1378186.62			1378236.88		
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL		
QC OF:																
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
ALUMINUM	MG/L										0.2190		NV			
ANTIMONY	MG/L										0.0050		UNV			
ARSENIC	MG/L										0.0020		UNV			
BARIUM	MG/L										0.0147		NV			
BERYLLIUM	MG/L										0.0020		UNV			
CADMIUM	MG/L										0.0050		UNV			
CALCIUM	MG/L										96.2000		NV			
CHROMIUM	MG/L										0.0100		UNV			
COBALT	MG/L										0.0100		UNV			
COPPER	MG/L										0.0100		UNV			
CYANIDE	MG/L							0.0020		UNV						
IRON	MG/L										0.0200		UNV			
LEAD	MG/L										0.0020		UNV			
MAGNESIUM	MG/L										14.6000		NV			
MANGANESE	MG/L										0.0317		NV			
MERCURY	MG/L										0.0002		UNV			
MOLYBDENUM	MG/L										0.0200		UNV			
NICKEL	MG/L										0.0200		UNV			
POTASSIUM	MG/L										2.3400		NV			
SELENIUM	MG/L										0.0020		UNV			
SILICON	MG/L										29.9000		NV			
SILVER	MG/L										0.0100		UNV			
SODIUM	MG/L										16.0000		NV			
THALLIUM	MG/L										0.0020		UNV			
VANADIUM	MG/L										0.0100		UNV			
ZINC	MG/L										0.0148		NV			
RADIONUCLIDES																
URANIUM-238	PCI/L	55.100012		NV	2.3500	.6	NV							1.0900	.38	NV

001972

5704

SAMPLE NUMBER:		109035			109019			109021			109026			109025		
LAB:		IT			IT/RSL									IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			-			-			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	164.19802		NV	7.0030	.6	NV							3.2482	.38	NV
RADIUM-226	PCI/L	1.0000		UNV	1.0000		UNV							1.0000		UNV

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		109020			109027			114620			114622			114617
TASK:		40.03.05			40.03.05			20.03.05			20.03.05			20.03.05
LAB:		IT/RSL			IT/MWL			ITAS			IT			IT
WELL OR BORING NUMBER:		1896			1896			1934			1934			1937
DEPTH:		0-6			0-6			-			-			-
DATE COLLECTED:		17-APR-93			19-APR-93			13-MAY-93			13-MAY-93			11-MAY-93
NORTH COORDINATE:		480500.01			480500.01			480394.07			480394.07			480645.51
EAST COORDINATE:		1378268.38			1378268.38			1379744.81			1379744.81			1379534.49
QA TYPE:		NORMAL			NORMAL			NORMAL			DUPLICATE			NORMAL
QC OF:											114620			
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L							385.0000		-				292.5000		-
AMMONIA	MG/L							0.1500		-				0.1400		-
CHLORIDE	MG/L							47.1000		-				573.8000		-
FLUORIDE	MG/L							0.4400		-				0.2900		-
NITRATE	MG/L							0.1000		UR				0.1000		UR
PHENOLS	MG/L							0.0100		U				0.0100		U
PHOSPHORUS	MG/L							4.1300		-				1.0000		-
SULFATE	MG/L							77.8000		-				57.4000		-
SULFIDE	MG/L							1.3500		-				0.5000		U
TOTAL KJELDAHL NITROGEN	MG/L							0.5000		-				0.2900		-
TOTAL ORGANIC CARBON	MG/L							1.5700		-						
TOTAL ORGANIC HALIDES	MG/L							0.0179		-				0.0668		-
TOTAL ORGANIC NITROGEN	MG/L							1.2000		-				0.1500		-
INORGANICS																
ALUMINUM	MG/L							0.0904		-	49.8000		-	0.0932		-
ANTIMONY	MG/L							0.0014		UJ	0.0028		UJ	0.0069		UJ
ARSENIC	MG/L							0.0010		UJ	0.0140		J	0.0010		U
BARIUM	MG/L							0.1470		-	0.4440		-	0.1630		-
BERYLLIUM	MG/L							0.0010		U	0.0068		-	0.0010		U
CADMIUM	MG/L							0.0020		U	0.0062		-	0.0020		U
CALCIUM	MG/L							96.0000		-	781.0000		-	214.0000		-
CHROMIUM	MG/L							0.0040		U	0.0639		-	0.0040		U
COBALT	MG/L							0.0030		U	0.0481		-	0.0030		U
COPPER	MG/L							0.0020		U	0.1130		-	0.0020		U
CYANIDE	MG/L				0.0020		UNV	0.0010		U				0.0010		U
IRON	MG/L							0.0402		-	94.8000		-	0.0168		U
LEAD	MG/L							0.0010		U	0.0514		-	0.0010		U
MAGNESIUM	MG/L							69.1000		-	325.0000		-	82.0000		-

SAMPLE NUMBER:		109020			109027			114620			114622			114617		
LAB:								IT			IT			IT		
SUFFIX/FILTERFLAG:		-			-			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L							0.0990		-	3.0600		-	0.6120		-
MERCURY	MG/L							0.0002		U	0.0002		U	0.0002		U
MOLYBDENUM	MG/L							0.0062		-	0.0100		-	0.0040		U
NICKEL	MG/L							0.0030		U	0.1080		-	0.0030		U
POTASSIUM	MG/L							0.8370		-	12.0000		-	2.0100		-
SELENIUM	MG/L							0.0010		UJ	0.0010		UJ	0.0010		U
SILICON	MG/L							6.0300		-	71.3000		-	5.9500		-
SILVER	MG/L							0.0020		U	0.0020		U	0.0020		U
SODIUM	MG/L							12.3000		-	13.6000		-	146.0000		-
THALLIUM	MG/L							0.0010		UJ	0.0010		UJ	0.0010		UJ
VANADIUM	MG/L							0.0080		U	0.1250		-	0.0109		U
ZINC	MG/L							0.0029		U	0.2840		-	0.0030		U
PESTICIDES																
4,4'-DDD	UG/L							0.1000		U				0.1000		U
4,4'-DDE	UG/L							0.1000		U				0.1000		U
4,4'-DDT	UG/L							0.1000		U				0.1000		U
ALDRIN	UG/L							0.0500		U				0.0500		U
ALPHA-BHC	UG/L							0.0500		U				0.0500		U
ALPHA-CHLORDANE	UG/L							0.0500		U				0.0500		U
AROCLOR-1016	UG/L							1.0000		U				1.0000		U
AROCLOR-1221	UG/L							2.0000		U				2.0000		U
AROCLOR-1232	UG/L							1.0000		U				1.0000		U
AROCLOR-1242	UG/L							1.0000		U				1.0000		U
AROCLOR-1248	UG/L							1.0000		U				1.0000		U
AROCLOR-1254	UG/L							1.0000		U				1.0000		U
AROCLOR-1260	UG/L							1.0000		U				1.0000		U
BETA-BHC	UG/L							0.0500		U				0.0500		U
DELTA-BHC	UG/L							0.0500		U				0.0500		U
DIELDRIN	UG/L							0.1000		U				0.1000		U
ENDOSULFAN II	UG/L							0.1000		U				0.1000		U
ENDOSULFAN SULFATE	UG/L							0.1000		U				0.1000		U
ENDOSULFAN-I	UG/L							0.0500		U				0.0500		U
ENDRIN	UG/L							0.1000		U				0.1000		U
ENDRIN ALDEHYDE	UG/L							0.1000		U				0.1000		U
ENDRIN KETONE	UG/L							0.1000		U				0.1000		U
GAMMA-BHC (LINDANE)	UG/L							0.0500		U				0.0500		U
GAMMA-CHLORDANE	UG/L							0.0500		U				0.0500		U
HEPTACHLOR	UG/L							0.0500		U				0.0500		U
HEPTACHLOR EPOXIDE	UG/L							0.0500		U				0.0500		U
METHOXYCHLOR	UG/L							0.5000		U				0.5000		U
TOXAPHENE	UG/L							5.0000		U				5.0000		U

RADIONUCLIDES																	
URANIUM-238	PCI/L	1.0800	.33	NV				1.8900	.542	-	5.7500	1.39	-	2.1300	.623	-
06/21/94																
SAMPLE NUMBER:		109020			109027			114620			114622			114617		
LAB:		IT/RSL						IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			-			NONE-UNF			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L	3.2184	.33	NV				4.7700	.727	-	17.5000	2.63	-	5.1600	.75	-
URANIUM-234	PCI/L							1.8100	.525	-	6.6900	1.59	-	2.4200	.689	J
THORIUM-230	PCI/L							0.3080		UJ	6.6700	1.72	-	3.0400	.956	-
RADIUM-226	PCI/L	1.0000		UNV				1.0000	.149	U	1.4000	.332	-	1.0000		UJ
URANIUM-235/236	PCI/L							0.2000	.13	U	0.2500	.16	-	0.2000	.092	UJ
THORIUM-232	PCI/L							0.3320		UJ	2.6000	.791	-	0.2000		UJ
THORIUM, TOTAL	UG/L							3.0500	.6	UJ	23.9000	7.28	-	1.2600	.92	UJ
RADIUM-228	PCI/L							3.0000		UJ	3.0000		UJ	3.0000		UJ
THORIUM-228	PCI/L							0.3320		UJ	2.8700	.862	-	0.2940		UJ
NEPTUNIUM-237	PCI/L							0.5000	.153	UJ	0.8390	.418	N	0.5000	.075	U
PLUTONIUM-239/240	PCI/L							0.5000		UJ	0.5000		UJ	0.5000	.154	U
PLUTONIUM-238	PCI/L							0.5000		UJ	0.5000		UJ	0.5000		UJ
STRONTIUM-90	PCI/L							1.0000		UJ	1.0000		UJ	1.0000		UJ
TECHNETIUM-99	PCI/L							15.0000		UJ	15.0000		UJ	15.0000		UJ
RUTHENIUM-106	PCI/L							150.0000		UJ	150.0000		UJ	150.0000		UJ
CESIUM-137	PCI/L							13.0000		UJ	16.1000		UJ	18.7000		UJ
GROSS ALPHA	PCI/L							10.2000		UJ	23.8000	15.3	J	17.2000		UJ
GROSS BETA	PCI/L							6.0000		UJ	31.6000	10.6	J	12.9000		UJ
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,2-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,3-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,4-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U				25.0000		U
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DICHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DIMETHYLPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DINITROPHENOL	UG/L							25.0000		U				25.0000		U
2,4-DINITROTOLUENE	UG/L							10.0000		U				10.0000		U
2,6-DINITROTOLUENE	UG/L							10.0000		U				10.0000		U
2-CHLORONAPHTHALENE	UG/L							10.0000		U				10.0000		U
2-CHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2-METHYLNAPHTHALENE	UG/L							10.0000		U				10.0000		U
2-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
2-NITROANILINE	UG/L							25.0000		U				25.0000		U
2-NITROPHENOL	UG/L							10.0000		U				10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U				10.0000		U
3-NITROANILINE	UG/L							25.0000		U				25.0000		U
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UR				25.0000		UR

SAMPLE NUMBER:	109020	109027	114620	114622	114617
LAB:			ITAS		IT
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U				10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U				10.0000		U
4-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
4-NITROANILINE	UG/L							25.0000		UR				25.0000		UR
4-NITROPHENOL	UG/L							25.0000		U				25.0000		U
ACENAPHTHENE	UG/L							10.0000		U				10.0000		U
ACENAPHTHYLENE	UG/L							10.0000		U				10.0000		U
ANTHRACENE	UG/L							10.0000		U				10.0000		U
BENZO(A)ANTHRACENE	UG/L							10.0000		U				10.0000		U
BENZO(A)PYRENE	UG/L							10.0000		U				10.0000		U
BENZO(B)FLUORANTHENE	UG/L							10.0000		U				10.0000		U
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U				10.0000		U
BENZO(K)FLUORANTHENE	UG/L							10.0000		U				10.0000		U
BENZOIC ACID	UG/L							50.0000		U				50.0000		U
BENZYL ALCOHOL	UG/L							10.0000		U				10.0000		U
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U				10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U				10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		UJ				10.0000		UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U				1.0000		J
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U				10.0000		U
CARBAZOLE	UG/L							10.0000		U				10.0000		U
CHRYSENE	UG/L							10.0000		U				10.0000		U
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U				10.0000		U
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U				10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U				10.0000		U
DIBENZOFURAN	UG/L							10.0000		U				10.0000		U
DIETHYL PHTHALATE	UG/L							10.0000		U				10.0000		U
DIMETHYL PHTHALATE	UG/L							10.0000		U				10.0000		U
FLUORANTHENE	UG/L							10.0000		U				10.0000		U
FLUORENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROBENZENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROBUTADIENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROETHANE	UG/L							10.0000		U				10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U				10.0000		U
ISOPHORONE	UG/L							10.0000		U				10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		U				10.0000		U
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U				10.0000		U
NAPHTHALENE	UG/L							10.0000		U				10.0000		U
NITROBENZENE	UG/L							10.0000		U				10.0000		U
P-CHLOROANILINE	UG/L							10.0000		U				10.0000		U
PENTACHLOROPHENOL	UG/L							25.0000		U				25.0000		U
PHENANTHRENE	UG/L							10.0000		U				10.0000		U
PHENOL	MG/L							10.0000		U				10.0000		U

C01977

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		114626			114782			114784			114785			112997			
TASK:		20.03.05			20.03.05			20.03.05			20.03.05			20.03.05			
LAB:		IT			IT			IT/RSL			IT			IT/MWL			
WELL OR BORING NUMBER:		1937			1937			1940			1940			1941			
DEPTH:		-			-			-			-			-			
DATE COLLECTED:		01-JUN-93			01-JUN-93			11-JUN-93			11-JUN-93			30-APR-93			
NORTH COORDINATE:		480645.51			480645.51			480457.72			480457.72			477932.76			
EAST COORDINATE:		1379534.49			1379534.49			1379525.12			1379525.12			1379691.99			
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			NORMAL			
QC OF:																	
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF			
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	
GENERAL CHEMISTRY																	
ALKALINITY AS CACO3	MG/L							327.5000		-				420.0000		-	
AMMONIA	MG/L							0.1000		U				0.4100		-	
CHLORIDE	MG/L							180.7800		-				3.1500		-	
FLUORIDE	MG/L							0.2800		-				0.5100		-	
NITRATE	MG/L							0.1000		UR				0.7100		R	
PHENOLS	MG/L							0.0100		U				0.0100		U	
PHOSPHORUS	MG/L							0.7000		-				10.3700		-	
SULFATE	MG/L							147.5000		-				87.5000		-	
SULFIDE	MG/L							0.5000		U				0.5000		U	
TOTAL KJELDAHL NITROGEN	MG/L							0.3800		-				8.4300		-	
TOTAL ORGANIC CARBON	MG/L	1.6500		-				1.2200		-				2.6000		-	
TOTAL ORGANIC HALIDES	MG/L							0.0321		J				0.0100		U	
TOTAL ORGANIC NITROGEN	MG/L							0.3800		-				8.0200		-	
INORGANICS																	
ALUMINUM	MG/L				15.4000		-	0.7860		-	13.1000		-	0.0695		-	
ANTIMONY	MG/L				0.0050		UJ	0.0587		U	0.0587		U	0.0132		J	
ARSENIC	MG/L				0.0038		J	0.0022		-	0.0054		-	0.0010		U	
BARIUM	MG/L				0.2170		-	0.1760		-	0.2120		-	0.0721		J	
BERYLLIUM	MG/L				0.0020		U	0.0004		U	0.0014		U	0.0017		U	
CADMIUM	MG/L				0.0050		UJ	0.0031		U	0.0031		U	0.0020		U	
CALCIUM	MG/L				446.0000		-	146.0000		-	283.0000		-	102.0000		-	
CHROMIUM	MG/L				0.0165		J	0.0046		U	0.0120		-	0.0040		U	
COBALT	MG/L				0.0100		U	0.0042		U	0.0163		U	0.0030		U	
COPPER	MG/L				0.0100		U	0.0090		-	0.3280		-	0.0040		U	
CYANIDE	MG/L							0.0020		UR				0.0016		-	
IRON	MG/L				23.7000		-	1.3700		-	26.4000		-	0.0246		U	
LEAD	MG/L				0.0154		-	0.0021		U	0.0170		-	0.0010		U	
MAGNESIUM	MG/L				144.0000		-	56.4000		-	104.0000		-	60.7000		-	

001978

5704

SAMPLE NUMBER:	114626	114782	114784	114785	112997
LAB:		IT	IT	IT	IT
SUFFIX/FILTERFLAG:	-	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS													
MANGANESE	MG/L				1.2900		-	0.2980		-	0.8150		-	0.0115		-
MERCURY	MG/L				0.0002		U	0.0001		UJ	0.0001		UJ	0.0002		U
MOLYBDENUM	MG/L				0.0100		U	0.0142		-	0.0123		-	0.0032		U
NICKEL	MG/L				0.0290		J	0.0420		-	0.0275		-	0.0030		U
POTASSIUM	MG/L				7.4000		-	2.9800		U	3.7800		-	0.7180		-
SELENIUM	MG/L				0.0020		UJ	0.0010		UJ	0.0010		UJ	0.0036		-
SILICON	MG/L				31.0000		J	7.9000		-	26.4000		-	8.0300		-
SILVER	MG/L				0.0100		U	0.0035		U	0.0035		U	0.0020		U
SODIUM	MG/L				156.0000		-	59.4000		-	60.5000		-	10.0000		-
THALLIUM	MG/L				0.0100		UJ	0.0010		U	0.0010		U	0.0010		U
VANADIUM	MG/L				0.0376		-	0.0021		U	0.0287		-	0.0074		U
ZINC	MG/L				0.0649		J	0.0203		U	0.1050		-	0.0152		U
PESTICIDES													
4,4'-DDD	UG/L							0.1000		U				0.1000		U
4,4'-DDE	UG/L							0.1000		U				0.1000		U
4,4'-DDT	UG/L							0.1000		U				0.1000		U
ALDRIN	UG/L							0.0500		U				0.0500		U
ALPHA-BHC	UG/L							0.0500		U				0.0500		UJ
ALPHA-CHLORDANE	UG/L							0.0500		U				0.0500		U
AROCLOR-1016	UG/L							1.0000		UJ				1.0000		UJ
AROCLOR-1221	UG/L							2.0000		UJ				2.0000		UJ
AROCLOR-1232	UG/L							1.0000		UJ				1.0000		UJ
AROCLOR-1242	UG/L							1.0000		UJ				1.0000		UJ
AROCLOR-1248	UG/L							1.0000		UJ				1.0000		UJ
AROCLOR-1254	UG/L							1.0000		UJ				1.0000		UJ
AROCLOR-1260	UG/L							1.0000		UJ				1.0000		UJ
BETA-BHC	UG/L							0.0500		U				0.0500		U
DELTA-BHC	UG/L							0.0500		UJ				0.0500		UJ
DIELDRIN	UG/L							0.1000		U				0.1000		U
ENDOSULFAN II	UG/L							0.1000		U				0.1000		U
ENDOSULFAN SULFATE	UG/L							0.1000		U				0.1000		U
ENDOSULFAN-I	UG/L							0.0500		U				0.0500		U
ENDRIN	UG/L							0.1000		U				0.1000		U
ENDRIN ALDEHYDE	UG/L							0.1000		UJ				0.1000		U
ENDRIN KETONE	UG/L							0.1000		U				0.1000		U
GAMMA-BHC (LINDANE)	UG/L							0.0500		U				0.0500		UJ
GAMMA-CHLORDANE	UG/L							0.0500		U				0.0500		U
HEPTACHLOR	UG/L							0.0500		U				0.0500		U
HEPTACHLOR EPOXIDE	UG/L							0.0500		U				0.0500		U
METHOXYCHLOR	UG/L							0.5000		U				0.5000		U
TOXAPHENE	UG/L							5.0000		UJ				5.0000		UJ

RADIONUCLIDES														
URANIUM-238	PCI/L		3.1900	.84	-	2.5800	.668	-	3.6700	.896	-	220.0000	49.8	-
06/21/94														

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		114626		114782			114784			114785			112997	
LAB:				IT			IT			IT			IT	
SUFFIX/FILTERFLAG:		-		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF	
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																
URANIUM, TOTAL	UG/L				6.4800	.94	-	6.3000	.903	-	7.6200	1.1	-	547.0000	79	-
URANIUM-234	PCI/L				3.1700	.83	-	3.1400	.788	-	3.3400	.827	-	216.0000	48.8	-
THORIUM-230	PCI/L				2.7400	.85	J	0.2000		UJ	1.2900	.451	-	0.2200	.16	J
RADIUM-226	PCI/L				1.0000		UJ	1.0000	.217	U	1.2100	.441	J	1.0000		R
URANIUM-235/236	PCI/L				0.2000	.13	UJ	0.2000	.077	UJ	0.2120	.135	J	10.7000	2.87	-
THORIUM-232	PCI/L				1.9100	.65	-	0.2000		UJ	0.7560	3.16	R	0.2000		UJ
THORIUM, TOTAL	UG/L				17.4000	5.9	-	1.1200		UJ	6.8900	2.88	-	0.5000	.54	UJ
RADIUM-228	PCI/L							3.0000	.898	U	3.6800	1.89	J	3.0000		R
THORIUM-228	PCI/L				2.3700	.76	-	0.2270		UJ	1.3600	.475	-	0.2000		UJ
NEPTUNIUM-237	PCI/L				0.5000	.116	U	0.5000	.165	UJ	0.5000	.157	U	0.5000	.18	U
PLUTONIUM-239/240	PCI/L				0.5000		UJ	0.5000	.089	U	0.5000		UJ	0.5000		UJ
PLUTONIUM-238	PCI/L				0.5000	.11	U	0.5000		UJ	0.5000		UJ	0.5000	.077	U
STRONTIUM-90	PCI/L				1.0000		UJ	1.0000		UJ	1.0000		UJ	1.0000	.478	UJ
TECHNETIUM-99	PCI/L				15.0000		UJ	15.0000		UJ	15.0000		UJ	15.0000		UJ
RUTHENIUM-106	PCI/L				150.0000		UJ	150.0000		UJ	150.0000		UJ	158.0000		UJ
CESIUM-137	PCI/L				16.0000		UJ	17.8000		UJ	11.8000		UJ	18.4000		UJ
GROSS ALPHA	PCI/L				42.8000	25.4	J	12.1800		UJ	30.3000		UJ	314.0000	43.4	J
GROSS BETA	PCI/L				22.8000		UJ	7.6700		UJ	20.9000	10.8	J	123.0000	15.5	J
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,2-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,3-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
1,4-DICHLOROBENZENE	UG/L							10.0000		U				10.0000		U
2,4,5-TRICHLOROPHENOL	UG/L							25.0000		U				25.0000		U
2,4,6-TRICHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DICHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DIMETHYLPHENOL	UG/L							10.0000		U				10.0000		U
2,4-DINITROPHENOL	UG/L							25.0000		UJ				25.0000		UR
2,4-DINITROTOLUENE	UG/L							10.0000		U				10.0000		U
2,6-DINITROTOLUENE	UG/L							10.0000		U				10.0000		U
2-BENZYL-4-CHLOROPHENOL	UG/L							10.0000		UJ						
2-CHLORONAPHTHALENE	UG/L							10.0000		U				10.0000		U
2-CHLOROPHENOL	UG/L							10.0000		U				10.0000		U
2-METHYLNAPHTHALENE	UG/L							10.0000		U				10.0000		U
2-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
2-NITROANILINE	UG/L							25.0000		UJ				25.0000		U
2-NITROPHENOL	UG/L							10.0000		U				10.0000		U
3,3'-DICHLOROBENZIDINE	UG/L							10.0000		U				10.0000		U
3-NITROANILINE	UG/L							25.0000		U				25.0000		U

001980

9204

SAMPLE NUMBER:	114626	114782	114784	114785	112997
LAB:			IT/RSL		IT/MWL
SUFFIX/FILTERFLAG:	-	-	NONE-UNF	-	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4,6-DINITRO-2-METHYLPHENOL	UG/L							25.0000		UJ				25.0000		UR
4-BROMOPHENYL PHENYL ETHER	UG/L							10.0000		U				10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L							10.0000		U				10.0000		U
4-METHYLPHENOL	UG/L							10.0000		U				10.0000		U
4-NITROANILINE	UG/L							25.0000		UJ				25.0000		U
4-NITROPHENOL	UG/L							25.0000		U				25.0000		UR
ACENAPHTHENE	UG/L							10.0000		U				10.0000		U
ACENAPHTHYLENE	UG/L							10.0000		U				10.0000		U
ANTHRACENE	UG/L							10.0000		U				10.0000		U
BENZO(A)ANTHRACENE	UG/L							10.0000		U				10.0000		U
BENZO(A)PYRENE	UG/L							10.0000		U				10.0000		U
BENZO(B)FLUORANTHENE	UG/L							10.0000		U				10.0000		U
BENZO(G,H,I)PERYLENE	UG/L							10.0000		U				10.0000		U
BENZO(K)FLUORANTHENE	UG/L							10.0000		U				10.0000		U
BENZOIC ACID	UG/L							50.0000		U				50.0000		UR
BENZYL ALCOHOL	UG/L							10.0000		UR				10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L							10.0000		U				10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L							10.0000		U				10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L							10.0000		U				10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L							10.0000		U				10.0000		UJ
BUTYL BENZYL PHTHALATE	UG/L							10.0000		U				10.0000		UJ
CARBAZOLE	UG/L							10.0000		U				10.0000		U
CHRYSENE	UG/L							10.0000		U				10.0000		U
DI-N-BUTYL PHTHALATE	UG/L							10.0000		U				10.0000		U
DI-N-OCTYL PHTHALATE	UG/L							10.0000		U				10.0000		UR
DIBENZO(A,H)ANTHRACENE	UG/L							10.0000		U				10.0000		UJ
DIBENZOFURAN	UG/L							10.0000		U				10.0000		U
DIETHYL PHTHALATE	UG/L							10.0000		U				10.0000		U
DIMETHYL PHTHALATE	UG/L							10.0000		U				10.0000		U
FLUORANTHENE	UG/L							10.0000		U				10.0000		U
FLUORENE	UG/L							10.0000		U				10.0000		U
HEXACHLOROBENZENE	UG/L							10.0000		U				10.0000		UJ
HEXACHLOROBUTADIENE	UG/L							10.0000		UJ				10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L							10.0000		U				10.0000		UJ
HEXACHLOROETHANE	UG/L							10.0000		U				10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L							10.0000		U				10.0000		UJ
ISOPHORONE	UG/L							10.0000		U				10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L							10.0000		UJ				10.0000		U
N-NITROSODIMETHYLAMINE	UG/L							10.0000		UJ						
N-NITROSODIPHENYLAMINE	UG/L							10.0000		U				10.0000		U
NAPHTHALENE	UG/L							10.0000		U				10.0000		U
NITROBENZENE	UG/L							10.0000		U				10.0000		U
P-CHLOROANILINE	UG/L							10.0000		U				10.0000		U
PENTACHLOROPHENOL	UG/L							25.0000		UJ				25.0000		UJ

SAMPLE NUMBER:	114626			114782			114784			114785			112997		
LAB:							IT/RSL						IT/MWL		
SUFFIX/FILTERFLAG:	-			-			NONE-UNF			-			NONE-UNF		
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
PHENANTHRENE UG/L							10.0000		U				10.0000		U
PHENOL MG/L							10.0000		U				10.0000		U
PYRENE UG/L							10.0000		U				10.0000		U
TRIBUTYL PHOSPHATE UG/L							10.0000		U						
VOLATILES															
1,1,1-TRICHLOROETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
1,1,2,2-TETRACHLOROETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
1,1,2-TRICHLOROETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
1,1-DICHLOROETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
1,1-DICHLOROETHENE UG/L	10.0000		U				10.0000		U				10.0000		U
1,2-DICHLOROETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
1,2-DICHLOROETHENE (TOTAL) UG/L	10.0000		U				10.0000		U				10.0000		U
1,2-DICHLOROPROPANE UG/L	10.0000		U				10.0000		U				10.0000		U
2-BUTANONE UG/L	10.0000		U				10.0000		UJ				10.0000		U
2-HEXANONE UG/L	10.0000		U				10.0000		UR				10.0000		UJ
4-METHYL-2-PENTANONE UG/L	10.0000		U				10.0000		UR				10.0000		U
ACETONE UG/L	10.0000		U				10.0000		R				10.0000		U
BENZENE UG/L	10.0000		U				10.0000		U				10.0000		U
BROMODICHLOROMETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
BROMOFORM UG/L	10.0000		U				10.0000		U				10.0000		U
BROMOMETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
CARBON DISULFIDE UG/L	10.0000		U				10.0000		UR				10.0000		UJ
CARBON TETRACHLORIDE UG/L	10.0000		U				10.0000		U				10.0000		U
CHLOROBENZENE UG/L	10.0000		U				10.0000		U				10.0000		U
CHLOROETHANE UG/L	10.0000		U				10.0000		UJ				10.0000		UJ
CHLOROFORM UG/L	10.0000		U				10.0000		U				10.0000		U
CHLOROMETHANE UG/L	10.0000		U				10.0000		U				10.0000		UJ
CIS-1,3-DICHLOROPROPENE UG/L	10.0000		U				10.0000		U				10.0000		U
DIBROMOCHLOROMETHANE UG/L	10.0000		U				10.0000		U				10.0000		U
ETHYLBENZENE UG/L	10.0000		U				10.0000		U				10.0000		U
METHYLENE CHLORIDE UG/L	10.0000		U				10.0000		U				12.0000		UJ
STYRENE UG/L	10.0000		U				10.0000		U				10.0000		U
TETRACHLOROETHENE UG/L	10.0000		U				10.0000		U				10.0000		U
TOLUENE UG/L	10.0000		U				10.0000		U				10.0000		U
TRANS-1,3-DICHLOROPROPENE UG/L	10.0000		U				10.0000		U				10.0000		U
TRICHLOROETHENE UG/L	10.0000		U				10.0000		U				10.0000		U
VINYL ACETATE UG/L	10.0000		U										10.0000		U
VINYL CHLORIDE UG/L	10.0000		U				10.0000		U				10.0000		U
XYLENES, TOTAL UG/L	10.0000		U				10.0000		U				10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:	113316	113000	113319	120487	115480
TASK:	20.03.05	20.03.05	20.03.05	20.03.05	20.03.05
LAB:	IT	IT/MWL	IT	IT	IT
WELL OR BORING NUMBER:	1941	1942	1942	1947	1950
DEPTH:	-	-	-	-	-
DATE COLLECTED:	28-MAY-93	01-MAY-93	28-MAY-93	28-JUL-93	08-JUN-93
NORTH COORDINATE:	477932.76	477662.53	477662.53	482108	482202.1
EAST COORDINATE:	1379691.99	1379627.53	1379627.53	1379906.05	1379549.67
QA TYPE:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC OF:					
SUFFIX/FILTERFLAG:	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF	NONE-UNF

		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				390.0000		-				510.0000		-	445.0000		-
AMMONIA	MG/L				0.5600		-				0.1400		-	0.1200		-
CHLORIDE	MG/L				4.6100		-				4.4500		-	9.9200		-
FLUORIDE	MG/L				0.3000		-				0.3000		-	1.2500		-
NITRATE	MG/L				0.1000		UR				0.1300		J	0.8000		J
PHENOLS	MG/L				0.0100		U				0.0100		U	0.0100		U
PHOSPHORUS	MG/L				8.0600		-				1.6300		-	0.2100		-
SULFATE	MG/L				162.7000		-				117.9600		-	190.7000		-
SULFIDE	MG/L				0.5000		U				0.5000		U	7.8700		-
TOTAL KJELDAHL NITROGEN	MG/L				3.2400		-				0.7300		-	0.3800		-
TOTAL ORGANIC CARBON	MG/L				3.3800		-				3.1300		-	2.2400		-
TOTAL ORGANIC HALIDES	MG/L				0.0118		-				0.0298		-	0.0148		-
TOTAL ORGANIC NITROGEN	MG/L				2.6800		-				0.1400		-	0.2600		-
INORGANICS																
ALUMINUM	MG/L	86.1000		-	0.0841		-	53.0000		-	0.3120		-	0.0302		U
ANTIMONY	MG/L	0.0057		J	0.0063		UJ	0.0050		UJ	0.0050		U	0.0587		U
ARSENIC	MG/L	0.0053		J	0.0010		U	0.0058		J	0.0020		UJ	0.0011		-
BARIUM	MG/L	0.5650		-	0.0901		J	0.3680		-	0.1150		-	0.0544		-
BERYLLIUM	MG/L	0.0037		-	0.0024		U	0.0020		U	0.0020		U	0.0009		U
CADMIUM	MG/L	0.0050		UJ	0.0020		U	0.0050		UJ	0.0050		U	0.0032		-
CALCIUM	MG/L	610.0000		-	143.0000		-	390.0000		-	154.0000		-	102.0000		-
CHROMIUM	MG/L	0.0898		J	0.0040		U	0.0557		J	0.0100		U	0.0046		U
COBALT	MG/L	0.0334		-	0.0030		U	0.0258		-	0.0100		U	0.0042		U
COPPER	MG/L	0.1200		-	0.0020		U	0.0757		-	0.0633		-	0.0080		U
CYANIDE	MG/L				0.0024		-				0.0020		U	0.0020		U
IRON	MG/L	131.0000		-	0.0194		U	82.4000		-	0.1100		-	0.1040		U
LEAD	MG/L	0.0336		-	0.0010		U	0.0403		-	0.0020		U	0.0010		U
MAGNESIUM	MG/L	250.0000		-	60.9000		-	145.0000		-	60.8000		-	80.7000		-

001983

SAMPLE NUMBER:		113316			113000			113319			120487			115480		
LAB:		IT			IT			IT			IT			IT		
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-FIL			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
INORGANICS																
MANGANESE	MG/L	2.2400		-	0.9430		-	2.3100		-	0.2890		-	0.2030		-
MERCURY	MG/L	0.0002		U	0.0002		U	0.0002		U	0.0002		U	0.0001		U
MOLYBDENUM	MG/L	0.0435		-	0.0110		U	0.0309		-	0.0200		U	0.0141		-
NICKEL	MG/L	0.1360		J	0.0677		-	0.1160		J	0.0200		U	0.0209		U
POTASSIUM	MG/L	16.0000		-	0.9250		-	11.6000		-	1.8100		-	3.9500		-
SELENIUM	MG/L	0.0037		J	0.0010		U	0.0020		UJ	0.0020		U	0.0012		UJ
SILICON	MG/L	102.0000		J	6.5800		-	74.6000		J	73.6000		-	7.6700		-
SILVER	MG/L	0.0351		-	0.0020		U	0.0217		-	0.0145		-	0.0035		U
SODIUM	MG/L	8.8500		-	11.7000		-	12.9000		-	13.7000		-	17.3000		-
THALLIUM	MG/L	0.0020		UJ	0.0010		U	0.0020		UJ	0.0020		U	0.0010		U
VANADIUM	MG/L	0.2050		-	0.0101		U	0.1200		-	0.0100		U	0.0024		U
ZINC	MG/L	0.3300		J	0.0120		U	0.2210		J	0.1810		-	0.0055		U
PESTICIDES																
4,4'-DDD	UG/L				0.1000		U				0.1000		U	0.1000		U
4,4'-DDE	UG/L				0.1000		U				0.1000		U	0.1000		U
4,4'-DDT	UG/L				0.1000		U				0.1000		U	0.1000		U
ALDRIN	UG/L				0.0500		U				0.0500		U	0.0500		U
ALPHA-BHC	UG/L				0.0500		UJ				0.0500		U	0.0500		U
ALPHA-CHLORDANE	UG/L				0.0500		U				0.0500		U	0.0500		U
AROCLOR-1016	UG/L				1.0000		UJ				1.0000		U	1.0000		U
AROCLOR-1221	UG/L				2.0000		UJ				2.0000		U	2.0000		U
AROCLOR-1232	UG/L				1.0000		UJ				1.0000		U	1.0000		U
AROCLOR-1242	UG/L				1.0000		UJ				1.0000		U	1.0000		U
AROCLOR-1248	UG/L				1.0000		UJ				1.0000		U	1.0000		U
AROCLOR-1254	UG/L				1.0000		UJ				1.0000		U	1.0000		U
AROCLOR-1260	UG/L				1.0000		UJ				1.0000		U	1.0000		U
BETA-BHC	UG/L				0.0500		U				0.0500		U	0.0500		U
DELTA-BHC	UG/L				0.0500		UJ				0.0500		U	0.0500		U
DIELDRIN	UG/L				0.1000		U				0.1000		U	0.1000		U
ENDOSULFAN II	UG/L				0.1000		U				0.1000		U	0.1000		U
ENDOSULFAN SULFATE	UG/L				0.1000		U				0.1000		U	0.1000		U
ENDOSULFAN-I	UG/L				0.0500		U				0.0500		U	0.0500		U
ENDRIN	UG/L				0.1000		U				0.1000		U	0.1000		U
ENDRIN ALDEHYDE	UG/L				0.1000		U				0.1000		U	0.1000		U
ENDRIN KETONE	UG/L				0.1000		U				0.1000		U	0.1000		U
GAMMA-BHC (LINDANE)	UG/L				0.0500		UJ				0.0500		U	0.0500		U
GAMMA-CHLORDANE	UG/L				0.0500		U				0.0500		U	0.0500		U
HEPTACHLOR	UG/L				0.0500		U				0.0500		U	0.0500		U
HEPTACHLOR EPOXIDE	UG/L				0.0500		U				0.0500		U	0.0500		U
METHOXYCHLOR	UG/L				0.5000		U				0.5000		U	0.5000		U
TOXAPHENE	UG/L				5.0000		UJ				5.0000		U	5.0000		U

001984

SAMPLE NUMBER:		113316			113000			113319			120487			115480		
LAB:					IT/MWL						IT			IT/MWL		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
4,6-DINITRO-2-METHYLPHENOL	UG/L				25.0000		UR				25.0000		U	25.0000		UJ
4-BROMOPHENYL PHENYL ETHER	UG/L				10.0000		U				10.0000		U	10.0000		U
4-CHLORO-3-METHYLPHENOL	UG/L				10.0000		U				10.0000		U	10.0000		U
4-CHLOROPHENYLPHENYL ETHER	UG/L				10.0000		U				10.0000		U	10.0000		U
4-METHYLPHENOL	UG/L				10.0000		U				10.0000		U	10.0000		U
4-NITROANILINE	UG/L				25.0000		U				25.0000		U	25.0000		U
4-NITROPHENOL	UG/L				25.0000		UR				25.0000		U	25.0000		UJ
ACENAPHTHENE	UG/L				10.0000		U				10.0000		U	10.0000		U
ACENAPHTHYLENE	UG/L				10.0000		U				10.0000		U	10.0000		U
ANTHRACENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BENZO(A)ANTHRACENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BENZO(A)PYRENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BENZO(B)FLUORANTHENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BENZO(G,H,I)PERYLENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BENZO(K)FLUORANTHENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BENZOIC ACID	UG/L				50.0000		UR				50.0000		U	50.0000		UJ
BENZYL ALCOHOL	UG/L				10.0000		UJ				10.0000		U	10.0000		UJ
BIS(2-CHLOROETHOXY)METHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
BIS(2-CHLOROETHYL)ETHER	UG/L				10.0000		U				10.0000		U	10.0000		U
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				10.0000		U				10.0000		U	10.0000		U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L				10.0000		UJ				10.0000		U	10.0000		U
BUTYL BENZYL PHTHALATE	UG/L				10.0000		UJ				10.0000		U	10.0000		U
CARBAZOLE	UG/L				10.0000		U				10.0000		U	10.0000		U
CHRYSENE	UG/L				10.0000		U				10.0000		U	10.0000		U
DI-N-BUTYL PHTHALATE	UG/L				10.0000		U				10.0000		U	10.0000		U
DI-N-OCTYL PHTHALATE	UG/L				10.0000		UR				10.0000		U	10.0000		U
DIBENZO(A,H)ANTHRACENE	UG/L				10.0000		UJ				10.0000		U	10.0000		U
DIBENZOFURAN	UG/L				10.0000		U				10.0000		U	10.0000		U
DIETHYL PHTHALATE	UG/L				10.0000		U				10.0000		U	10.0000		U
DIMETHYL PHTHALATE	UG/L				10.0000		U				10.0000		U	10.0000		U
FLUORANTHENE	UG/L				10.0000		U				10.0000		U	10.0000		U
FLUORENE	UG/L				10.0000		U				10.0000		U	10.0000		U
HEXACHLOROBENZENE	UG/L				10.0000		UJ				10.0000		U	10.0000		U
HEXACHLOROBUTADIENE	UG/L				10.0000		U				10.0000		U	10.0000		U
HEXACHLOROCYCLOPENTADIENE	UG/L				10.0000		UJ				10.0000		U	10.0000		U
HEXACHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
INDENO(1,2,3-CD)PYRENE	UG/L				10.0000		UJ				10.0000		U	10.0000		U
ISOPHORONE	UG/L				10.0000		U				10.0000		U	10.0000		U
N-NITROSO-DI-N-PROPYLAMINE	UG/L				10.0000		U				10.0000		U	10.0000		U
N-NITROSODIMETHYLAMINE	UG/L													10.0000		U
N-NITROSODIPHENYLAMINE	UG/L				10.0000		U				10.0000		U	10.0000		U
NAPHTHALENE	UG/L				10.0000		U				10.0000		U	10.0000		U
NITROBENZENE	UG/L				10.0000		U				10.0000		U	10.0000		U
P-CHLOROANILINE	UG/L				10.0000		U				10.0000		U	10.0000		U
PENTACHLOROPHENOL	UG/L				25.0000		UJ				25.0000		U	25.0000		UJ

SAMPLE NUMBER:		113316			113000			113319			120487			115480		
LAB:					IT/MWL						IT			IT/MWL		
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			NONE-UNF		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENANTHRENE	UG/L				10.0000		U				10.0000		U	10.0000		U
PHENOL	MG/L				10.0000		U				10.0000		U	10.0000		U
PYRENE	UG/L				10.0000		U				10.0000		U	10.0000		U
TRIBUTYL PHOSPHATE	UG/L													10.0000		U
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
1,1-DICHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
1,1-DICHLOROETHENE	UG/L				10.0000		U				10.0000		U	10.0000		U
1,2-DICHLOROETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
1,2-DICHLOROETHENE (TOTAL)	UG/L				10.0000		U				10.0000		U	10.0000		U
1,2-DICHLOROPROPANE	UG/L				10.0000		U				10.0000		U	10.0000		U
2-BUTANONE	UG/L				10.0000		U				10.0000		UJ	10.0000		U
2-HEXANONE	UG/L				10.0000		UJ				10.0000		UJ	10.0000		UJ
4-METHYL-2-PENTANONE	UG/L				10.0000		U				10.0000		UJ	10.0000		U
ACETONE	UG/L				10.0000		U				10.0000		UJ	10.0000		UJ
BENZENE	UG/L				10.0000		U				10.0000		U	10.0000		U
BROMODICHLOROMETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
BROMOFORM	UG/L				10.0000		U				10.0000		U	10.0000		U
BROMOMETHANE	UG/L				10.0000		U				10.0000		UJ	10.0000		UJ
CARBON DISULFIDE	UG/L				10.0000		UJ				10.0000		U	10.0000		U
CARBON TETRACHLORIDE	UG/L				10.0000		U				10.0000		U	10.0000		U
CHLOROBENZENE	UG/L				10.0000		U				10.0000		U	10.0000		U
CHLOROETHANE	UG/L				10.0000		UJ				10.0000		U	10.0000		UJ
CHLOROFORM	UG/L				10.0000		U				10.0000		U	10.0000		U
CHLOROMETHANE	UG/L				10.0000		UJ				10.0000		UR	10.0000		UJ
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U	10.0000		U
DIBROMOCHLOROMETHANE	UG/L				10.0000		U				10.0000		U	10.0000		U
ETHYLBENZENE	UG/L				10.0000		U				10.0000		U	10.0000		U
METHYLENE CHLORIDE	UG/L				10.0000		U				10.0000		U	10.0000		U
STYRENE	UG/L				10.0000		U				10.0000		U	10.0000		U
TETRACHLOROETHENE	UG/L				10.0000		U				10.0000		U	10.0000		U
TOLUENE	UG/L				10.0000		U				10.0000		U	10.0000		U
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U	10.0000		U
TRICHLOROETHENE	UG/L				10.0000		U				10.0000		U	10.0000		U
VINYL ACETATE	UG/L				10.0000		U				10.0000		UJ	10.0000		U
VINYL CHLORIDE	UG/L				10.0000		U				10.0000		UJ	10.0000		U
XYLENES, TOTAL	UG/L				10.0000		U				10.0000		U	10.0000		U

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		115481			115468			115471			113798				
TASK:		20.03.05			20.03.05			20.03.05			20.03.05				
LAB:		IT			IT/RSL			IT			IT				
WELL OR BORING NUMBER:		1950			1952			1952			1954			-	
DEPTH:		-			-			-			-				
DATE COLLECTED:		08-JUN-93			15-MAY-93			15-MAY-93			22-JUN-93				
NORTH COORDINATE:		482202.1			482057.73			482057.73			477864.72				
EAST COORDINATE:		1379549.67			1379766.45			1379766.45			1379400.07				
QA TYPE:		NORMAL			NORMAL			NORMAL			NORMAL				
QC OF:														-	
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF				
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
GENERAL CHEMISTRY																
ALKALINITY AS CACO3	MG/L				625.0000		-				560.0000		-			
AMMONIA	MG/L				0.1000		U				0.2200		-			
CHLORIDE	MG/L				27.0000		-				6.7900		-			
FLUORIDE	MG/L				0.1900		-				0.2500		-			
NITRATE	MG/L				0.1000		UR				0.1000		UR			
PHENOLS	MG/L				0.0100		U				0.0100		U			
PHOSPHORUS	MG/L				0.9100		-				2.0700		-			
SULFATE	MG/L				99.8000		-				203.7000		-			
SULFIDE	MG/L				0.5000		U				0.5000		U			
TOTAL KJELDAHL NITROGEN	MG/L				0.6700		-				1.4900		-			
TOTAL ORGANIC CARBON	MG/L				2.8000		-				1.4000		-			
TOTAL ORGANIC HALIDES	MG/L				0.0940		J				0.0206		J			
TOTAL ORGANIC NITROGEN	MG/L				0.6700		-				1.2700		-			
INORGANICS																
ALUMINUM	MG/L	4.3200		-	0.2160		-	53.2000		-	49.0000		-			
ANTIMONY	MG/L	0.0587		U	0.0050		U	0.0050		U	0.0050		U			
ARSENIC	MG/L	0.0020		-	0.0020		UJ	0.0044		-	0.0104		-			
BARIUM	MG/L	0.0883		-	0.1240		-	0.4660		-	0.3190		-			
BERYLLIUM	MG/L	0.0009		U	0.0020		U	0.0022		-	0.0020		U			
CADMIUM	MG/L	0.0033		-	0.0050		U	0.0050		U	0.0050		U			
CALCIUM	MG/L	122.0000		-	201.0000		-	398.0000		-	381.0000		-			
CHROMIUM	MG/L	0.0046		U	0.0100		U	0.0583		-	0.0473		-			
COBALT	MG/L	0.0085		-	0.0100		U	0.0256		-	0.0246		-			
COPPER	MG/L	0.0129		U	0.0100		U	0.0705		-	0.0622		-			
CYANIDE	MG/L				0.0020		U				0.0020		U			
IRON	MG/L	8.9200		-	0.0200		U	75.0000		-	70.3000		-			
LEAD	MG/L	0.0042		U	0.0020		U	0.0314		-	0.0449		-			
MAGNESIUM	MG/L	88.8000		-	62.7000		-	130.0000		-	147.0000		-			

001987

SAMPLE NUMBER:		115481		115468		115471		113798		-	
LAB:		IT		IT		IT		IT			
SUFFIX/FILTERFLAG:		NONE-UNF		NONE-UNF		NONE-UNF		NONE-UNF			
		RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)	RESULT SIGMA	VAL QUAL(1)
INORGANICS											
MANGANESE	MG/L	0.2860	-	0.5290	-	1.9000	-	2.3700	-		
MERCURY	MG/L	0.0001	U	0.0002	U	0.0002	U	0.0002	U		
MOLYBDENUM	MG/L	0.0196	-	0.0100	U	0.0260	-	0.0315	-		
NICKEL	MG/L	0.0209	U	0.0648	-	0.1180	-	0.1270	-		
POTASSIUM	MG/L	3.5600	-	1.5500	-	15.4000	-	13.6000	-		
SELENIUM	MG/L	0.0010	UJ	0.0020	U	0.0020	UJ	0.0020	U		
SILICON	MG/L	15.5000	-	7.9300	-	72.1000	-	77.2000	-		
SILVER	MG/L	0.0035	U	0.0100	U	0.0201	-	0.0180	-		
SODIUM	MG/L	16.2000	-	12.0000	-	12.2000	-	10.6000	-		
THALLIUM	MG/L	0.0010	U	0.0020	U	0.0020	U	0.0020	U		
VANADIUM	MG/L	0.0092	U	0.0100	U	0.1180	-	0.0100	U		
ZINC	MG/L	0.0313	-	0.0194	-	0.2120	-	0.0075	-		
PESTICIDES											
4,4'-DDD	UG/L			0.1000	U			0.1000	U		
4,4'-DDE	UG/L			0.1000	U			0.1000	U		
4,4'-DDT	UG/L			0.1000	U			0.1000	U		
ALDRIN	UG/L			0.0500	U			0.0500	U		
ALPHA-BHC	UG/L			0.0500	U			0.0500	U		
ALPHA-CHLORDANE	UG/L			0.0500	U			0.0500	U		
AROCLOR-1016	UG/L			1.0000	U			1.0000	U		
AROCLOR-1221	UG/L			2.0000	U			2.0000	U		
AROCLOR-1232	UG/L			1.0000	U			1.0000	U		
AROCLOR-1242	UG/L			1.0000	U			1.0000	U		
AROCLOR-1248	UG/L			1.0000	U			1.0000	U		
AROCLOR-1254	UG/L			1.0000	U			1.0000	U		
AROCLOR-1260	UG/L			1.0000	U			1.0000	U		
BETA-BHC	UG/L			0.0500	U			0.0500	U		
DELTA-BHC	UG/L			0.0500	U			0.0500	U		
DIELDRIN	UG/L			0.1000	U			0.1000	U		
ENDOSULFAN II	UG/L			0.1000	U			0.1000	U		
ENDOSULFAN SULFATE	UG/L			0.1000	U			0.1000	U		
ENDOSULFAN-I	UG/L			0.0500	U			0.0500	U		
ENDRIN	UG/L			0.1000	U			0.1000	U		
ENDRIN ALDEHYDE	UG/L			0.1000	U			0.1000	UJ		
ENDRIN KETONE	UG/L			0.1000	U			0.1000	U		
GAMMA-BHC (LINDANE)	UG/L			0.0500	U			0.0500	U		
GAMMA-CHLORDANE	UG/L			0.0500	U			0.0500	U		
HEPTACHLOR	UG/L			0.0500	U			0.0500	U		
HEPTACHLOR EPOXIDE	UG/L			0.0500	U			0.0500	U		
METHOXYCHLOR	UG/L			0.5000	U			0.5000	U		
TOXAPHENE	UG/L			5.0000	U			5.0000	U		

RADIONUCLIDES																	
URANIUM-238	PCI/L	4.8300	1.15	-	6.7700	1.89	-	15.2000	3.8	-	19.1000	4.23	-			
06/21/94																	

FERNALD ANALYTICAL REPORT
GROUNDWATER TYPE 1 WELLS

SAMPLE NUMBER:		115481			115468			115471			113798			-			
LAB:		IT			IT			IT			IT						
SUFFIX/FILTERFLAG:		NONE-UNF			NONE-UNF			NONE-UNF			NONE-UNF						
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
RADIONUCLIDES																	
URANIUM, TOTAL	UG/L	11.0000	1.58	-	15.8000	2.3	-	55.8000	8.7	-	64.5000	9	-			
URANIUM-234	PCI/L	5.0600	1.2	-	4.8700	1.46	-	12.0000	3	-	27.9000	5.97	-			
THORIUM-230	PCI/L	1.0300	.352	-	0.3350	.234	J	13.8000	3.1	-	0.3150	.024	J			
RADIUM-226	PCI/L	1.0000	.256	UJ	1.0000	.135	UJ	5.1100	.8	-	1.4600	.389	-			
URANIUM-235/236	PCI/L	0.2000		UJ	0.4120	.343	J	0.4320	.339	J	1.7200	.506	-			
THORIUM-232	PCI/L	0.6540	.26	J	0.2000		UJ	11.5000	2.6	-	0.9380	.338	J			
THORIUM, TOTAL	UG/L	5.9600	2.37	-	0.8650	.64	UJ	104.0000	24	-	8.5500	3.08	-			
RADIUM-228	PCI/L	3.0000		UJ	3.0000	.66	U	3.7200	1.74	J	3.0000	.684	U			
THORIUM-228	PCI/L	0.5660	.244	J	0.3230		UJ	14.0000	3.2	-	1.1000	.382	-			
NEPTUNIUM-237	PCI/L	1.9400	.583	N	0.1790		R	0.5000	.166	U	0.5000	.113	U			
PLUTONIUM-239/240	PCI/L	0.5000	.21	U	0.5000		UJ	0.5000		UJ	0.5000	.119	UJ			
PLUTONIUM-238	PCI/L	0.5000	.113	UJ	0.5000		UJ	0.5000	.132	UJ	0.5000		UJ			
STRONTIUM-90	PCI/L	1.0000		UJ	1.0000	.44	UJ	1.3500	.48	J	1.0000		UJ			
TECHNETIUM-99	PCI/L	15.0000		UJ	15.0000		UJ	15.0000		UJ	15.0000		UJ			
RUTHENIUM-106	PCI/L	150.0000		UJ	150.0000		UJ	150.0000		UJ	150.0000		UJ			
CESIUM-137	PCI/L	15.2000		UJ	13.0000		UJ	18.0000		UJ	12.8000		UJ			
GROSS ALPHA	PCI/L	53.9000		UJ	25.6000	14.6	J	92.1000		UJ	61.0000	18.3	J			
GROSS BETA	PCI/L	64.0000	23.3	J	13.3000	8.6	J	178.0000	48	J	41.0000	13.8	J			
SEMIVOLATILES																	
1,2,4-TRICHLOROBENZENE	UG/L				10.0000		U				10.0000		U			
1,2-DICHLOROBENZENE	UG/L				10.0000		U				10.0000		U			
1,3-DICHLOROBENZENE	UG/L				10.0000		U				10.0000		U			
1,4-DICHLOROBENZENE	UG/L				10.0000		U				10.0000		U			
2,4,5-TRICHLOROPHENOL	UG/L				25.0000		U				25.0000		U			
2,4,6-TRICHLOROPHENOL	UG/L				10.0000		U				10.0000		U			
2,4-DICHLOROPHENOL	UG/L				10.0000		U				10.0000		U			
2,4-DIMETHYLPHENOL	UG/L				10.0000		U				10.0000		U			
2,4-DINITROPHENOL	UG/L				25.0000		UJ				25.0000		UJ			
2,4-DINITROTOLUENE	UG/L				10.0000		U				10.0000		U			
2,6-DINITROTOLUENE	UG/L				10.0000		U				10.0000		U			
2-BENZYL-4-CHLOROPHENOL	UG/L				10.0000		U				10.0000		U			
2-CHLORONAPHTHALENE	UG/L				10.0000		U				10.0000		U			
2-CHLOROPHENOL	UG/L				10.0000		U				10.0000		U			
2-METHYLNAPHTHALENE	UG/L				10.0000		U				10.0000		U			
2-METHYLPHENOL	UG/L				10.0000		U				10.0000		U			
2-NITROANILINE	UG/L				25.0000		U				25.0000		U			
2-NITROPHENOL	UG/L				10.0000		U				10.0000		U			
3,3'-DICHLOROBENZIDINE	UG/L				10.0000		U				10.0000		U			
3-NITROANILINE	UG/L				25.0000		U				25.0000		U			

SAMPLE NUMBER:	115481			115468			115471			113798			-		
LAB:				IT/RSL						IT/MWL					
SUFFIX/FILTERFLAG:	-			NONE-UNF			-			NONE-UNF					
	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES															
4,6-DINITRO-2-METHYLPHENOL UG/L				25.0000		U				25.0000		UJ			
4-BROMOPHENYL PHENYL ETHER UG/L				10.0000		U				10.0000		U			
4-CHLORO-3-METHYLPHENOL UG/L				10.0000		U				10.0000		U			
4-CHLOROPHENYLPHENYL ETHER UG/L				10.0000		U				10.0000		U			
4-METHYLPHENOL UG/L				10.0000		U				10.0000		U			
4-NITROANILINE UG/L				25.0000		U				25.0000		U			
4-NITROPHENOL UG/L				25.0000		U				25.0000		U			
ACENAPHTHENE UG/L				10.0000		U				10.0000		U			
ACENAPHTHYLENE UG/L				10.0000		U				10.0000		U			
ANTHRACENE UG/L				10.0000		U				10.0000		U			
BENZO(A)ANTHRACENE UG/L				10.0000		U				10.0000		U			
BENZO(A)PYRENE UG/L				10.0000		U				10.0000		U			
BENZO(B)FLUORANTHENE UG/L				10.0000		U				10.0000		U			
BENZO(G,H,I)PERYLENE UG/L				10.0000		U				10.0000		U			
BENZO(K)FLUORANTHENE UG/L				10.0000		U				10.0000		U			
BENZOIC ACID UG/L				50.0000		UJ				50.0000		U			
BENZYL ALCOHOL UG/L				10.0000		UR				10.0000		U			
BIS(2-CHLOROETHOXY)METHANE UG/L				10.0000		U				10.0000		U			
BIS(2-CHLOROETHYL)ETHER UG/L				10.0000		U				10.0000		U			
BIS(2-CHLOROISOPROPYL) ETHER UG/L				10.0000		U				10.0000		UJ			
BIS(2-ETHYLHEXYL)PHTHALATE UG/L				10.0000		U				10.0000		U			
BUTYL BENZYL PHTHALATE UG/L				10.0000		U				10.0000		U			
CARBAZOLE UG/L				10.0000		U				10.0000		U			
CHRYSENE UG/L				10.0000		U				10.0000		U			
DI-N-BUTYL PHTHALATE UG/L				10.0000		U				10.0000		U			
DI-N-OCTYL PHTHALATE UG/L				10.0000		U				10.0000		U			
DIBENZO(A,H)ANTHRACENE UG/L				10.0000		U				10.0000		U			
DIBENZOFURAN UG/L				10.0000		U				10.0000		U			
DIETHYL PHTHALATE UG/L				10.0000		U				10.0000		U			
DIMETHYL PHTHALATE UG/L				10.0000		U				10.0000		U			
FLUORANTHENE UG/L				10.0000		U				10.0000		U			
FLUORENE UG/L				10.0000		U				10.0000		U			
HEXACHLOROBENZENE UG/L				10.0000		U				10.0000		U			
HEXACHLOROBUTADIENE UG/L				10.0000		U				10.0000		UJ			
HEXACHLOROCYCLOPENTADIENE UG/L				10.0000		U				10.0000		U			
HEXACHLOROETHANE UG/L				10.0000		U				10.0000		U			
INDENO(1,2,3-CD)PYRENE UG/L				10.0000		U				10.0000		U			
ISOPHORONE UG/L				10.0000		U				10.0000		U			
N-NITROSO-DI-N-PROPYLAMINE UG/L				10.0000		U				10.0000		U			
N-NITROSODIMETHYLAMINE UG/L				10.0000		U				10.0000		U			
N-NITROSODIPHENYLAMINE UG/L				10.0000		U				10.0000		U			
NAPHTHALENE UG/L				10.0000		U				10.0000		U			
NITROBENZENE UG/L				10.0000		U				10.0000		U			
P-CHLOROANILINE UG/L				10.0000		U				25.0000		UJ			
PENTACHLOROPHENOL UG/L				25.0000		U									

SAMPLE NUMBER:		115481			115468			115471			113798					
LAB:					IT/RSL						IT/MWL					
SUFFIX/FILTERFLAG:		-			NONE-UNF			-			NONE-UNF			-		
		RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)	RESULT	SIGMA	VAL QUAL(1)
SEMIVOLATILES																
PHENANTHRENE	UG/L				10.0000		U				10.0000		U			
PHENOL	MG/L				10.0000		U				10.0000		U			
PYRENE	UG/L				10.0000		U				10.0000		U			
TRIBUTYL PHOSPHATE	UG/L				10.0000		U				10.0000		UR			
VOLATILES																
1,1,1-TRICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1,2,2-TETRACHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1,2-TRICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1-DICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,1-DICHLOROETHENE	UG/L				10.0000		U				10.0000		U			
1,2-DICHLOROETHANE	UG/L				10.0000		U				10.0000		U			
1,2-DICHLOROETHENE (TOTAL)	UG/L				16.0000		-				10.0000		U			
1,2-DICHLOROPROPANE	UG/L				10.0000		U				10.0000		U			
2-BUTANONE	UG/L				10.0000		UJ				10.0000		U			
2-HEXANONE	UG/L				10.0000		U				10.0000		U			
4-METHYL-2-PENTANONE	UG/L				10.0000		UJ				10.0000		U			
ACETONE	UG/L				10.0000		U				10.0000		U			
BENZENE	UG/L				10.0000		U				10.0000		U			
BROMODICHLOROMETHANE	UG/L				10.0000		U				10.0000		U			
BROMOFORM	UG/L				10.0000		U				10.0000		U			
BROMOMETHANE	UG/L				10.0000		U				10.0000		U			
CARBON DISULFIDE	UG/L				10.0000		U				10.0000		U			
CARBON TETRACHLORIDE	UG/L				10.0000		U				10.0000		U			
CHLOROBENZENE	UG/L				10.0000		U				10.0000		U			
CHLOROETHANE	UG/L				10.0000		UJ				10.0000		U			
CHLOROFORM	UG/L				10.0000		U				10.0000		U			
CHLOROMETHANE	UG/L				10.0000		U				10.0000		U			
CIS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U			
DIBROMOCHLOROMETHANE	UG/L				10.0000		U				10.0000		U			
ETHYLBENZENE	UG/L				10.0000		U				10.0000		U			
METHYLENE CHLORIDE	UG/L				11.0000		UJ				15.0000		U			
STYRENE	UG/L				10.0000		U				10.0000		U			
TETRACHLOROETHENE	UG/L				10.0000		U				10.0000		U			
TOLUENE	UG/L				10.0000		U				10.0000		U			
TRANS-1,3-DICHLOROPROPENE	UG/L				10.0000		U				10.0000		U			
TRICHLOROETHENE	UG/L				10.0000		U				10.0000		U			
VINYL ACETATE	UG/L				10.0000		UJ									
VINYL CHLORIDE	UG/L				10.0000		UJ				10.0000		U			
XYLENES, TOTAL	UG/L				10.0000		U				10.0000		U			

001991