R-036-203 .6

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ENGINEERING EVALUATION/COST ANALYSIS FOR REMOVAL ACTION NO. 27 MANAGEMENT OF CONTAMINATED STRUCTURES VOLUME II - BACKUP DATA MAY 1993 FINAL

06/16/93

DOE-FN EPA
314
REPORT

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Engineering Evaluation/Cost Analysis-
For Removal Action No. 27
Management of Contaminated Structures

Volume II - Backup Data

Appendix C: Cost Analysis Summary Tables and Supporting Cost Breakdown Data

Appendix D: Data Sheets and Detailed Grid Maps for the Twenty-Five Structures

Appendix E: Waste Stream Volumes Tables: Summary and By Structure

Appendix F: Calculation of Peak Dose During LLW Transport

Appendix G: Environmental (Air Quality) Data ISCLT2 Model Output

Fernald Environmental Management Project
Fernald, Ohio

May 1993
Final

United States Department of Energy

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Fernald Environmental Management Project
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May 1993
Final

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APPENDIX C

Cost Analysis Summary Tables and Supporting Cost Breakdown Data

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EXPLANATION OF COLUMN FIELDS
COST ANALYSIS TABLES

1.	Structures	- Number and description of structure (or building) being costed.
2.	Prime Costs Subtotal	- Raw material, labor and construction equipment costs.
3.	Added Factors, Engineering and Management	- Additional costs above raw material, labor and construction equipment costs necessary for actual D&D completion which are associated with that particular structure. These factors include D&D environmental monitoring, painting abatement of transite, hazardous material productivity, job condition factors, indirects, health physics, CERCLA costs, bond, general contractor mark-up on subcontractors, and general contractor's overhead and profit. Also included are all construction management, project management, engineering fees, sales tax (material only), disposal/construction equipment decontamination, and contingency.
4.	Onsite Waste Processing	- A cost based upon unit cost per cubic foot of waste materials to be processed onsite as either an intermediate step to final processing or as an interim storage cost until final disposition of waste.
5.	Offsite Waste Disposition	- A cost based upon unit cost per cubic foot of waste material to be processed at final disposition.
	A. Free Release	- Dollar costs for releasing "clean" salvageable material to the public.
	B. Landfill	- Dollar costs for burial of "clean" waste to a local registered landfill.
	C. LLW	- Dollar costs for final disposition to a low-level radiation dump site.
	D. Mixed Waste	- Dollar costs for final disposition of possible mixed (LLW & RCRA) wastes.
	E. RCRA	- Dollar costs for final disposition of only RCRA wastes.
	F. TSCA	- Dollar costs for incineration at an authorized TSCA incineration site.
6.	'92 Dollars Total Cost	- Costs included in Columns 2 through 5 listed above.
7.	'95 Dollars Total Cost Escalated	- 1992 dollars total costs escalated to midpoint of project - 1995 - 9.27% escalation.

Note: All cost figures listed include a 40% contingency factor reflected as part of Column 3 cost (except on-site and off-site waste processing costs).

REMOVAL ACTION #27
EE/CA
FILE:PL-SUM2.WQ1

DATE: 17-May-93

COST ANALYSIS SUMMARY TABLE
ALL AREAS

SUMMARY AREAS	PRIME COSTS SUBTOTAL	ADDED FACTORS, ENGINEERING, AND MANAGEMENT	ON SITE WASTE PROCESSING	OFF SITE WASTE DISPOSITION						'92 DOLLARS TOTAL COST	'95 DOLLARS TOTAL COST ESCALATED
				FREE RELEASE	LAND FILL	LLW	MIXED WASTE	RCRA	TSCA		
PLANT 1	270,168	1,263,602	132,862		209	89,790	783			1,757,415	1,920,327
PLANT 2/3	983,250	5,576,748	1,912,094		3,957	996,504	44,707			9,517,259	10,399,509
PILOT PLANT	967,228	4,411,209	1,784,680		59,428	807,348	44,536			8,074,428	8,822,928
PLANT 4	7,995,747	83,626,059	8,598,811		9,515	5,283,307	116,006			105,629,444	115,421,294
NORTH/EAST AREA	1,781,861	8,044,632	3,991,323		28,633	754,125	254,012	659,750		15,514,337	16,952,516
SUBTOTAL	11,998,254	102,922,249	16,419,771		101,742	7,931,072	460,045	659,750		140,492,884	153,516,574

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REMOVAL ACTION #27
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DATE: 17-May-93

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COST ANALYSIS SUMMARY TABLE
PLANT 1 AREA

PLANT 1 STRUCTURES	PRIME COSTS SUBTOTAL	ADDED FACTORS, ENGINEERING, AND MANAGEMENT	ON SITE WASTE PROCESSING	OFF SITE WASTE DISPOSITION						'92 DOLLARS TOTAL COST	'95 DOLLARS TOTAL COST ESCALATED
				FREE RELEASE	LAND FILL	LLW	MIXED WASTE	RCRA	TSCA		
67 Thorium Warehouse	138,609	649,964	43,763		89	26,959	522			859,907	939,620
72 Warehouse for Integrated Demo	131,559	613,638	89,099		120	62,831	261			897,508	980,707
SUBTOTAL	270,168	1,263,602	132,862		209	89,790	783			1,757,415	1,920,327

REMOVAL ACTION #27
EE/CA
FILE:PL2.WQ1

DATE: 17-May-93

COST ANALYSIS SUMMARY TABLE
PLANT 2/3 AREA

PLANT 2/3 STRUCTURES	PRIME COSTS SUBTOTAL	ADDED FACTORS, ENGINEERING, AND MANAGEMENT	ON SITE WASTE PROCESSING	OFF SITE WASTE DISPOSITION						'92 DOLLARS TOTAL COST	'95 DOLLARS TOTAL COST ESCALATED
				FREE RELEASE	LAND FILL	LLW	MIXED WASTE	RCRA	TSCA		
18K Temp. Lagoon Low Nitrate Tank	48,688	234,066	46,582		54	9,768	2,933			342,092	373,803
18L Temp. Lagoon High Nitrate Tank	63,812	343,489	61,155		81	13,789	3,728			486,054	531,112
39A Incinerator Bluilding	474,171	2,619,517	662,791		2,397	366,337	13,739			4,138,952	4,522,633
3G Refrigeration Building	93,198	382,508	232,406		72	164,583	634			873,401	954,365
3F Harshaw System	303,380	1,997,168	909,160		1,353	442,027	23,672			3,676,760	4,017,596
SUBTOTAL	983,250	5,576,748	1,912,094		3,957	996,504	44,707			9,517,259	10,399,509

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REMOVAL ACTION #27
EE/CA
FILE:PLP.WQ1

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DATE: 17-May-93

COST ANALYSIS SUMMARY TABLE
PILOT PLANT AREA

PILOT PLANT STRUCTURES	PRIME COSTS SUBTOTAL	ADDED FACTORS, ENGINEERING, AND MANAGEMENT	ON SITE WASTE PROCESSING	OFF SITE WASTE DISPOSITION						'92 DOLLARS TOTAL COST	'95 DOLLARS TOTAL COST ESCALATED
				FREE RELEASE	LAND FILL	LLW	MIXED WASTE	RCRA	TSCA		
68 Thorium Warehouse	348,567	1,389,884	381,498		4,403	262,677	863			2,387,892	2,609,250
13B Pilot Plant Maintenance	135,084	460,402	194,746		4,196	104,863	3,355			902,647	986,322
13C Pilot Plant Sump House & Tanks	90,691	521,170	194,345		48,669	29,106	736			884,717	966,730
13D West Tank Farm	392,885	2,039,752	1,014,091		2,160	410,702	39,582			3,899,173	4,260,626
SUBTOTAL	967,228	4,411,209	1,784,680		59,428	807,348	44,536			8,074,428	8,822,928

REMOVAL ACTION #27
EE/CA
FILE:PL4.WQ1

DATE: 17-May-93

COST ANALYSIS SUMMARY TABLE
PLANT 4 AREA

PLANT 4 STRUCTURES	PRIME COSTS SUBTOTAL	ADDED FACTORS, ENGINEERING, AND MANAGEMENT	ON SITE WASTE PROCESSING	OFF SITE WASTE DISPOSITION						'92 DOLLARS TOTAL COST	'95 DOLLARS TOTAL COST ESCALATED
				FREE RELEASE	LAND FILL	LLW	MIXED WASTE	RCRA	TSCA		
7A Plant 7 Building	2,290,435	16,859,049	2,321,708		5,460	1,394,628	34,953			22,906,234	25,029,642
4A Plant 4, Green Salt Plant & Misc. Tanks	5,482,875	65,958,938	5,926,444		3,759	3,638,965	80,240			81,091,221	88,608,377
4C Plant 4, Maintenance Building	222,437	808,071	350,660		295	249,713	813			1,631,989	1,783,275
SUBTOTAL	7,995,747	83,626,059	8,598,811		9,515	5,283,307	116,006			105,629,444	115,421,294

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REMOVAL ACTION #27
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DATE: 17-May-93

COST ANALYSIS SUMMARY TABLE
NORTH/EAST AREA

NORTH/EAST STRUCTURES	PRIME COSTS SUBTOTAL	ADDED FACTORS, ENGINEERING, AND MANAGEMENT	ON SITE WASTE PROCESSING	OFF SITE WASTE DISPOSITION						'92 DOLLARS TOTAL COST	'95 DOLLARS TOTAL COST ESCALATED
				FREE RELEASE	LAND FILL	LLW	MIXED WASTE	RCRA	TSCA		
73A Fire Brigade Training Center	41,915	163,575	15,316		2,085	5,573	131			228,594	249,785
73B Fire Training Pond	47,160	296,605	2,237,461			1,069	197,817	647,827		3,427,939	3,745,709
73C Fire Training Tank	7,089	74,664	18,219		27	1,539	1,405	11,923		114,867	125,515
73D Fire Training Burn Trough	7,821	75,419	3,788			2,763				89,792	98,115
73E Combined Space Burn Plant	16,412	100,228	810			486				117,936	128,869
10D Graphite/Oil Burner	173,867	612,886	133,562		7,560	34,818	5,609			968,301	1,058,063
69 Old D & D Building	653,330	3,223,289	789,335		7,663	231,067	39,712			4,944,396	5,402,742
65 Plant 5 Whse (Thorium Warehouse)	459,371	2,034,906	199,857		1,200	99,120	5,222			2,799,676	3,059,206
32A Magnesium Storage Building	304,089	1,062,177	565,565		10,097	362,617	3,561			2,308,108	2,522,070
32B Covered Loading Deck	21,514	119,203	11,959			8,016	80			160,772	175,676
39D Incinerator - Sewage Treatment Plant	49,294	281,679	15,452			7,055	475			353,955	386,767
SUBTOTAL	1,781,861	8,044,632	3,991,323		28,633	754,125	254,012	659,750		15,514,337	16,952,516

EXPLANATION OF TERMS OR FIELDS USED IN THE COST ANALYSIS OF EACH STRUCTURE

Sheet 1

Improvements to Land	Contractor's raw cost to perform work described, specifically to perform decontamination and dismantling of each individual structure.
1. Materials	Unit costed raw material costs necessitated by the Scope of Work.
2. Labor	Unit costed labor dollar for performance of the work.
3. Construction Equipment	Unit costed rental equipment costs to assist labor force in performance of work.
D&D Subtotal	Subtotal horizontally and vertically of all material, labor dollars and construction equipment rental costs involved with D&D only of that structure.
D&D Environmental Monitoring	Additional monitoring and measuring costs involved with D&D, with possible recharacterization of waste materials once dismantled.
Painting Abatement of Transite	Asbestos abatement is assessed by structure, as it was determined that disposition of none of the transites is to a landfill. Abatement of all roofs of the transite structures only were assumed.
Hazard Material Productivity	An added cost (in man-hours or lost productivity) to labor dollars due to a composite of seven possible structure-specific conditions affecting labor only (see Appendix D - "Data Sheets" Section on "Structure Specific Cost Analysis Difficulty Factors" for further detail). See Sheet 3 for explanation of conditions.
Job Condition Factors	Additional costs are added to the D&D subtotal for costs associated with labor dollars for: a) weather, b) craft interference, c) abnormal cleanup, d) stringent testing and inspection, and e) non-productive time. Total % added to labor dollars only is 16.25%. See Sheet 3 for source reference.
Indirects	Additional costs are added to the labor dollars for: a) small tools, b) scaffolding, c) cleanup, d) temporary facilities/service, e) change order allowance, f) field supervision, and g) premium time. Total % added to labor dollars and job conditions is 20%. See Sheet 3 for source reference.
Health Physics	Additional costs are added to the labor dollars for costs associated with compliance with health physics requirements placed on the general contractor by DOE and the plant operating manager. See Sheet 3 for source reference.
CERCLA	Costs included to perform necessary CERCLA requirements for training, medical exams, testing, and necessary personnel protection equipment needed to perform work for that specific structure.
Bond	Payment and performance bond requirements placed on the General Contractor as a surety to complete project physically and financially.

EXPLANATION OF TERMS OR FIELDS USED IN THE COST ANALYSIS OF EACH STRUCTURE (Cont'd.)

GC Mark-up on Subs	A percentage added to any subcontractor's contract fee for costs the General Contractor increases due to oversight of subcontractor's work performance. (Approximately 40% of D&D subtotal assumed to be subcontracted.)
General Contractor OH&P	Percentage overhead and profit (compounded %) applied by the General Contractor to his total cost figures.
Construction Management	Work performed by the onsite plant contractor for oversight activities to oversee General Contractor's work compliance.
Safety Documentation	Cost for necessary safety documentation (OSHA and state requirements) to be generated for the project. These costs are included in the engineering fees.
Project Management	Work performed by the onsite plant operator to oversee the total project and all other costs associated with that structure.
Engineering	Costs to create drawing and specifications for a specific structure for D&D.
1. Title I	Preliminary stage documentation
2. Title II	Certified for construction documentation
3. Title III	Inspection cost for compliance to Title II drawings and specifications
Sales Tax	Local and state tax @ 5.5% on material costs only.
Disposal/Construction Equipment Decon	Costs associated with decontaminating equipment used in the D&D process, along with containerization of waste streams associated with that specific structure.
1. Containers	Cost of purchasing associated with specific waste stream quantities for that specific structure.
2. Decon/Cleaning	Decontamination costs associated with specific equipment rented to perform D&D portion of the work.
Escalation	Midpoint of expected total project duration is 1995. Using DOE direction, escalation rate of project years are 2.4%, 3.1% and 3.5% thereafter, thus 9.27% escalation of project costs.
Contingency	40% of all costs except waste stream disposition (on and offsite).
Total Cost	Sum total of all costs listed above.

EXPLANATION OF TERMS OR FIELDS USED IN THE COST ANALYSIS OF EACH STRUCTURE (Cont'd.)

Sheet 2

CERCLA and Miscellaneous Costs - General Contractor	CERCLA costs associated with necessary training, testing, and examining workers (and staff) involved with D&D of that specific structure. PPE-costs are included for all necessary Personnel Protection Equipment and cleaning of PPE equipment necessary for the performance of the work associated with that specific structure, incorporating any necessary additional dressout due to contamination present.
Construction Equipment	Since each structure is analyzed as to the anticipated cost to D&D only that specific structure (irrespective of any other structure or total lumping of all structures), construction equipment is based on a weekly (or each) cost associated with the specific time needed to use that equipment, then decontaminate it and return it to rental company.

Sheet 3

Decontamination	Costs associated with additional decontamination of the equipment used and purchase cost for containers.
Assumptions	Number of construction workers and project duration in weeks to perform Scope of Work. Also, the assumed percent PPE assessed as above minimum level C dressout requirements.

EXPLANATION OF TERMS OR FIELDS USED IN THE COST ANALYSIS OF EACH STRUCTURE (Cont'd.)

RELATIONSHIP OF SHEETS 2 AND 3 TO SHEET 1 OF THE COST ANALYSIS FOR EACH SPECIFIC STRUCTURE

Sheet 1 is a summary of all costs (less onsite and offsite waste disposition costs) for a specific structure, as though it was a stand-alone project.

Sheet 2 "Total CERCLA and Miscellaneous Costs" (top half of sheet) is rolled up into Sheet 1 under "CERCLA." (Material and labor dollars, respectively.)

Sheet 2 "Construction Equipment Total" (Bottom half of sheet) is rolled up into Sheet 1 under "Construction Equipment $" under "Improvements to Land", which is subtotaled under "Subtotal D&D Prime Costs."

Sheet 3 "Total - Decontamination" and "Total - Containers" costs are rolled up into Sheet 1 under the subheading "Disposal/Const. Eq. Decon." and applied with "Containers - Total" under containers and "Decontamination - Total" under decon/cleaning.

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 3F

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	HARSHAW SYSTEM	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	31,153	156,867	115,360	303,380
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			31,153	156,867	115,360	303,380
D & D ENVIRONMENTAL MONITORING						10,163
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0	0	0	0	0
HAZARD MAT. PRODUCTIVITY		179.5%	0	281,576	0	281,576
JOB CONDITION FACTORS		16.25%	0	71,247	0	71,247
INDIRECTS		20.0%	0	101,938	0	101,938
HEALTH PHYSICS		20.0%	0	66,010	0	66,010
SUBTOTAL			31,153	677,638	115,360	834,315
CERCLA			83,558	45,680	0	129,238
BOND		1.0%	312	7,233	1,154	8,698
GC MARK-UP ON SUBS		5.0% OF $121,000	0	0	6,050	6,050
GEN CONTRACTOR OH & P		20.0%	6,293	136,974	24,513	167,780
SUBTOTAL			121,315	867,526	147,076	1,146,081
CONSTR. MGMT.		16.0%				183,373
SUBTOTAL						1,329,454
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				106,356
ENGINEERING		9.0% Title I & II	103,147	Title III 1.0%	11,461	114,608
SUBTOTAL						1,550,419
SALES TAX		5.5%				1,713
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	56,357	DECON/CLEANING	34,760	91,117
SUBTOTAL						1,643,249
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						1,643,249
CONTINGENCY				40.0%		657,299
TOTAL COST						2,300,548

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 3F		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	HARSHAW SYSTEM			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	14	0	0	72	1,037	25	25,920	25,920
2. MEDICAL EXAM (ENTY/EXIT)	29	500	14,400	8	230	25	5,760	20,160
3. BIOASSAY TESTING (2 HRS PER YEAR)	14	0	0	2	29	25	720	720
4. ANNUAL MED. EXAMS. ($500 EA)	14	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	14	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	2,880	2,880	259	259	25	6,480	9,360
SUBTOTAL - CERCLA			17,280		1,555		38,880	56,160
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	326	85	27,744		0		0	27,744
2. MSA MASKS (2 EA PER WORKER PER YEAR)	24	25	600		0		0	600
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	4,896	1	4,896		0		0	4,896
4. GLOVES (4 PR PER DAY PER WORKER)	8,160	2.25	18,360		0		0	18,360
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	36	20	720		0		0	720
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	1	35	18		0		0	18
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	12	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	34	250	8,500		0		0	8,500
9. PUMP STORAGE TANKS WEEKLY	34	0	0	4	136	25	3,400	3,400
10. COMPACTION EQUIPMENT WEEKLY	34	160	5,440	4	136	25	3,400	8,840
SUBTOTAL - PERSONNEL PROTECTION			66,278		272		6,800	73,078
TOTAL CERCLA & MISC. COSTS			83,558		1,827	HR	45,680	129,238

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 3F		DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	HARSHAW SYSTEM			REV. NO.:	0

DURATION (WEEKS) 34	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	2	EA	11	WK	22	127	2,794
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	17	WK	17	900	15,300
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	1	EA	11	WK	11	2,100	23,100
CONCRETE SAWS	1	EA	10	WK	10	190	1,900
CONCRETE SAW BLADES	4	EA	1	EA	4	100	400
EQUIPMENT INSURANCE	NA	NA	NA	NA	166	27	4,482
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	17	WK	17	215	3,655
PICK UP TRUCKS	1	EA	34	WK	34	90	3,060
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	85	5	425
SERVICE TRUCK & EQUIP.	1	EA	34	WK	34	145	4,930
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	1	EA	3	WK	3	145	435
FORK LIFTS	1	EA	7	WK	7	300	2,100
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	1	EA	17	WK	17	350	5,950
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	17	WK	17	580	9,860
LOADER/BACKHOE 1/2 CY BKT	1	EA	9	WK	9	450	4,050
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	1	EA	1	EA	1	5,500	5,500
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.25	TN	1	EA	0.25	9,000	2,250
WELDING & CUTTING EQUIP.	4	EA	1	EA	4	350	1,400
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	17	WK	17	220	3,740
CONST. STORAGE, SHOPS & FACILITIES	1	EA	34	WK	34	100	3,400
FUEL	NA	NA	NA	NA	193	50	9,650
REPAIRS & MAINTENANCE	NA	NA	NA	NA	193	5	965
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		109,346	6,014
CONSTRUCTION EQUIPMENT TOTAL							116,360

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 3F		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	HARSHAW SYSTEM			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	10	EA	25	250	8	80	35	280	2,800	0	0	305	3,050
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	1	EA	10	10	10	10	35	350	350	0	0	360	360
5. TEMPORARY STRUCTURES	90	CSF	5	450	5	450	35	175	15,750	5	450	185	16,650
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				910		940			32,900		950		34,760

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	13.10	EA	2,900	37,997	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	37,997
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	25.64	EA	700	17,946	0.00	0.00	25.19	0.00	0.00	0.00	0	700	17,946
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	11.81	EA	35	413	0.00	0.00	25.19	0.00	0.00	0.00	0	35	413
TOTAL				56,357		0			0		0		56,357

ASSUMPTIONS & INPUTS	
# OF WORKERS	12
# OF WEEKS	34
PERCENT PPE	30.00%
COMPONENT NUMBER	STRUCTURE 3F
COMP DESIGNATION	HARSHAW SYST
MATERIAL $	31153
LABOR $	156887
PRODUCTIVITY	179.50%
TEMPORARY STRUCTS	90

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 3G

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	REFRIGERATION BUILDING	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	3,835	61,356	28,007	93,198
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			3,835	61,356	28,007	93,198
D & D ENVIRONMENTAL MONITORING						3,122
PAINTING ABATE. OF TRANSITE		1,584 sq/ft 0.05 / 0.3	79	475	0	554
HAZARD MAT. PRODUCTIVITY		16.2%	0	9,940	0	9,940
JOB CONDITION FACTORS		16.25%	0	11,663	0	11,663
INDIRECTS		20.0%	0	16,687	0	16,687
HEALTH PHYSICS		20.0%	0	18,036	0	18,036
SUBTOTAL			3,914	118,157	28,007	153,200
CERCLA			22,203	21,840	0	44,043
BOND		1.0%	39	1,400	280	1,719
GC MARK-UP ON SUBS		5.0% OF $37,000	0	0	1,850	1,850
GEN CONTRACTOR OH & P		20.0%	791	23,911	6,027	30,729
SUBTOTAL			26,947	165,308	36,165	231,541
CONSTR. MGMT.		16.0%				37,047
SUBTOTAL						268,588
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				21,487
ENGINEERING		9.0% Title I & II	20,839	Title III 1.0%	2,315	23,154
SUBTOTAL						313,229
SALES TAX		6.5%				211
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	9,460	DECON/CLEANING	16,890	26,350
SUBTOTAL						339,790
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						339,790
CONTINGENCY				40.0%		135,916
TOTAL COST						475,706

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 3G	PRINT DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	REFRIGERATION BUILDING		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	7	0	0	72	518	25	12,960	12,960
2. MEDICAL EXAM (ENTY/EXIT)	14	500	7,200	8	115	25	2,880	10,080
3. BIOASSAY TESTING (2 HRS PER YEAR)	7	0	0	2	14	25	360	360
4. ANNUAL MED. EXAMS. ($500 EA)	7	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	7	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,440	1,440	130	130	25	3,240	4,680
SUBTOTAL - CERCLA			8,640		778		19,440	28,080
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	58	85	4,896		0		0	4,896
2. MSA MASKS (2 EA PER WORKER PER YEAR)	12	25	300		0		0	300
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	86	1	86		0		0	86
4. GLOVES (4 PR PER DAY PER WORKER)	1,440	2.25	3,240		0		0	3,240
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	6	20	120		0		0	120
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	2	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	12	250	3,000		0		0	3,000
9. PUMP STORAGE TANKS WEEKLY	12	0	0	4	48	25	1,200	1,200
10. COMPACTION EQUIPMENT WEEKLY	12	160	1,920	4	48	25	1,200	3,120
SUBTOTAL - PERSONNEL PROTECTION			13,563		96		2,400	15,963
TOTAL CERCLA & MISC. COSTS			22,203		874	HR	21,840	44,043

CONSTRUCTION EQUIPMENT
(RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 3G	DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	REFRIGERATION BUILDING		REV. NO.:	0

DURATION (WEEKS) 12	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	6	WK	6	127	762
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	6	WK	6	900	5,400
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	6	EA	1	EA	6	100	600
EQUIPMENT INSURANCE	NA	NA	NA	NA	50	27	1,350
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	8	WK	8	215	1,720
PICK UP TRUCKS	1	EA	12	WK	12	90	1,080
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	32	5	160
SERVICE TRUCK & EQUIP.	1	EA	12	WK	12	145	1,740
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	6	WK	6	300	1,800
SCISSOR LIFTS/BUCK HOISTS	1	EA	6	WK	6	230	1,380
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	1	EA	1	EA	1	2,750	2,750
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.3	TN	1	EA	0.3	9,000	2,700
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	1	EA	12	WK	12	100	1,200
FUEL	NA	NA	NA	NA	50	50	2,500
REPAIRS & MAINTENANCE	NA	NA	NA	NA	51	5	255
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		26,547	1,460
CONSTRUCTION EQUIPMENT TOTAL							28,007

PROJECT NO.:	WMCO 2940.403	SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	PRINT DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	REFRIGERATION BUILDING	REV. NO.:	0

DECONTAMINATION

STRUCTURE 3G

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	6	EA	25	150	8	48	35	280	1,680	0	0	305	1,830
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	1	EA	10	10	10	10	35	350	350	0	0	360	360
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				360		458			16,030		500		16,890

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	2.77	EA	2,900	8,032	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	8,032
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	1.92	EA	700	1,341	0.00	0.00	25.19	0.00	0.00	0.00	0	700	1,341
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	2.50	EA	35	88	0.00	0.00	25.19	0.00	0.00	0.00	0	35	88
TOTAL				9,460		0			0		0		9,460

ASSUMPTIONS & INPUTS	
# OF WORKERS	6
# OF WEEKS	12
PERCENT PPE	3.00%
COMPONENT NUMBER	STRUCTURE 3G
COMP DESIGNATION	REFRIGERATION
MATERIAL $	3835
LABOR $	61356
PRODUCTIVITY	16.20%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 4A

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	GREEN SALT PLANT	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	280,448	3,995,535	1,196,892	5,482,875
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			280,448	3,995,535	1,196,892	5,482,875
D & D ENVIRONMENTAL MONITORING						183,676
PAINTING ABATE. OF TRANSITE		79,000 sq/ft 0.05 / 0.3	3,950	23,700	0	27,650
HAZARD MAT. PRODUCTIVITY		342.0%	0	13,664,730	0	13,664,730
JOB CONDITION FACTORS		16.25%	0	2,873,644	0	2,873,644
INDIRECTS		20.0%	0	4,111,522	0	4,111,522
HEALTH PHYSICS		20.0%	0	2,200,880	0	2,200,880
SUBTOTAL			284,398	26,870,011	1,196,892	28,544,978
CERCLA			2,276,288	464,400	0	2,740,688
BOND		1.0%	2,944	273,344	11,969	288,257
GC MARK-UP ON SUBS		5.0% OF $2,193,000	0	0	109,650	109,650
GEN CONTRACTOR OH & P		20.0%	59,468	5,428,671	263,702	5,751,842
SUBTOTAL			2,633,098	33,036,426	1,582,213	37,435,414
CONSTR. MGMT.		16.0%				5,989,666
SUBTOTAL						43,425,080
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				3,474,006
ENGINEERING		9.0% Title I & II	3,369,187	Title III 1.0%	374,354	3,743,541
SUBTOTAL						50,642,628
SALES TAX		5.5%				15,975
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	345,314	DECON/CLEANING	25,950	371,264
SUBTOTAL						51,029,867
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						51,029,867
CONTINGENCY				40.0%		20,411,947
TOTAL COST						71,441,813

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 4A		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	GREEN SALT PLANT			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	120	0	0	72	8,640	25	216,000	216,000
2. MEDICAL EXAM (ENTY/EXIT)	240	500	120,000	8	1,920	25	48,000	168,000
3. BIOASSAY TESTING (2 HRS PER YEAR)	120	0	0	6	720	25	18,000	18,000
4. ANNUAL MED. EXAMS. ($500 EA)	120	1,000	120,000	16	1,920	25	48,000	168,000
5. ANNUAL 8 HR REFRESHER TRAINING	120	0	0	16	1,920	25	48,000	48,000
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	24,000	24,000	2,256	2,256	25	56,400	80,400
SUBTOTAL - CERCLA			264,000		17,376		434,400	698,400
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	12,000	85	1,020,000		0		0	1,020,000
2. MSA MASKS (2 EA PER WORKER PER YEAR)	600	25	15,000		0		0	15,000
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	216,000	1	216,000		0		0	216,000
4. GLOVES (4 PR PER DAY PER WORKER)	300,000	2.25	675,000		0		0	675,000
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	1200	20	24,000		0		0	24,000
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	23	35	788		0		0	788
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	454	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	150	250	37,500		0		0	37,500
9. PUMP STORAGE TANKS WEEKLY	150	0	0	4	600	25	15,000	15,000
10. COMPACTION EQUIPMENT WEEKLY	150	160	24,000	4	600	25	15,000	39,000
SUBTOTAL - PERSONNEL PROTECTION			2,012,288		1,200		30,000	2,042,288
TOTAL CERCLA & MISC. COSTS			2,276,288		18,576	HR	464,400	2,740,688

CONSTRUCTION EQUIPMENT
(RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 4A		DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	GREEN SALT PLANT			REV. NO.:	0

DURATION (WEEKS) 150	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	2	EA	100	WK	200	127	25,400
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	2	EA	100	WK	200	900	180,000
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	2	EA	75	WK	150	2,100	315,000
CONCRETE SAWS	1	EA	10	WK	10	190	1,900
CONCRETE SAW BLADES	20	EA	1	EA	20	100	2,000
EQUIPMENT INSURANCE	NA	NA	NA	NA	1611	27	43,497
FLT. BD. DUMP TRUCK W/WD BED	1	EA	100	WK	100	180	18,000
FLT. BD. DUMP TRUCK W/STL BED	1	EA	100	WK	100	215	21,500
EARTH & RUBBLE DUMP TRUCKS	1	EA	100	WK	100	215	21,500
PICK UP TRUCKS	2	EA	150	WK	300	90	27,000
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	750	5	3,750
SERVICE TRUCK & EQUIP.	1	EA	150	WK	150	145	21,750
WATER TANK TRUCK	1	EA	15	WK	15	200	3,000
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	38	WK	38	370	14,060
COMPACTORS HAND - WALK	1	EA	8	WK	8	145	1,160
FORK LIFTS	2	EA	75	WK	150	300	45,000
SCISSOR LIFTS/BUCK HOISTS	1	EA	75	WK	75	230	17,250
JLG MARKLIFT 30" x 48"	1	EA	75	WK	75	350	26,250
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	150	WK	150	580	87,000
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	6	EA	1	EA	6	2,750	16,500
PORTABLE HEPA FILTER UNIT 4,000 CFM	10	EA	1	EA	10	5,500	55,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	8	TN	1	EA	8	9,000	72,000
WELDING & CUTTING EQUIP.	5	EA	1	EA	5	350	1,750
PORTABLE GENERATORS	2	EA	38	WK	76	40	3,040
AIR COMPR. W/EQUIP. 250 CFM	2	EA	2	WK	4	220	880
CONST. STORAGE, SHOPS & FACILITIES	1	EA	150	WK	150	100	15,000
FUEL	NA	NA	NA	NA	1701	50	85,050
REPAIRS & MAINTENANCE	NA	NA	NA	NA	1704	5	8,520
SCABBLE MACHINE (FLOOR)	1	EA	2	WK	2	800	1,600
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	0	NA		1,134,495	62,397
CONSTRUCTION EQUIPMENT TOTAL							1,196,892

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 4A		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	GREEN SALT PLANT			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	18	EA	25	450	8	144	35	280	5,040	0	0	305	5,490
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	16	EA	10	160	10	160	35	350	5,600	0	0	360	5,760
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				810		704			24,840		500		25,950

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	90.17	EA	2,900	261,506	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	261,506
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	96.30	EA	700	67,410	0.00	0.00	25.19	0.00	0.00	0.00	0	700	67,410
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	468.53	EA	35	16,399	0.00	0.00	25.19	0.00	0.00	0.00	0	35	16,399
TOTAL				345,314		0			0		0		345,314

ASSUMPTIONS & INPUTS	
# OF WORKERS	100
# OF WEEKS	150
PERCENT PPE	36.00%
COMPONENT NUMBER	STRUCTURE 4A
COMP DESIGNATION	GREEN SALT PL
MATERIAL $	290448
LABOR $	3995535
PRODUCTIVITY	342.0%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 4C

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	PLANT 4 MAINTENANCE BUILDING	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	8,988	141,418	72,031	222,437
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			8,988	141,418	72,031	222,437
D & D ENVIRONMENTAL MONITORING						7,452
PAINTING ABATE. OF TRANSITE		8,700 sq/ft 0.05 / 0.3	435	2,610	0	3,045
HAZARD MAT. PRODUCTIVITY		16.2%	0	22,910	0	22,910
JOB CONDITION FACTORS		16.25%	0	27,127	0	27,127
INDIRECTS		20.0%	0	38,813	0	38,813
HEALTH PHYSICS		20.0%	0	41,994	0	41,994
SUBTOTAL			9,423	274,872	72,031	363,778
CERCLA			38,713	29,920	0	68,633
BOND		1.0%	94	3,048	720	3,862
GC MARK-UP ON SUBS		5.0% OF $89,000	0	0	4,450	4,450
GEN CONTRACTOR OH & P		20.0%	1,903	55,584	15,440	72,928
SUBTOTAL			50,133	363,424	92,642	513,660
CONSTR. MGMT.		16.0%				82,184
SUBTOTAL						595,835
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				47,667
ENGINEERING		9.0% Title I & II	46,229	Title III 1.0%	5,137	51,365
SUBTOTAL						694,866
SALES TAX		5.5%				494
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	22,497	DECON/CLEANING	18,220	40,717
SUBTOTAL						736,077
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						736,077
CONTINGENCY				40.0%		294,431
TOTAL COST						1,030,508

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 4C	PRINT DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PLANT 4 MAINTENANCE BUILDING		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	10	0	0	72	691	25	17,280	17,280
2. MEDICAL EXAM (ENTY/EXIT)	19	500	9,600	8	154	25	3,840	13,440
3. BIOASSAY TESTING (2 HRS PER YEAR)	10	0	0	2	19	25	480	480
4. ANNUAL MED. EXAMS. ($500 EA)	10	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	10	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,920	1,920	173	173	25	4,320	6,240
SUBTOTAL - CERCLA			11,520		1,037		25,920	37,440
PERSONNEL PROTECTION (6 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	128	85	10,880		0		0	10,880
2. MSA MASKS (2 EA PER WORKER PER YEAR)	16	25	400		0		0	400
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	192	1	192		0		0	192
4. GLOVES (4 PR PER DAY PER WORKER)	3,200	2.25	7,200		0		0	7,200
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	16	20	320		0		0	320
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	1		0		0	1
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	4	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	20	250	5,000		0		0	5,000
9. PUMP STORAGE TANKS WEEKLY	20	0	0	4	80	25	2,000	2,000
10. COMPACTION EQUIPMENT WEEKLY	20	160	3,200	4	80	25	2,000	5,200
SUBTOTAL - PERSONNEL PROTECTION			27,193		160		4,000	31,193
TOTAL CERCLA & MISC. COSTS			38,713		1,197	HR	29,920	68,633

CONSTRUCTION EQUIPMENT
(RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 4C	DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PLANT 4 MAINTENANCE BUILDING		REV. NO.:	0

DURATION (WEEKS) 20	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	13	WK	13	127	1,651
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	13	WK	13	900	11,700
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	100	27	2,700
FLT. BD. DUMP TRUCK W/WD BED	1	EA	13	WK	13	180	2,340
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	10	WK	10	215	2,150
PICK UP TRUCKS	1	EA	20	WK	20	90	1,800
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	63	5	315
SERVICE TRUCK & EQUIP.	1	EA	20	WK	20	145	2,900
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	7	WK	7	300	2,100
SCISSOR LIFTS/BUCK HOISTS	1	EA	7	WK	7	230	1,610
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	10	WK	10	580	5,800
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	2	EA	1	EA	2	2,750	5,500
PORTABLE HEPA FILTER UNIT 4,000 CFM	1	EA	1	EA	1	5,500	5,500
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	1.25	TN	1	EA	1.25	9,000	11,250
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	1	EA	10	WK	10	40	400
AIR COMPR. W/EQUIP. 250 CFM	1	EA	2	WK	2	220	440
CONST. STORAGE, SHOPS & FACILITIES	1	EA	20	WK	20	100	2,000
FUEL	NA	NA	NA	NA	112	50	5,600
REPAIRS & MAINTENANCE	NA	NA	NA	NA	114	5	570
SCABBLE MACHINE (FLOOR)	1	EA	2	WK	2	800	1,600
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		68,276	3,755
CONSTRUCTION EQUIPMENT TOTAL							72,031

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 4C		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	PLANT 4 MAINTENANCE BUILDING			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	8	EA	25	200	8	64	35	280	2,240	0	0	305	2,440
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	3	EA	10	30	10	30	35	350	1,050	0	0	380	1,080
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				430		494			17,290		500		18,220

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	5.87	EA	2,900	17,013	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	17,013
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	7.61	EA	700	5,326	0.00	0.00	25.19	0.00	0.00	0.00	0	700	5,326
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	4.52	EA	35	158	0.00	0.00	25.19	0.00	0.00	0.00	0	35	158
TOTAL				22,497		0			0		0		22,497

ASSUMPTIONS & INPUTS	
# OF WORKERS	8
# OF WEEKS	20
PERCENT PPE	3.00%
COMPONENT NUMBER	STRUCTURE 4C
COMP DESIGNATION	PLANT 4 MAINT
MATERIAL $	8988
LABOR $	141418
PRODUCTIVITY	16.20%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 7A

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	PLANT 7	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	230,242	1,650,258	409,935	2,290,435
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			230,242	1,650,258	409,935	2,290,435
D & D ENVIRONMENTAL MONITORING						76,730
PAINTING ABATE. OF TRANSITE		20,800 sq/ft 0.05 / 0.3	1,040	6,240	0	7,280
HAZARD MAT. PRODUCTIVITY		161.5%	0	2,665,167	0	2,665,167
JOB CONDITION FACTORS		16.25%	0	702,271	0	702,271
INDIRECTS		20.0%	0	1,004,787	0	1,004,787
HEALTH PHYSICS		20.0%	0	672,711	0	672,711
SUBTOTAL			231,282	6,701,433	409,935	7,419,980
CERCLA			651,840	294,800	0	946,740
BOND		1.0%	2,313	69,962	4,099	76,375
GC MARK-UP ON SUBS		5.0% OF $916,000	0	0	45,800	45,800
GEN CONTRACTOR OH & P		20.0%	46,719	1,354,279	91,967	1,492,965
SUBTOTAL			932,253	8,420,475	551,801	9,981,259
CONSTR. MGMT.		16.0%				1,597,001
SUBTOTAL						11,578,260
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				926,261
ENGINEERING		9.0% Title I & II	898,313	Title III 1.000%	99,813	998,126
SUBTOTAL						13,502,647
SALES TAX		5.5%				12,663
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	138,883	DECON/CLEANING	24,010	162,893
SUBTOTAL						13,678,203
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						13,678,203
CONTINGENCY				40.0%		5,471,281
TOTAL COST						19,149,484

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 7A	PRINT DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PLANT 7		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	90	0	0	72	6,480	25	162,000	162,000
2. MEDICAL EXAM (ENTY/EXIT)	180	500	90,000	8	1,440	25	36,000	126,000
3. BIOASSAY TESTING (2 HRS PER YEAR)	90	0	0	4	360	25	9,000	9,000
4. ANNUAL MED. EXAMS. ($500 EA)	90	500	45,000	8	720	25	18,000	63,000
5. ANNUAL 8 HR REFRESHER TRAINING	90	0	0	8	720	25	18,000	18,000
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	18,000	18,000	1,656	1,656	25	41,400	59,400
SUBTOTAL - CERCLA			153,000		11,376		284,400	437,400
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	3,120	85	265,200		0		0	265,200
2. MSA MASKS (2 EA PER WORKER PER YEAR)	300	25	7,500		0		0	7,500
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	21,840	1	21,840		0		0	21,840
4. GLOVES (4 PR PER DAY PER WORKER)	78,000	2.25	175,500		0		0	175,500
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	375	20	7,500		0		0	7,500
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	2	35	80		0		0	80
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	99	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	52	250	13,000		0		0	13,000
9. PUMP STORAGE TANKS WEEKLY	52	0	0	4	208	25	5,200	5,200
10. COMPACTION EQUIPMENT WEEKLY	52	160	8,320	4	208	25	5,200	13,520
SUBTOTAL - PERSONNEL PROTECTION			498,940		416		10,400	509,340
TOTAL CERCLA & MISC. COSTS			651,940		11,792	HR	294,800	946,740

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 7A	DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PLANT 7		REV. NO.:	0

DURATION (WEEKS) 52	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	35	WK	35	127	4,445
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	40	WK	40	900	36,000
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	2	EA	35	WK	70	2,100	147,000
CONCRETE SAWS	1	EA	10	WK	10	190	1,900
CONCRETE SAW BLADES	6	EA	1	EA	6	100	600
EQUIPMENT INSURANCE	NA	NA	NA	NA	388	27	10,476
FLT. BD. DUMP TRUCK W/WD BED	1	EA	35	WK	35	180	6,300
FLT. BD. DUMP TRUCK W/STL BED	1	EA	35	WK	35	215	7,525
EARTH & RUBBLE DUMP TRUCKS	1	EA	26	WK	26	215	5,590
PICK UP TRUCKS	1	EA	52	WK	52	90	4,680
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	200	5	1,000
SERVICE TRUCK & EQUIP.	1	EA	52	WK	52	145	7,540
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	16	WK	16	370	5,920
COMPACTORS HAND - WALK	1	EA	3	WK	3	145	435
FORK LIFTS	1	EA	3	WK	3	300	900
SCISSOR LIFTS/BUCK HOISTS	1	EA	13	WK	13	230	2,990
JLG MARKLIFT 30" x 48"	1	EA	13	WK	13	350	4,550
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	1	EA	30	WK	30	450	13,500
PORTABLE HEPA FILTER UNIT 1,000 CFM	7	EA	1	EA	7	2,750	19,250
PORTABLE HEPA FILTER UNIT 4,000 CFM	7	EA	1	EA	7	5,500	38,500
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	4	TN	1	EA	4	9,000	36,000
WELDING & CUTTING EQUIP.	3	EA	1	EA	3	350	1,050
PORTABLE GENERATORS	1	EA	26	WK	26	40	1,040
AIR COMPR. W/EQUIP. 250 CFM	1	EA	4	WK	4	220	880
CONST. STORAGE, SHOPS & FACILITIES	1	EA	52	WK	52	100	5,200
FUEL	NA	NA	NA	NA	428	50	21,400
REPAIRS & MAINTENANCE	NA	NA	NA	NA	431	5	2,155
SCABBLE MACHINE (FLOOR)	1	EA	2	WK	2	800	1,600
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	NA	NA		388,564	21,371
CONSTRUCTION EQUIPMENT TOTAL							409,935

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 7A		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	PLANT 7			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MAT'L COST	LABOR MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	CONST. EQUIP. UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	14	EA	25	350	8	112	35	280	3,920	0	0	305	4,270
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	14	EA	10	140	10	140	35	350	4,900	0	0	360	5,040
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				690		652			22,820		500		24,010

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MAT'L COST	LABOR MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	CONST. EQUIP. UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	29.22	EA	2,900	84,727	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	84,727
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	66.44	EA	700	46,507	0.00	0.00	25.19	0.00	0.00	0.00	0	700	46,507
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	218.52	EA	35	7,648	0.00	0.00	25.19	0.00	0.00	0.00	0	35	7,648
TOTAL				138,883		0			0		0		138,883

ASSUMPTIONS	
# OF WORKERS	75
# OF WEEKS	52
PERCENT PPE	14.00%
COMPONENT NUMBER	STRUCTURE 7A
COMP DESIGNATION	PLANT 7
MATERIAL $	230242
LABOR $	1650258
PRODUCTIVITY	161.50%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 10D

PROJECT NO.:	WMCO 2840.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	CONT. OIL/GRAPHITE BURN PAD	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	7,418	104,268	62,181	173,867
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			7,418	104,268	62,181	173,867
D & D ENVIRONMENTAL MONITORING						5,825
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		25.7%	0	26,797	0	26,797
JOB CONDITION FACTORS		16.25%	0	21,298	0	21,298
INDIRECTS		20.0%	0	30,473	0	30,473
HEALTH PHYSICS		20.0%	0	31,208	0	31,208
SUBTOTAL			7,418	214,043	62,181	289,466
CERCLA			31,133	23,440	0	54,573
BOND		1.0%	74	2,375	622	3,071
GC MARK-UP ON SUBS		5.0% OF $70,000	0	0	3,500	3,500
GEN CONTRACTOR OH & P		20.0%	1,498	43,284	13,260	58,043
SUBTOTAL			40,123	283,142	79,563	408,652
CONSTR. MGMT.		16.0%				65,384
SUBTOTAL						474,037
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				37,923
ENGINEERING		9.0% Title I & II	36,779	Title III 1.0%	4,087	40,865
SUBTOTAL						552,825
SALES TAX		5.5%				408
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	5,878	DECON/CLEANING	2,855	8,733
SUBTOTAL						561,966
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						561,966
CONTINGENCY				40.0%		224,786
TOTAL COST						786,752

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2840.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 10D	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	CONT. OIL/GRAPHITE BURN PAD		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	7	0	0	72	518	25	12,960	12,960
2. MEDICAL EXAM (ENTY/EXIT)	14	500	7,200	8	115	25	2,880	10,080
3. BIOASSAY TESTING (2 HRS PER YEAR)	7	0	0	2	14	25	360	360
4. ANNUAL MED. EXAMS. ($500 EA)	7	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	7	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,440	1,440	130	130	25	3,240	4,680
SUBTOTAL - CERCLA			8,640		778		19,440	28,080
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	96	85	8,160		0		0	8,160
2. MSA MASKS (2 EA PER WORKER PER YEAR)	12	25	300		0		0	300
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	192	1	192		0		0	192
4. GLOVES (4 PR PER DAY PER WORKER)	2,400	2.25	5,400		0		0	5,400
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	12	20	240		0		0	240
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	1		0		0	1
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	3	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	20	250	5,000		0		0	5,000
9. PUMP STORAGE TANKS WEEKLY	20	0	0	4	80	25	2,000	2,000
10. COMPACTION EQUIPMENT WEEKLY	20	160	3,200	4	80	25	2,000	5,200
SUBTOTAL - PERSONNEL PROTECTION			22,493		160		4,000	26,493
TOTAL CERCLA & MISC. COSTS			31,133		938	HR	23,440	54,573

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2840.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 10D	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	CONT. OIL/GRAPHITE BURN PAD		REV. NO.:	0

DURATION (WEEKS) 20	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	0	EA	0	WK	0	127	0
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	0	EA	0	WK	0	900	0
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	1	EA	3	WK	3	190	570
CONCRETE SAW BLADES	3	EA	1	EA	3	100	300
EQUIPMENT INSURANCE	NA	NA	NA	NA	105	27	2,835
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	13	WK	13	215	2,795
PICK UP TRUCKS	1	EA	20	WK	20	90	1,800
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	53	5	265
SERVICE TRUCK & EQUIP.	1	EA	20	WK	20	145	2,900
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	1	EA	8	WK	8	818	6,544
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	1	EA	8	WK	8	145	1,160
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	1	EA	18	WK	18	680	12,240
WHEEL MTD FRONT END LOADER	1	EA	18	WK	18	580	10,440
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	1	EA	1	EA	1	2,750	2,750
PORTABLE HEPA FILTER UNIT 4,000 CFM	1	EA	1	EA	1	5,500	5,500
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.1	TN	1	EA	0.1	9,000	900
WELDING & CUTTING EQUIP.	0	EA	1	EA	0	350	0
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	0	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	1	EA	20	WK	20	100	2,000
FUEL	NA	NA	NA	NA	108	50	5,400
REPAIRS & MAINTENANCE	NA	NA	NA	NA	108	5	540
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		58,939	3,242
CONSTRUCTION EQUIPMENT TOTAL							62,181

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION	SHEET: 3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 10D	PRINT DATE: 17-May-93
CLIENT:	WEMCO		ANALYSIS BY: DCP
LOCATION:	FEMP		CHKD. BY:
STRUCTURE:	CONT. OIL/GRAPHITE BURN PAD		REV. NO.: 0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	7	EA	25	175	8	56	35	280	1,960	0	0	305	2,135
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	0	LS	200	0	400	0	35	14,000	0	500	0	14,700	0
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	2	EA	10	20	10	20	35	350	700	0	0	360	720
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				195		76			2,660		0		2,855

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.05	EA	2,900	159	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	159
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	7.55	EA	700	5,287	0.00	0.00	25.19	0.00	0.00	0.00	0	700	5,287
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	12.35	EA	35	432	0.00	0.00	25.19	0.00	0.00	0.00	0	35	432
TOTAL				5,878		0			0		0		5,878

ASSUMPTIONS & INPUTS & INPUTS	
# OF WORKERS	6
# OF WEEKS	20
PERCENT PPE	4.00%
COMPONENT NUMBER	STRUCTURE 10
COMP DESIGNATION	CONT. OIL/GRAP
MATERIAL $	7418
LABOR $	104268
PRODUCTIVITY	25.7%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 13B

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	PILOT PLANT MAINTENANCE BUILDING	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	9,348	73,649	52,087	135,084
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			9,348	73,649	52,087	135,084
D & D ENVIRONMENTAL MONITORING						4,525
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		10.7%	0	7,880	0	7,880
JOB CONDITION FACTORS		16.25%	0	13,249	0	13,249
INDIRECTS		20.0%	0	18,956	0	18,956
HEALTH PHYSICS		20.0%	0	21,171	0	21,171
SUBTOTAL			9,348	134,904	52,087	200,865
CERCLA			22,203	21,840	0	44,043
BOND		1.0%	93	1,567	521	2,182
GC MARK-UP ON SUBS		5.0% OF $54,000	0	0	2,700	2,700
GEN CONTRACTOR OH & P		20.0%	1,888	27,294	11,062	40,244
SUBTOTAL			33,532	185,606	66,369	290,033
CONSTR. MGMT.		16.0%				46,405
SUBTOTAL						336,439
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				26,915
ENGINEERING		9.0% Title I & II	26,103	Title III 1.0%	2,900	29,003
SUBTOTAL						392,357
SALES TAX		5.5%				514
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	12,566	DECON/CLEANING	19,910	32,476
SUBTOTAL						425,347
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						425,347
CONTINGENCY				40.0%		170,139
TOTAL COST						595,486

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13B	PRINT DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PILOT PLANT MAINTENANCE BUILDING		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	7	0	0	72	518	25	12,960	12,960
2. MEDICAL EXAM (ENTY/EXIT)	14	500	7,200	8	115	25	2,880	10,080
3. BIOASSAY TESTING (2 HRS PER YEAR)	7	0	0	2	14	25	360	360
4. ANNUAL MED. EXAMS. ($500 EA)	7	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	7	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,440	1,440	130	130	25	3,240	4,680
SUBTOTAL - CERCLA			8,640		778		19,440	28,080
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	58	85	4,896		0		0	4,896
2. MSA MASKS (2 EA PER WORKER PER YEAR)	12	25	300		0		0	300
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	86	1	86		0		0	86
4. GLOVES (4 PR PER DAY PER WORKER)	1,440	2.25	3,240		0		0	3,240
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	6	20	120		0		0	120
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	2	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	12	250	3,000		0		0	3,000
9. PUMP STORAGE TANKS WEEKLY	12	0	0	4	48	25	1,200	1,200
10. COMPACTION EQUIPMENT WEEKLY	12	160	1,920	4	48	25	1,200	3,120
SUBTOTAL - PERSONNEL PROTECTION			13,563		96		2,400	15,963
TOTAL CERCLA & MISC. COSTS			22,203		874	HR	21,840	44,043

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13B	DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PILOT PLANT MAINTENANCE BUILDING		REV. NO.:	0

DURATION (WEEKS) 12	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	8	WK	8	127	1,016
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	6	WK	6	900	5,400
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	64	27	1,728
FLT. BD. DUMP TRUCK W/WD BED	1	EA	8	WK	8	180	1,440
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	8	WK	8	215	1,720
PICK UP TRUCKS	1	EA	12	WK	12	90	1,080
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	40	5	200
SERVICE TRUCK & EQUIP.	1	EA	12	WK	12	145	1,740
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	4	WK	4	370	1,480
COMPACTORS HAND - WALK	1	EA	2	WK	2	145	290
FORK LIFTS	1	EA	2	WK	2	300	600
SCISSOR LIFTS/BUCK HOISTS	1	EA	4	WK	4	230	920
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	6	WK	6	580	3,480
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	4	EA	1	EA	4	2,750	11,000
PORTABLE HEPA FILTER UNIT 4,000 CFM	2	EA	1	EA	2	5,500	11,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.3	TN	1	EA	0.3	9,000	2,700
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	12	WK	12	100	1,200
FUEL	NA	NA	NA	NA	65	50	3,250
REPAIRS & MAINTENANCE	NA	NA	NA	NA	67	5	335
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0	LS	NA	NA		52,087	0
CONSTRUCTION EQUIPMENT TOTAL							62,087

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13B		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	PILOT PLANT MAINTENANCE BUILDING			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	10	EA	25	250	8	80	35	280	2,800	0	0	305	3,050
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	6	EA	10	60	10	60	35	350	2,100	0	0	360	2,160
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				510		540			18,900		500		19,910

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	1.45	EA	2,900	4,203	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	4,203
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	11.77	EA	700	8,242	0.00	0.00	25.19	0.00	0.00	0.00	0	700	8,242
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	3.46	EA	35	121	0.00	0.00	25.19	0.00	0.00	0.00	0	35	121
TOTAL				12,566		0			0		0		12,566

ASSUMPTIONS & INPUTS	
# OF WORKERS	6
# OF WEEKS	12
PERCENT PPE	3.00%
COMPONENT NUMBER	STRUCTURE 13B
COMP DESIGNATION	PILOT PLANT M
MATERIAL $	9348
LABOR $	73649
PRODUCTIVITY	10.70%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 13C

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	SUMP PUMP HOUSE	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	7,186	49,410	34,095	90,691
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			7,186	49,410	34,095	90,691
D & D ENVIRONMENTAL MONITORING						3,038
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		112.1%	0	55,389	0	55,389
JOB CONDITION FACTORS		16.25%	0	17,030	0	17,030
INDIRECTS		20.0%	0	24,366	0	24,366
HEALTH PHYSICS		20.0%	0	18,161	0	18,161
SUBTOTAL			7,186	164,355	34,095	208,675
CERCLA			27,590	22,640	0	50,230
BOND		1.0%	72	1,870	341	2,283
GC MARK-UP ON SUBS		5.0% OF $36,000	0	0	1,800	1,800
GEN CONTRACTOR OH & P		20.0%	1,452	33,245	7,247	41,944
SUBTOTAL			36,299	222,110	43,484	304,931
CONSTR. MGMT.		16.0%				48,789
SUBTOTAL						353,721
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				28,298
ENGINEERING		9.0% Title I & II	27,444	Title III 1.0%	3,049	30,493
SUBTOTAL						412,511
SALES TAX		5.5%				395
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	5,092	DECON/CLEANING	19,045	24,137
SUBTOTAL						437,044
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						437,044
CONTINGENCY				40.0%		174,818
TOTAL COST						611,862

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CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13C	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	SUMP PUMP HOUSE		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	7	0	0	72	518	25	12,960	12,960
2. MEDICAL EXAM (ENTY/EXIT)	14	500	7,200	8	115	25	2,880	10,080
3. BIOASSAY TESTING (2 HRS PER YEAR)	7	0	0	2	14	25	360	360
4. ANNUAL MED. EXAMS. ($500 EA)	7	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	7	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,440	1,440	130	130	25	3,240	4,680
SUBTOTAL - CERCLA			8,640		778		19,440	28,080
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	77	85	6,528		0		0	6,528
2. MSA MASKS (2 EA PER WORKER PER YEAR)	12	25	300		0		0	300
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	998	1	998		0		0	998
4. GLOVES (4 PR PER DAY PER WORKER)	1,920	2.25	4,320		0		0	4,320
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	12	20	240		0		0	240
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	4		0		0	4
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	3	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	16	250	4,000		0		0	4,000
9. PUMP STORAGE TANKS WEEKLY	16	0	0	4	64	25	1,600	1,600
10. COMPACTION EQUIPMENT WEEKLY	16	160	2,560	4	64	25	1,600	4,160
SUBTOTAL - PERSONNEL PROTECTION			18,950		128		3,200	22,150
TOTAL CERCLA & MISC. COSTS			27,590		906	HR	22,640	50,230

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13C	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	SUMP PUMP HOUSE		REV. NO.:	0

DURATION (WEEKS) 16	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	11	WK	11	127	1,397
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	8	WK	8	900	7,200
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	1	EA	3	WK	3	190	570
CONCRETE SAW BLADES	3	EA	1	EA	3	100	300
EQUIPMENT INSURANCE	NA	NA	NA	NA	59	27	1,593
FLT. BD. DUMP TRUCK W/WD BED	1	EA	11	WK	11	180	1,980
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	11	WK	11	215	2,365
PICK UP TRUCKS	1	EA	16	WK	16	90	1,440
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	38	5	190
SERVICE TRUCK & EQUIP.	0	EA	16	WK	0	145	0
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	8	WK	8	370	2,960
COMPACTORS HAND - WALK	1	EA	2	WK	2	145	290
FORK LIFTS	1	EA	3	WK	3	300	900
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	1	EA	1	EA	1	2,750	2,750
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.2	TN	1	EA	0.2	9,000	1,800
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	16	WK	16	100	1,600
FUEL	NA	NA	NA	NA	63	50	3,150
REPAIRS & MAINTENANCE	NA	NA	NA	NA	65	5	325
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	NA	NA		32,318	1,777
CONSTRUCTION EQUIPMENT TOTAL							34,095

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PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13C		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	SUMP PUMP HOUSE			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	7	EA	25	175	8	56	35	280	1,960	0	0	305	2,135
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	1	EA	10	10	10	10	35	350	350	0	0	360	360
5. TEMPORARY STRUCTURES	10	CSF	5	50	5	50	35	175	1,750	5	50	185	1,850
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				435		516			18,060		550		19,045

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.12	EA	2,900	339	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	339
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	6.65	EA	700	4,653	0.00	0.00	25.19	0.00	0.00	0.00	0	700	4,653
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	2.88	EA	35	101	0.00	0.00	25.19	0.00	0.00	0.00	0	35	101
TOTAL				5,092		0			0		0		5,092

ASSUMPTIONS & INPUTS	
# OF WORKERS	6
# OF WEEKS	16
PERCENT PPE	26.00%
COMPONENT NUMBER	STRUCTURE 13
COMP DESIGNATION	SUMP PUMP HO
MATERIAL $	7166
LABOR $	49410
PRODUCTIVITY	112.10%
TEMPORARY STRUCTS	10

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 13D

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	PILOT PLANT THORIUM TANK FARM	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	27,066	240,691	125,129	392,886
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			27,066	240,691	125,129	392,886
D & D ENVIRONMENTAL MONITORING						13,162
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		100.3%	0	241,413	0	241,413
JOB CONDITION FACTORS		16.25%	0	78,342	0	78,342
INDIRECTS		20.0%	0	112,089	0	112,089
HEALTH PHYSICS		20.0%	0	86,224	0	86,224
SUBTOTAL			27,066	758,760	125,129	924,116
CERCLA			54,019	42,680	0	96,699
BOND		1.0%	271	8,014	1,251	9,536
GC MARK-UP ON SUBS		5.0% OF $157,000	0	0	7,850	7,850
GEN CONTRACTOR OH & P		20.0%	5,467	153,355	26,846	185,668
SUBTOTAL			86,822	962,809	161,077	1,223,869
CONSTR. MGMT.		16.0%				195,819
SUBTOTAL						1,419,688
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				113,575
ENGINEERING		9.0% Title I & II	110,148	Title III 1.0%	12,239	122,387
SUBTOTAL						1,655,650
SALES TAX		5.5%				1,489
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	47,407	DECON/CLEANING	33,055	80,462
SUBTOTAL						1,737,601
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						1,737,601
CONTINGENCY				40.0%		695,040
TOTAL COST						2,432,641

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CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13D	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PILOT PLANT THORIUM TANK FARM		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	14	0	0	72	1,037	25	25,920	25,920
2. MEDICAL EXAM (ENTY/EXIT)	29	500	14,400	8	230	25	5,760	20,160
3. BIOASSAY TESTING (2 HRS PER YEAR)	14	0	0	2	29	25	720	720
4. ANNUAL MED. EXAMS. ($500 EA)	14	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	14	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	2,880	2,880	259	259	25	6,480	9,360
SUBTOTAL - CERCLA			17,280		1,555		38,880	56,160
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	182	85	15,504		0		0	15,504
2. MSA MASKS (2 EA PER WORKER PER YEAR)	24	25	600		0		0	600
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	2,098	1	2,098		0		0	2,098
4. GLOVES (4 PR PER DAY PER WORKER)	4,560	2.25	10,260		0		0	10,260
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	24	20	480		0		0	480
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	8		0		0	8
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	7	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	19	250	4,750		0		0	4,750
9. PUMP STORAGE TANKS WEEKLY	19	0	0	4	76	25	1,900	1,900
10. COMPACTION EQUIPMENT WEEKLY	19	160	3,040	4	76	25	1,900	4,940
SUBTOTAL - PERSONNEL PROTECTION			36,739		152		3,800	40,539
TOTAL CERCLA & MISC. COSTS			54,019		1,707	HR	42,680	96,699

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13D	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PILOT PLANT THORIUM TANK FARM		REV. NO.:	0

DURATION (WEEKS) 19	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	17	WK	17	127	2,159
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	2	EA	15	WK	30	900	27,000
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	1	EA	8	WK	8	2,100	16,800
CONCRETE SAWS	1	EA	6	WK	6	190	1,140
CONCRETE SAW BLADES	6	EA	1	EA	6	100	600
EQUIPMENT INSURANCE	NA	NA	NA	NA	160	27	4,320
FLT. BD. DUMP TRUCK W/WD BED	1	EA	13	WK	13	180	2,340
FLT. BD. DUMP TRUCK W/STL BED	1	EA	10	WK	10	215	2,150
EARTH & RUBBLE DUMP TRUCKS	1	EA	18	WK	18	215	3,870
PICK UP TRUCKS	2	EA	19	WK	38	90	3,420
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	98	5	490
SERVICE TRUCK & EQUIP.	1	EA	19	WK	19	145	2,755
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	8	WK	8	370	2,960
COMPACTORS HAND - WALK	1	EA	2	WK	2	145	290
FORK LIFTS	1	EA	4	WK	4	300	1,200
SCISSOR LIFTS/BUCK HOISTS	1	EA	10	WK	10	230	2,300
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	2	EA	1	EA	2	2,750	5,500
PORTABLE HEPA FILTER UNIT 4,000 CFM	2	EA	1	EA	2	5,500	11,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	1.5	TN	1	EA	1.5	9,000	13,500
WELDING & CUTTING EQUIP.	3	EA	1	EA	3	350	1,050
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	2	WK	2	220	440
CONST. STORAGE, SHOPS & FACILITIES	1	EA	19	WK	19	100	1,900
FUEL	NA	NA	NA	NA	168	50	8,400
REPAIRS & MAINTENANCE	NA	NA	NA	NA	174	5	870
SCABBLE MACHINE (FLOOR)	1	EA	2	WK	2	800	1,600
SCABBLE MACHINE (HAND)	2	EA	2	WK	4	138	552
SALES TAX 5.50%	0.055	LS	NA	NA		118,606	6,523
CONSTRUCTION EQUIPMENT TOTAL							125,129

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 13D		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	PILOT PLANT THORIUM TANK FARM			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	13	EA	25	325	8	104	35	280	3,640	0	0	305	3,965
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	4	EA	10	40	10	40	35	350	1,400	0	0	360	1,440
5. TEMPORARY STRUCTURES	70	CSF	5	350	5	350	35	175	12,250	5	350	185	12,950
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				915		894			31,290		850		33,055

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	3.55	EA	2,900	10,287	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	10,287
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	51.76	EA	700	36,232	0.00	0.00	25.19	0.00	0.00	0.00	0	700	36,232
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	25.38	EA	35	888	0.00	0.00	25.19	0.00	0.00	0.00	0	35	888
TOTAL				47,407		0			0		0		47,407

ASSUMPTIONS & INPUTS	
# OF WORKERS	12
# OF WEEKS	19
PERCENT PPE	23.00%
COMPONENT NUMBER	STRUCTURE 13
COMP DESIGNATION	PILOT PLANT TH
MATERIAL $	27065
LABOR $	240691
PRODUCTIVITY	100.30%
TEMPORARY STRUCTS	70

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 18K

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	LOW NITRATE TANK	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	5,554	22,669	20,465	48,688
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			5,554	22,669	20,465	48,688
D & D ENVIRONMENTAL MONITORING						1,631
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		46.4%	0	10,518	0	10,518
JOB CONDITION FACTORS		16.25%	0	5,393	0	5,393
INDIRECTS		20.0%	0	7,716	0	7,716
HEALTH PHYSICS		20.0%	0	7,156	0	7,156
SUBTOTAL			5,554	53,452	20,465	81,102
CERCLA			22,492	21,840	0	44,332
BOND		1.0%	56	753	205	1,013
GC MARK-UP ON SUBS		5.0% OF $19,000	0	0	950	950
GEN CONTRACTOR OH & P		20.0%	1,122	10,841	4,324	16,287
SUBTOTAL			29,223	86,886	25,943	143,684
CONSTR. MGMT.		16.0%				22,989
SUBTOTAL						166,673
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				13,334
ENGINEERING		9.0% Title I & II	12,932	Title III 1.0%	1,437	14,368
SUBTOTAL						194,375
SALES TAX		5.5%				305
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	4,846	DECON/CLEANING	2,440	7,286
SUBTOTAL						201,967
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						201,967
CONTINGENCY				40.0%		80,787
TOTAL COST						282,754

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 18K	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	LOW NITRATE TANK		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	7	0	0	72	518	25	12,960	12,960
2. MEDICAL EXAM (ENTY/EXIT)	14	500	7,200	8	115	25	2,880	10,080
3. BIOASSAY TESTING (2 HRS PER YEAR)	7	0	0	2	14	25	360	360
4. ANNUAL MED. EXAMS. ($500 EA)	7	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	7	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,440	1,440	130	130	25	3,240	4,680
SUBTOTAL - CERCLA			8,640		778		19,440	28,080
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	58	85	4,896		0		0	4,896
2. MSA MASKS (2 EA PER WORKER PER YEAR)	12	25	300		0		0	300
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	374	1	374		0		0	374
4. GLOVES (4 PR PER DAY PER WORKER)	1,440	2.25	3,240		0		0	3,240
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	6	20	120		0		0	120
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	1		0		0	1
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	2	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	12	250	3,000		0		0	3,000
9. PUMP STORAGE TANKS WEEKLY	12	0	0	4	48	25	1,200	1,200
10. COMPACTION EQUIPMENT WEEKLY	12	160	1,920	4	48	25	1,200	3,120
SUBTOTAL - PERSONNEL PROTECTION			13,852		96		2,400	16,252
TOTAL CERCLA & MISC. COSTS			22,492		874 HR		21,840	44,332

CONSTRUCTION EQUIPMENT
(RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 18K	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	LOW NITRATE TANK		REV. NO.:	0

DURATION (WEEKS) 12	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	7	WK	7	127	889
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	7	WK	7	900	6,300
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	43	27	1,161
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	7	WK	7	215	1,505
PICK UP TRUCKS	1	EA	12	WK	12	90	1,080
TRUCK EQUIPMENT TIRE MAINT.	3	NA	NA	NA	31	5	155
SERVICE TRUCK & EQUIP.	1	EA	12	WK	12	145	1,740
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	1	EA	1	WK	1	818	818
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	1	EA	1	WK	1	145	145
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	1	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	1	EA	3	WK	3	680	2,040
WHEEL MTD FRONT END LOADER	0	EA	3	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	TN	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	0	EA	1	EA	0	350	0
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	0	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	1	EA	12	WK	12	100	1,200
FUEL	NA	NA	NA	NA	43	50	2,150
REPAIRS & MAINTENANCE	NA	NA	NA	NA	43	5	215
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		19,398	1,067
CONSTRUCTION EQUIPMENT TOTAL							20,465

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 18K		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	LOW NITRATE TANK			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	8	EA	25	200	8	64	35	280	2,240	0	0	305	2,440
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	0	LS	200	0	400	0	35	14,000	0	500	0	14,700	0
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	0	EA	10	0	10	0	35	350	0	0	0	360	0
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				200		64			2,240		0		2,440

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.06	EA	2,900	163	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	163
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	6.41	EA	700	4,487	0.00	0.00	25.19	0.00	0.00	0.00	0	700	4,487
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	5.64	EA	35	197	0.00	0.00	25.19	0.00	0.00	0.00	0	35	197
TOTAL				4,846		0			0		0		4,846

ASSUMPTIONS & INPUTS	
# OF WORKERS	6
# OF WEEKS	12
PERCENT PPE	13.00%
COMPONENT NUMBER	STRUCTURE 18K
COMP DESIGNATION	LOW NITRATE T
MATERIAL #	5554
LABOR #	22669
PRODUCTIVITY	46.40%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 18L

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	HIGH NITRATE TANK	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	6,611	34,204	23,097	63,812
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			6,611	34,204	23,097	63,812
D & D ENVIRONMENTAL MONITORING						2,138
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		46.4%	0	15,871	0	15,871
JOB CONDITION FACTORS		16.25%	0	8,137	0	8,137
INDIRECTS		20.0%	0	11,642	0	11,642
HEALTH PHYSICS		20.0%	0	10,797	0	10,797
SUBTOTAL			6,611	80,651	23,097	112,397
CERCLA			35,998	35,000	0	70,998
BOND		1.0%	65	1,157	231	1,453
GC MARK-UP ON SUBS		5.0% OF $26,000	0	0	1,300	1,300
GEN CONTRACTOR OH & P		20.0%	1,315	16,361	4,926	22,602
SUBTOTAL			43,890	133,169	29,554	208,750
CONSTR. MGMT.		16.0%				33,400
SUBTOTAL						242,150
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				19,372
ENGINEERING		9.0% Title I & II	18,788	Title III 1.0%	2,088	20,876
SUBTOTAL						282,397
SALES TAX		5.5%				358
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	5,734	DECON/CLEANING	2,440	8,174
SUBTOTAL						290,929
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						290,929
CONTINGENCY				40.0%		116,372
TOTAL COST						407,301

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 18L	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	HIGH NITRATE TANK		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	12	0	0	72	864	25	21,600	21,600
2. MEDICAL EXAM (ENTY/EXIT)	24	500	12,000	8	192	25	4,800	16,800
3. BIOASSAY TESTING (2 HRS PER YEAR)	12	0	0	2	24	25	600	600
4. ANNUAL MED. EXAMS. ($500 EA)	12	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	12	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	2,400	2,400	216	216	25	5,400	7,800
SUBTOTAL - CERCLA			14,400		1,296		32,400	46,800
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	104	85	8,840		0		0	8,840
2. MSA MASKS (2 EA PER WORKER PER YEAR)	20	25	500		0		0	500
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	676	1	676		0		0	676
4. GLOVES (4 PR PER DAY PER WORKER)	2,600	2.25	5,850		0		0	5,850
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	20	20	400		0		0	400
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	2		0		0	2
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	4	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	13	250	3,250		0		0	3,250
9. PUMP STORAGE TANKS WEEKLY	13	0	0	4	52	25	1,300	1,300
10. COMPACTION EQUIPMENT WEEKLY	13	160	2,080	4	52	25	1,300	3,380
SUBTOTAL - PERSONNEL PROTECTION			21,598		104		2,600	24,198
TOTAL CERCLA & MISC. COSTS			35,998		1,400	HR	35,000	70,998

CONSTRUCTION EQUIPMENT
(RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 18L	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	HIGH NITRATE TANK		REV. NO.:	0

DURATION (WEEKS) 13	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	7	WK	7	127	889
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	7	WK	7	900	6,300
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	48	27	1,296
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	7	WK	7	215	1,505
PICK UP TRUCKS	1	EA	13	WK	13	90	1,170
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	33	5	165
SERVICE TRUCK & EQUIP.	1	EA	13	WK	13	145	1,885
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	1	EA	1	WK	1	818	818
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	1	EA	1	WK	1	145	145
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	1	EA	3	WK	3	680	2,040
WHEEL MTD FRONT END LOADER	1	EA	3	WK	3	580	1,740
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	TN	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	0	EA	1	EA	0	350	0
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	0	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	1	EA	13	WK	13	100	1,300
FUEL	NA	NA	NA	NA	48	50	2,400
REPAIRS & MAINTENANCE	NA	NA	NA	NA	48	5	240
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		21,893	1,204
CONSTRUCTION EQUIPMENT TOTAL							23,097

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION	SHEET: 3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 18L	PRINT DATE: 17-May-93
CLIENT:	WEMCO		ANALYSIS BY: DCP
LOCATION:	FEMP		CHKD. BY:
STRUCTURE:	HIGH NITRATE TANK		REV. NO.: 0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MAT'L COST	LABOR MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	CONST. EQUIP. UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	8	EA	25	200	8	64	35	280	2,240	0	0	305	2,440
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	0	LS	200	0	400	0	35	14,000	0	500	0	14,700	0
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	0	EA	10	0	10	0	35	350	0	0	0	360	0
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				200		64			2,240		0		2,440

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MAT'L COST	LABOR MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	CONST. EQUIP. UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.12	EA	2,900	351	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	351
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	7.34	EA	700	5,135	0.00	0.00	25.19	0.00	0.00	0.00	0	700	5,135
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	7.09	EA	35	248	0.00	0.00	25.19	0.00	0.00	0.00	0	35	248
TOTAL				5,734		0			0		0		5,734

ASSUMPTIONS & INPUTS	
# OF WORKERS	10
# OF WEEKS	13
PERCENT PPE	13.00%
COMPONENT NUMBER	STRUCTURE 18L
COMP DESIGNATION	HIGH NITRATE T
MATERIAL $	6511
LABOR $	34204
PRODUCTIVITY	46.40%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 32A

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	MAGNESIUM STORAGE BUILDING	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	12,816	192,037	99,236	304,089
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			12,816	192,037	99,236	304,089
D & D ENVIRONMENTAL MONITORING						10,187
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		10.7%	0	20,548	0	20,548
JOB CONDITION FACTORS		16.25%	0	34,545	0	34,545
INDIRECTS		20.0%	0	49,426	0	49,426
HEALTH PHYSICS		20.0%	0	55,202	0	55,202
SUBTOTAL			12,816	351,758	99,236	473,897
CERCLA			46,341	36,400	0	82,741
BOND		1.0%	128	3,882	992	5,002
GC MARK-UP ON SUBS		5.0% OF $122,000	0	0	6,100	6,100
GEN CONTRACTOR OH & P		20.0%	2,589	71,128	21,266	94,982
SUBTOTAL			61,874	463,167	127,595	662,823
CONSTR. MGMT.		16.0%				106,052
SUBTOTAL						768,874
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				61,510
ENGINEERING		9.0% Title I & II	59,654	Title III 1.0%	6,628	66,282
SUBTOTAL						896,666
SALES TAX		5.5%				705
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	58,624	DECON/CLEANING	19,910	78,534
SUBTOTAL						975,905
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						975,905
CONTINGENCY				40.0%		390,362
TOTAL COST						1,366,267

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2840.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 32A		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	MAGNESIUM STORAGE BUILDING			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	12	0	0	72	864	25	21,600	21,600
2. MEDICAL EXAM (ENTY/EXIT)	24	500	12,000	8	192	25	4,800	16,800
3. BIOASSAY TESTING (2 HRS PER YEAR)	12	0	0	2	24	25	600	600
4. ANNUAL MED. EXAMS. ($500 EA)	12	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	12	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	2,400	2,400	216	216	25	5,400	7,800
SUBTOTAL - CERCLA			14,400		1,296		32,400	46,800
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	160	85	13,600		0		0	13,600
2. MSA MASKS (2 EA PER WORKER PER YEAR)	20	25	500		0		0	500
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	240	1	240		0		0	240
4. GLOVES (4 PR PER DAY PER WORKER)	4,000	2.25	9,000		0		0	9,000
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	20	20	400		0		0	400
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	1		0		0	1
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	5	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	20	250	5,000		0		0	5,000
9. PUMP STORAGE TANKS WEEKLY	20	0	0	4	80	25	2,000	2,000
10. COMPACTION EQUIPMENT WEEKLY	20	160	3,200	4	80	25	2,000	5,200
SUBTOTAL - PERSONNEL PROTECTION			31,941		160		4,000	35,941
TOTAL CERCLA & MISC. COSTS			46,341		1,456	HR	36,400	82,741

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2840.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 32A		DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	MAGNESIUM STORAGE BUILDING			REV. NO.:	0

DURATION (WEEKS) 20	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	13	WK	13	127	1,651
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	15	WK	15	900	13,500
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	1	EA	12	WK	12	190	2,280
CONCRETE SAW BLADES	8	EA	1	EA	8	100	800
EQUIPMENT INSURANCE	NA	NA	NA	NA	142	27	3,834
FLT. BD. DUMP TRUCK W/WD BED	1	EA	15	WK	15	180	2,700
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	15	WK	15	215	3,225
PICK UP TRUCKS	1	EA	20	WK	20	90	1,800
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	70	5	350
SERVICE TRUCK & EQUIP.	1	EA	20	WK	20	145	2,900
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	12	WK	12	370	4,440
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	10	WK	10	300	3,000
SCISSOR LIFTS/BUCK HOISTS	1	EA	13	WK	13	230	2,990
JLG MARKLIFT 30" x 48"	1	EA	7	WK	7	350	2,450
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	15	WK	15	580	8,700
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	4	EA	1	EA	4	2,750	11,000
PORTABLE HEPA FILTER UNIT 4,000 CFM	2	EA	1	EA	2	5,500	11,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.6	TN	1	EA	0.6	9,000	5,400
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	20	WK	20	100	2,000
FUEL	NA	NA	NA	NA	155	50	7,750
REPAIRS & MAINTENANCE	NA	NA	NA	NA	157	5	785
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	NA	NA		94,063	5,173
CONSTRUCTION EQUIPMENT TOTAL							99,236

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 32A		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	MAGNESIUM STORAGE BUILDING			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	10	EA	25	250	8	80	35	280	2,800	0	0	305	3,050
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	6	EA	10	60	10	60	35	350	2,100	0	0	360	2,160
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				510		540			18,900		500		19,910

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.81	EA	2,900	2,354	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	2,354
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	79.99	EA	700	55,990	0.00	0.00	25.19	0.00	0.00	0.00	0	700	55,990
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	7.99	EA	35	280	0.00	0.00	25.19	0.00	0.00	0.00	0	35	280
TOTAL				58,624		0			0		0		58,624

ASSUMPTIONS & INPUTS	
# OF WORKERS	10
# OF WEEKS	20
PERCENT PPE	3.00%
COMPONENT NUMBER	STRUCTURE 32
COMP DESIGNATION	MAGNESIUM ST
MATERIAL #	12816
LABOR #	192037
PRODUCTIVITY	10.70%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 32B

PROJECT NO.:	WMCO 2840.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	BUILDING 32 COVERED LOADING DOCK	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	802	13,092	7,620	21,514
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			802	13,092	7,620	21,514
D & D ENVIRONMENTAL MONITORING						721
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		5.0%	0	655	0	655
JOB CONDITION FACTORS		16.25%	0	2,234	0	2,234
INDIRECTS		20.0%	0	3,196	0	3,196
HEALTH PHYSICS		20.0%	0	3,704	0	3,704
SUBTOTAL			802	22,881	7,620	32,024
CERCLA			8,626	13,560	0	22,186
BOND		1.0%	8	364	76	449
GC MARK-UP ON SUBS		5.0% OF $9,000	0	0	450	450
GEN CONTRACTOR OH & P		20.0%	162	4,649	1,629	6,440
SUBTOTAL			9,598	41,454	9,776	61,649
CONSTR. MGMT.		16.0%				9,848
SUBTOTAL						71,397
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				5,712
ENGINEERING		9.0% Title I & II	5,539	Title III 1.0%	615	6,155
SUBTOTAL						83,263
SALES TAX		5.5%				44
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	1,285	DECON/CLEANING	15,920	17,205
SUBTOTAL						100,512
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						100,512
CONTINGENCY				40.0%		40,205
TOTAL COST						140,717

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2840.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 32B	PRINT DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	BUILDING 32 COVERED LOADING DOCK		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	5	0	0	72	346	25	8,640	8,640
2. MEDICAL EXAM (ENTY/EXIT)	10	500	4,800	8	77	25	1,920	6,720
3. BIOASSAY TESTING (2 HRS PER YEAR)	5	0	0	2	10	25	240	240
4. ANNUAL MED. EXAMS. ($500 EA)	5	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	5	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	960	960	86	86	25	2,160	3,120
SUBTOTAL - CERCLA			5,760		518		12,960	18,720
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	10	85	816		0		0	816
2. MSA MASKS (2 EA PER WORKER PER YEAR)	8	25	200		0		0	200
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	0	1	0		0		0	0
4. GLOVES (4 PR PER DAY PER WORKER)	240	2.25	540		0		0	540
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	4	20	80		0		0	80
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	1	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	3	250	750		0		0	750
9. PUMP STORAGE TANKS WEEKLY	3	0	0	4	12	25	300	300
10. COMPACTION EQUIPMENT WEEKLY	3	160	480	4	12	25	300	780
SUBTOTAL - PERSONNEL PROTECTION			2,866		24		600	3,466
TOTAL CERCLA & MISC. COSTS			8,626		542	HR	13,560	22,186

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2840.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 32B	DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	BUILDING 32 COVERED LOADING DOCK		REV. NO.:	0

DURATION (WEEKS) 3	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	3	WK	3	127	381
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	3	WK	3	900	2,700
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	EA	0	NA	11	27	297
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	3	WK	3	215	645
PICK UP TRUCKS	0	EA	3	WK	0	90	0
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	6	5	30
SERVICE TRUCK & EQUIP.	1	EA	3	WK	3	145	435
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	1	EA	2	WK	2	350	700
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	TN	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	0	EA	3	WK	0	100	0
FUEL	NA	NA	NA	NA	12	50	600
REPAIRS & MAINTENANCE	NA	NA	NA	NA	13	5	65
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		7,223	397
CONSTRUCTION EQUIPMENT TOTAL							7,620

PROJECT NO.:	WMCO 2940.403.	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 32B		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	BUILDING 32 COVERED LOADING DOCK			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	4	EA	25	100	8	32	35	280	1,120	0	0	305	1,220
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	0	EA	10	0	10	0	35	350	0	0	0	360	0
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				300		432			15,120		500		15,920

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.14	EA	2,900	405	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	405
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	1.20	EA	700	841	0.00	0.00	25.19	0.00	0.00	0.00	0	700	841
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	1.12	EA	35	39	0.00	0.00	25.19	0.00	0.00	0.00	0	35	39
TOTAL				1,285		0			0		0		1,285

ASSUMPTIONS & INPUTS	
# OF WORKERS	4
# OF WEEKS	3
PERCENT PPE	0.00%
COMPONENT NUMBER	STRUCTURE 32B
COMP DESIGNATION	BUILDING 32 CO
MATERIAL $	802
LABOR $	13092
PRODUCTIVITY	5.00%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 39A

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	21,148	254,158	198,865	474,171
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			21,148	254,158	198,865	474,171
D & D ENVIRONMENTAL MONITORING						15,886
PAINTING ABATE. OF TRANSITE		3,638 sq/ft 0.05 / 0.3	182	1,091	0	1,273
HAZARD MAT. PRODUCTIVITY		134.8%	0	342,605	0	342,605
JOB CONDITION FACTORS		16.25%	0	97,151	0	97,151
INDIRECTS		20.0%	0	139,001	0	139,001
HEALTH PHYSICS		20.0%	0	98,280	0	98,280
SUBTOTAL			21,330	932,287	198,865	1,168,367
CERCLA			105,128	58,840	0	163,968
BOND		1.0%	213	9,911	1,989	12,113
GC MARK-UP ON SUBS		5.0% OF $190,000	0	0	9,500	9,500
GEN CONTRACTOR OH & P		20.0%	4,309	188,440	42,071	234,819
SUBTOTAL			130,980	1,189,478	252,425	1,588,767
CONSTR. MGMT.		16.0%				254,203
SUBTOTAL						1,842,970
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				147,438
ENGINEERING		9.0% Title I & II	142,989	Title III 1.0%	15,888	158,877
SUBTOTAL						2,149,285
SALES TAX		5.5%				1,163
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	38,199	DECON/CLEANING	21,130	59,329
SUBTOTAL						2,209,777
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						2,209,777
CONTINGENCY				40.0%		883,911
TOTAL COST						3,093,688

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 39A	PRINT DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	19	0	0	72	1,382	25	34,560	34,560
2. MEDICAL EXAM (ENTY/EXIT)	38	500	19,200	8	307	25	7,680	26,880
3. BIOASSAY TESTING (2 HRS PER YEAR)	19	0	0	2	38	25	960	960
4. ANNUAL MED. EXAMS. ($500 EA)	19	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	19	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	3,840	3,840	346	346	25	8,640	12,480
SUBTOTAL - CERCLA			23,040		2,074		51,840	74,880
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	448	85	38,080		0		0	38,080
2. MSA MASKS (2 EA PER WORKER PER YEAR)	32	25	800		0		0	800
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	2,688	1	2,688		0		0	2,688
4. GLOVES (4 PR PER DAY PER WORKER)	11,200	2.25	25,200		0		0	25,200
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	48	20	960		0		0	960
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	10		0		0	10
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	14	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	35	250	8,750		0		0	8,750
9. PUMP STORAGE TANKS WEEKLY	35	0	0	4	140	25	3,500	3,500
10. COMPACTION EQUIPMENT WEEKLY	35	160	5,600	4	140	25	3,500	9,100
SUBTOTAL - PERSONNEL PROTECTION			82,088		280		7,000	89,088
TOTAL CERCLA & MISC. COSTS			105,128		2,354	HR	58,840	163,968

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 39A	DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR		REV. NO.:	0

DURATION (WEEKS) 35	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	26	WK	26	127	3,302
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	26	WK	26	900	23,400
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	1	EA	11	WK	11	2,100	23,100
CONCRETE SAWS	2	EA	5	WK	10	190	1,900
CONCRETE SAW BLADES	18	EA	1	EA	18	100	1,800
EQUIPMENT INSURANCE	NA	NA	NA	NA	299	27	8,073
FLT. BD. DUMP TRUCK W/WD BED	1	EA	26	WK	26	180	4,680
FLT. BD. DUMP TRUCK W/STL BED	1	EA	26	WK	26	215	5,590
EARTH & RUBBLE DUMP TRUCKS	1	EA	26	WK	26	215	5,590
PICK UP TRUCKS	1	EA	35	WK	35	90	3,150
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	148	5	740
SERVICE TRUCK & EQUIP.	1	EA	35	WK	35	145	5,075
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	14	WK	14	370	5,180
COMPACTORS HAND - WALK	1	EA	4	WK	4	145	580
FORK LIFTS	2	EA	14	WK	28	300	8,400
SCISSOR LIFTS/BUCK HOISTS	1	EA	26	WK	26	230	5,980
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	21	WK	21	580	12,180
LOADER/BACKHOE 1/2 CY BKT	1	EA	21	WK	21	450	9,450
PORTABLE HEPA FILTER UNIT 1,000 CFM	4	EA	1	EA	4	2,750	11,000
PORTABLE HEPA FILTER UNIT 4,000 CFM	2	EA	1	EA	2	5,500	11,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	1.5	TN	1	EA	1.5	9,000	13,500
WELDING & CUTTING EQUIP.	4	EA	1	EA	4	350	1,400
PORTABLE GENERATORS	1	EA	18	WK	18	40	720
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	35	WK	35	100	3,500
FUEL	NA	NA	NA	NA	328	50	16,400
REPAIRS & MAINTENANCE	NA	NA	NA	NA	330	5	1,650
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	NA	NA		188,498	10,367
CONSTRUCTION EQUIPMENT TOTAL							198,865

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 39A		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	14	EA	25	350	8	112	35	280	3,920	0	0	305	4,270
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	6	EA	10	60	10	60	35	350	2,100	0	0	360	2,160
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				810		572			20,020		500		21,130

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	7.41	EA	2,900	21,489	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	21,489
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	23.04	EA	700	16,129	0.00	0.00	25.19	0.00	0.00	0.00	0	700	16,129
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	16.61	EA	35	581	0.00	0.00	25.19	0.00	0.00	0.00	0	35	581
TOTAL				38,199		0			0		0		38,199

ASSUMPTIONS & INPUTS	
# OF WORKERS	16
# OF WEEKS	35
PERCENT PPE	12.00%
COMPONENT NUMBER	STRUCTURE 39
COMP DESIGNATION	SEWAGE TREAT
MATERIAL $	21148
LABOR $	264158
PRODUCTIVITY	134.80%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 39D

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	2,055	27,507	19,732	49,294
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			2,055	27,507	19,732	49,294
D & D ENVIRONMENTAL MONITORING						1,651
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		100.0%	0	27,507	0	27,507
JOB CONDITION FACTORS		16.25%	0	8,940	0	8,940
INDIRECTS		20.0%	0	12,791	0	12,791
HEALTH PHYSICS		20.0%	0	9,848	0	9,848
SUBTOTAL			2,055	86,592	19,732	110,030
CERCLA			12,074	14,360	0	26,434
BOND		1.0%	21	1,010	197	1,227
GC MARK-UP ON SUBS		5.0% OF $20,000	0	0	1,000	1,000
GEN CONTRACTOR OH & P		20.0%	416	17,520	4,186	22,121
SUBTOTAL			14,565	119,482	25,115	160,813
CONSTR. MGMT.		16.0%				25,730
SUBTOTAL						186,543
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				14,923
ENGINEERING		9.0% Title I & II	14,473	Title III 1.0%	1,608	16,081
SUBTOTAL						217,547
SALES TAX		5.5%				113
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	1,859	DECON/CLEANING	16,890	18,749
SUBTOTAL						236,409
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						236,409
CONTINGENCY				40.0%		94,564
TOTAL COST						330,973

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 39D		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	5	0	0	72	346	25	8,640	8,640
2. MEDICAL EXAM (ENTY/EXIT)	10	500	4,800	8	77	25	1,920	6,720
3. BIOASSAY TESTING (2 HRS PER YEAR)	5	0	0	2	10	25	240	240
4. ANNUAL MED. EXAMS. ($500 EA)	5	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	5	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	960	960	86	86	25	2,160	3,120
SUBTOTAL - CERCLA			5,760		518		12,960	18,720
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	22	85	1,904		0		0	1,904
2. MSA MASKS (2 EA PER WORKER PER YEAR)	8	25	200		0		0	200
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	0	1	0		0		0	0
4. GLOVES (4 PR PER DAY PER WORKER)	560	2.25	1,260		0		0	1,260
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	4	20	80		0		0	80
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	1	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	7	250	1,750		0		0	1,750
9. PUMP STORAGE TANKS WEEKLY	7	0	0	4	28	25	700	700
10. COMPACTION EQUIPMENT WEEKLY	7	160	1,120	4	28	25	700	1,820
SUBTOTAL - PERSONNEL PROTECTION			6,314		56		1,400	7,714
TOTAL CERCLA & MISC. COSTS			12,074		574	HR	14,360	26,434

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 39D		DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR			REV. NO.:	0

DURATION (WEEKS) 7	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	0	EA	0	WK	0	127	0
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	6	WK	6	900	5,400
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	34	27	918
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	6	WK	6	215	1,290
PICK UP TRUCKS	1	EA	7	WK	7	90	630
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	20	5	100
SERVICE TRUCK & EQUIP.	1	EA	7	WK	7	145	1,015
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	4	WK	4	300	1,200
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	1	EA	4	WK	4	350	1,400
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	1	EA	1	EA	1	2,750	2,750
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	EA	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	7	WK	7	100	700
FUEL	NA	NA	NA	NA	35	50	1,750
REPAIRS & MAINTENANCE	NA	NA	NA	NA	36	5	180
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		18,703	1,029
CONSTRUCTION EQUIPMENT:TOTAL							19,732

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 39D		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	SEWAGE TREATMENT PLANT INCINERATOR			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	6	EA	25	150	8	48	35	280	1,680	0	0	305	1,830
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	1	EA	10	10	10	10	35	350	350	0	0	360	360
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				360		458			16,030		500		16,890

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.32	EA	2,900	924	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	924
BOXES 4'x4'x8'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	1.25	EA	700	877	0.00	0.00	25.19	0.00	0.00	0.00	0	700	877
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	1.63	EA	35	57	0.00	0.00	25.19	0.00	0.00	0.00	0	35	57
TOTAL				1,859		0			0		0		1,859

ASSUMPTIONS & INPUTS	
# OF WORKERS	4
# OF WEEKS	7
PERCENT PPE	0.00%
COMPONENT NUMBER	STRUCTURE 39
COMP DESIGNATION	SEWAGE TREAT
MATERIAL #	2055
LABOR #	27507
PRODUCTIVITY (7)	100.00%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 65

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	(OLD) PLANT 5 WAREHOUSE	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	23,095	241,550	194,726	459,371
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			23,095	241,550	194,726	459,371
D & D ENVIRONMENTAL MONITORING						16,389
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		85.8%	0	207,250	0	207,250
JOB CONDITION FACTORS		16.25%	0	72,930	0	72,930
INDIRECTS		20.0%	0	104,346	0	104,346
HEALTH PHYSICS		20.0%	0	83,765	0	83,765
SUBTOTAL			23,095	709,841	194,726	943,051
CERCLA			82,433	45,880	0	128,313
BOND		1.0%	231	7,557	1,947	9,735
GC MARK-UP ON SUBS		5.0% OF $184,000	0	0	9,200	9,200
GEN CONTRACTOR OH & P		20.0%	4,665	143,480	41,175	189,319
SUBTOTAL			110,424	906,758	247,047	1,279,618
CONSTR. MGMT.		16.0%				204,739
SUBTOTAL						1,484,358
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				118,749
ENGINEERING		9.0% Title I & II	115,166	Title III 1.0%	12,796	127,962
SUBTOTAL						1,731,068
SALES TAX		5.5%				1,270
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	27,523	DECON/CLEANING	21,765	49,288
SUBTOTAL						1,781,626
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						1,781,626
CONTINGENCY				40.0%		712,650
TOTAL COST						2,494,277

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2840.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 65		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	(OLD) PLANT 5 WAREHOUSE			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	14	0	0	72	1,037	25	25,920	25,920
2. MEDICAL EXAM (ENTY/EXIT)	29	500	14,400	8	230	25	5,760	20,160
3. BIOASSAY TESTING (2 HRS PER YEAR)	14	0	0	2	29	25	720	720
4. ANNUAL MED. EXAMS. ($500 EA)	14	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	14	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	2,880	2,880	259	259	25	6,480	9,360
SUBTOTAL - CERCLA			17,280		1,555		38,880	56,160
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	336	85	28,560		0		0	28,560
2. MSA MASKS (2 EA PER WORKER PER YEAR)	24	25	600		0		0	600
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	2,016	1	2,016		0		0	2,016
4. GLOVES (4 PR PER DAY PER WORKER)	8,400	2.25	18,900		0		0	18,900
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	36	20	720		0		0	720
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	7		0		0	7
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	11	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	35	250	8,750		0		0	8,750
9. PUMP STORAGE TANKS WEEKLY	35	0	0	4	140	25	3,500	3,500
10. COMPACTION EQUIPMENT WEEKLY	35	160	5,600	4	140	25	3,500	9,100
SUBTOTAL - PERSONNEL PROTECTION			65,153		280		7,000	72,153
TOTAL CERCLA & MISC. COSTS			82,433		1,835	HR	45,880	128,313

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2840.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 65		DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	(OLD) PLANT 5 WAREHOUSE			REV. NO.:	0

DURATION (WEEKS) 35	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	23	WK	23	127	2,921
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	2	EA	26	WK	52	900	46,800
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	244	27	6,588
FLT. BD. DUMP TRUCK W/WD BED	1	EA	26	WK	26	180	4,680
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	26	WK	26	215	5,590
PICK UP TRUCKS	1	EA	35	WK	35	90	3,150
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	122	5	610
SERVICE TRUCK & EQUIP.	1	EA	35	WK	35	145	5,075
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	18	WK	18	300	5,400
SCISSOR LIFTS/BUCK HOISTS	1	EA	26	WK	26	230	5,980
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	26	WK	26	580	15,080
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	4	EA	1	EA	4	2,750	11,000
PORTABLE HEPA FILTER UNIT 4,000 CFM	8	EA	1	EA	8	5,500	44,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	1	TN	1	EA	1	9,000	9,000
WELDING & CUTTING EQUIP.	2	EA	1	EA	2	350	700
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	35	WK	35	100	3,500
FUEL	NA	NA	NA	NA	245	50	12,250
REPAIRS & MAINTENANCE	NA	NA	NA	NA	246	5	1,230
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		184,674	10,162
CONSTRUCTION EQUIPMENT TOTAL							194,726

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 65		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	(OLD) PLANT 5 WAREHOUSE			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	9	EA	25	225	8	72	35	280	2,520	0	0	305	2,745
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	12	EA	10	120	10	120	35	350	4,200	0	0	360	4,320
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				545		592			20,720		500		21,765

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	1.69	EA	2,900	4,901	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	4,901
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	31.79	EA	700	22,256	0.00	0.00	25.19	0.00	0.00	0.00	0	700	22,256
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	10.46	EA	35	366	0.00	0.00	25.19	0.00	0.00	0.00	0	35	366
TOTAL				27,523		0			0		0		27,523

ASSUMPTIONS & INPUTS	
# OF WORKERS	12
# OF WEEKS	35
PERCENT PPE	12.00%
COMPONENT NUMBER	STRUCTURE 65
COMP DESIGNATION	(OLD) PLANT 5
MATERIAL $	23095
LABOR $	241550
PRODUCTIVITY	85.80%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 67

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	PLANT 1 THORIUM WAREHOUSE	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	9,822	73,671	55,116	138,609
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			9,822	73,671	55,116	138,609
D & D ENVIRONMENTAL MONITORING						4,643
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		76.4%	0	56,285	0	56,285
JOB CONDITION FACTORS		16.25%	0	21,118	0	21,118
INDIRECTS		20.0%	0	30,215	0	30,215
HEALTH PHYSICS		20.0%	0	25,001	0	25,001
SUBTOTAL			9,822	206,289	55,116	275,871
CERCLA			32,432	28,920	0	61,352
BOND		1.0%	98	2,352	551	3,001
GC MARK-UP ON SUBS		5.0% OF $55,000	0	0	2,750	2,750
GEN CONTRACTOR OH & P		20.0%	1,984	41,728	11,684	55,396
SUBTOTAL			44,336	279,289	70,101	398,370
CONSTR. MGMT.		16.0%				63,739
SUBTOTAL						462,109
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				36,969
ENGINEERING		9.0% Title I & II	35,853	Title III 1.0%	3,984	39,837
SUBTOTAL						538,914
SALES TAX		5.5%				540
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	5,952	DECON/CLEANING	17,860	23,812
SUBTOTAL						563,267
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						563,267
CONTINGENCY				40.0%		225,307
TOTAL COST						788,573

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 67	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PLANT 1 THORIUM WAREHOUSE		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	10	0	0	72	691	25	17,280	17,280
2. MEDICAL EXAM (ENTY/EXIT)	19	500	9,600	8	154	25	3,840	13,440
3. BIOASSAY TESTING (2 HRS PER YEAR)	10	0	0	2	19	25	480	480
4. ANNUAL MED. EXAMS. ($500 EA)	10	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	10	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,920	1,920	173	173	25	4,320	6,240
SUBTOTAL - CERCLA			11,520		1,037		25,920	37,440
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	96	85	8,160		0		0	8,160
2. MSA MASKS (2 EA PER WORKER PER YEAR)	16	25	400		0		0	400
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	480	1	480		0		0	480
4. GLOVES (4 PR PER DAY PER WORKER)	2,400	2.25	5,400		0		0	5,400
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	16	20	320		0		0	320
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	2		0		0	2
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	3	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	15	250	3,750		0		0	3,750
9. PUMP STORAGE TANKS WEEKLY	15	0	0	4	60	25	1,500	1,500
10. COMPACTION EQUIPMENT WEEKLY	15	160	2,400	4	60	25	1,500	3,900
SUBTOTAL - PERSONNEL PROTECTION			20,912		120		3,000	23,912
TOTAL CERCLA & MISC. COSTS			32,432		1,157	HR	28,920	61,352

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 67	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PLANT 1 THORIUM WAREHOUSE		REV. NO.:	0

DURATION (WEEKS) 15	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	11	WK	11	127	1,397
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	11	WK	11	900	9,900
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	93	27	2,511
FLT. BD. DUMP TRUCK W/WD BED	1	EA	11	WK	11	180	1,980
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	11	WK	11	215	2,365
PICK UP TRUCKS	1	EA	15	WK	15	90	1,350
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	52	5	260
SERVICE TRUCK & EQUIP.	1	EA	15	WK	15	145	2,175
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	8	WK	8	300	2,400
SCISSOR LIFTS/BUCK HOISTS	1	EA	11	WK	11	230	2,530
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	11	WK	11	580	6,380
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	1	EA	1	EA	1	2,750	2,750
PORTABLE HEPA FILTER UNIT 4,000 CFM	1	EA	1	EA	1	5,500	5,500
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.3	TN	1	EA	0.3	9,000	2,700
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	15	WK	15	100	1,500
FUEL	NA	NA	NA	NA	94	50	4,700
REPAIRS & MAINTENANCE	NA	NA	NA	NA	95	5	475
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		52,243	2,873
CONSTRUCTION EQUIPMENT TOTAL							55,116

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION	SHEET: 3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 67	PRINT DATE: 17-May-93
CLIENT:	WEMCO		ANALYSIS BY: DCP
LOCATION:	FEMP		CHKD. BY:
STRUCTURE:	PLANT 1 THORIUM WAREHOUSE		REV. NO.: 0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	8	EA	25	200	8	64	35	280	2,240	0	0	305	2,440
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	2	EA	10	20	10	20	35	350	700	0	0	380	720
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				420		484			16,940		500		17,880

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.43	EA	2,900	1,242	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	1,242
BOXES 4'x4'x8'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	6.58	EA	700	4,608	0.00	0.00	25.19	0.00	0.00	0.00	0	700	4,608
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	2.93	EA	35	103	0.00	0.00	25.19	0.00	0.00	0.00	0	35	103
TOTAL				5,952		0			0		0		5,952

ASSUMPTIONS & INPUTS	
# OF WORKERS	8
# OF WEEKS	15
PERCENT PPE	10.00%
COMPONENT NUMBER	STRUCTURE 67
COMP DESIGNATION	PLANT 1 THORI
MATERIAL $	9822
LABOR $	73671
PRODUCTIVITY	76.40%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 68

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	PILOT PLANT WAREHOUSE	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	19,702	208,198	120,667	348,567
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			19,702	208,198	120,667	348,567
D & D ENVIRONMENTAL MONITORING						11,677
PAINTING ABATE. OF TRANSITE		10,908 sq/ft 0.05 / 0.3	545	3,272	0	3,818
HAZARD MAT. PRODUCTIVITY		42.9%	0	89,317	0	89,317
JOB CONDITION FACTORS		16.25%	0	48,878	0	48,878
INDIRECTS		20.0%	0	69,933	0	69,933
HEALTH PHYSICS		20.0%	0	66,056	0	66,056
SUBTOTAL			20,247	485,655	120,667	638,248
CERCLA			62,131	43,680	0	105,811
BOND		1.0%	202	5,293	1,207	6,702
GC MARK-UP ON SUBS		5.0% OF $139,000	0	0	6,950	6,950
GEN CONTRACTOR OH & P		20.0%	4,090	98,190	25,765	128,044
SUBTOTAL			86,671	632,818	154,588	885,754
CONSTR. MGMT.		16.0%				141,721
SUBTOTAL						1,027,474
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				82,198
ENGINEERING		9.0% Title I & II	79,718	Title III 1.0%	8,858	88,576
SUBTOTAL						1,198,248
SALES TAX		5.5%				1,084
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	22,814	DECON/CLEANING	19,605	42,419
SUBTOTAL						1,241,750
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						1,241,750
CONTINGENCY				40.0%		496,700
TOTAL COST						1,738,451

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 68	PRINT DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PILOT PLANT WAREHOUSE		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	14	0	0	72	1,037	25	25,920	25,920
2. MEDICAL EXAM (ENTY/EXIT)	29	500	14,400	8	230	25	5,760	20,160
3. BIOASSAY TESTING (2 HRS PER YEAR)	14	0	0	2	29	25	720	720
4. ANNUAL MED. EXAMS. ($500 EA)	14	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	14	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	2,880	2,880	259	259	25	6,480	9,360
SUBTOTAL - CERCLA			17,280		1,555		38,880	56,160
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	230	85	19,584		0		0	19,584
2. MSA MASKS (2 EA PER WORKER PER YEAR)	24	25	600		0		0	600
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	1,382	1	1,382		0		0	1,382
4. GLOVES (4 PR PER DAY PER WORKER)	5,760	2.25	12,960		0		0	12,960
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	24	20	480		0		0	480
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	5		0		0	5
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	8	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	24	250	6,000		0		0	6,000
9. PUMP STORAGE TANKS WEEKLY	24	0	0	4	96	25	2,400	2,400
10. COMPACTION EQUIPMENT WEEKLY	24	160	3,840	4	96	25	2,400	6,240
SUBTOTAL - PERSONNEL PROTECTION			44,851		192		4,800	49,651
TOTAL CERCLA & MISC. COSTS			62,131		1,747	HR	43,680	105,811

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 68	DATE:	14-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	PILOT PLANT WAREHOUSE		REV. NO.:	0

DURATION (WEEKS) 24	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	16	WK	16	127	2,032
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	2	EA	16	WK	32	900	28,800
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	162	27	4,374
FLT. BD. DUMP TRUCK W/WD BED	1	EA	16	WK	16	180	2,880
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	16	WK	16	215	3,440
PICK UP TRUCKS	1	EA	24	WK	24	90	2,160
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	80	5	400
SERVICE TRUCK & EQUIP.	1	EA	24	WK	24	145	3,480
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	16	WK	16	300	4,800
SCISSOR LIFTS/BUCK HOISTS	1	EA	18	WK	18	230	4,140
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	16	WK	16	580	9,280
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	4	EA	1	EA	4	2,750	11,000
PORTABLE HEPA FILTER UNIT 4,000 CFM	2	EA	1	EA	2	5,500	11,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	1.5	TN	1	EA	1.5	9,000	13,500
WELDING & CUTTING EQUIP.	2	EA	1	EA	2	350	700
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	24	WK	24	100	2,400
FUEL	NA	NA	NA	NA	163	50	8,150
REPAIRS & MAINTENANCE	NA	NA	NA	NA	164	5	820
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		114,376	6,291
CONSTRUCTION EQUIPMENT TOTAL							120,667

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 68		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	PILOT PLANT WAREHOUSE			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MAT'L COST	LABOR MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	CONST. EQUIP. UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	9	EA	25	225	8	72	35	280	2,520	0	0	305	2,745
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	6	EA	10	60	10	60	35	350	2,100	0	0	360	2,160
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				485		532			18,620		500		19,605

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MAT'L COST	LABOR MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	CONST. EQUIP. UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	6.63	EA	2,900	19,234	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	19,234
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	4.71	EA	700	3,299	0.00	0.00	25.19	0.00	0.00	0.00	0	700	3,299
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	8.02	EA	35	281	0.00	0.00	25.19	0.00	0.00	0.00	0	35	281
TOTAL				22,814		0			0		0		22,814

ASSUMPTIONS & INPUTS	
# OF WORKERS	12
# OF WEEKS	24
PERCENT PPE	12.00%
COMPONENT NUMBER	STRUCTURE 68
COMP DESIGNATION	PILOT PLANT W
MATERIAL $	19702
LABOR $	208198
PRODUCTIVITY	42.90%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 69

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	DECONTAMINATION BUILDING	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	39,070	447,562	166,698	653,330
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			39,070	447,562	166,698	653,330
D & D ENVIRONMENTAL MONITORING						21,887
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		76.4%	0	341,937	0	341,937
JOB CONDITION FACTORS		16.25%	0	128,294	0	128,294
INDIRECTS		20.0%	0	183,559	0	183,559
HEALTH PHYSICS		20.0%	0	151,883	0	151,883
SUBTOTAL			39,070	1,253,234	166,698	1,480,888
CERCLA			127,821	60,840	0	188,661
BOND		1.0%	391	13,141	1,667	15,198
GC MARK-UP ON SUBS		5.0% OF $261,000	0	0	13,050	13,050
GEN CONTRACTOR OH & P		20.0%	7,892	253,275	36,283	297,450
SUBTOTAL			175,173	1,580,490	217,699	1,995,249
CONSTR. MGMT.		16.0%				319,240
SUBTOTAL						2,314,488
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				185,159
ENGINEERING		9.0% Title I & II	179,572	Title III 1.0%	19,952	199,525
SUBTOTAL						2,699,172
SALES TAX		5.5%				2,149
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	48,502	DECON/CLEANING	19,190	67,692
SUBTOTAL						2,769,014
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						2,769,014
CONTINGENCY				40.0%		1,107,606
TOTAL COST						3,876,619

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2840.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 69	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	DECONTAMINATION BUILDING		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	19	0	0	72	1,382	25	34,560	34,560
2. MEDICAL EXAM (ENTY/EXIT)	38	500	19,200	8	307	25	7,680	26,880
3. BIOASSAY TESTING (2 HRS PER YEAR)	19	0	0	2	38	25	960	960
4. ANNUAL MED. EXAMS. ($500 EA)	19	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	19	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	3,840	3,840	346	346	25	8,640	12,480
SUBTOTAL - CERCLA			23,040		2,074		51,840	74,880
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	576	85	48,960		0		0	48,960
2. MSA MASKS (2 EA PER WORKER PER YEAR)	32	25	800		0		0	800
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	2,880	1	2,880		0		0	2,880
4. GLOVES (4 PR PER DAY PER WORKER)	14,400	2.25	32,400		0		0	32,400
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	64	20	1,280		0		0	1,280
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	11		0		0	11
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	18	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	45	250	11,250		0		0	11,250
9. PUMP STORAGE TANKS WEEKLY	45	0	0	4	180	25	4,500	4,500
10. COMPACTION EQUIPMENT WEEKLY	45	160	7,200	4	180	25	4,500	11,700
SUBTOTAL - PERSONNEL PROTECTION			104,781		360		9,000	113,781
TOTAL CERCLA & MISC. COSTS			127,821		2,434	HR	60,840	188,661

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2840.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 69	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	DECONTAMINATION BUILDING		REV. NO.:	0

DURATION (WEEKS) 46	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	30	WK	30	127	3,810
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	30	WK	30	900	27,000
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	1	EA	13	WK	13	190	2,470
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	285	27	7,695
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0.66	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	34	WK	34	215	7,310
PICK UP TRUCKS	1	EA	45	WK	45	90	4,050
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	124	5	620
SERVICE TRUCK & EQUIP.	1	EA	45	WK	45	145	6,525
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	1	EA	23	WK	23	370	8,510
COMPACTORS HAND - WALK	1	EA	11	WK	11	145	1,595
FORK LIFTS	1	EA	22	WK	22	300	6,600
SCISSOR LIFTS/BUCK HOISTS	1	EA	22	WK	22	230	5,060
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	30	WK	30	580	17,400
LOADER/BACKHOE 1/2 CY BKT	1	EA	23	WK	23	450	10,350
PORTABLE HEPA FILTER UNIT 1,000 CFM	2	EA	1	EA	2	2,750	5,500
PORTABLE HEPA FILTER UNIT 4,000 CFM	2	EA	1	EA	2	5,500	11,000
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	1	TN	1	EA	1	9,000	9,000
WELDING & CUTTING EQUIP.	4	EA	1	EA	4	350	1,400
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	45	WK	45	100	4,500
FUEL	NA	NA	NA	NA	299	50	14,950
REPAIRS & MAINTENANCE	NA	NA	NA	NA	301	5	1,505
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	NA	NA		158,008	8,690
CONSTRUCTION EQUIPMENT TOTAL							166,698

000009

PROJECT NO.:	WMCO 2940.403		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 69	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	DECONTAMINATION BUILDING		REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	10	EA	25	250	8	80	35	280	2,800	0	0	305	3,050
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	4	EA	10	40	10	40	35	350	1,400	0	0	360	1,440
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				490		520			18,200		500		19,190

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	1.95	EA	2,900	5,663	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	5,663
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	59.89	EA	700	41,926	0.00	0.00	25.19	0.00	0.00	0.00	0	700	41,926
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	26.12	EA	35	914	0.00	0.00	25.19	0.00	0.00	0.00	0	35	914
TOTAL				48,502		0			0		0		48,502

ASSUMPTIONS & INPUTS	
# OF WORKERS	16
# OF WEEKS	45
PERCENT PPE	10.00%
COMPONENT NUMBER	STRUCTURE 69
COMP DESIGNATION	DECONTAMINAT
MATERIAL $	39070
LABOR $	447562
PRODUCTIVITY	76.40%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 72

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	14-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	DRUM STORAGE BUILDING	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	6,322	64,053	61,184	131,559
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			6,322	64,053	61,184	131,559
D & D ENVIRONMENTAL MONITORING						4,407
PAINTING ABATE. OF TRANSITE		2,700 sq/ft 0.05 / 0.3	135	810	0	945
HAZARD MAT. PRODUCTIVITY		85.8%	0	54,957	0	54,957
JOB CONDITION FACTORS		16.25%	0	19,471	0	19,471
INDIRECTS		20.0%	0	27,858	0	27,858
HEALTH PHYSICS		20.0%	0	22,438	0	22,438
SUBTOTAL			6,457	189,588	61,184	261,638
CERCLA			30,401	23,240	0	53,641
BOND		1.0%	65	2,128	612	2,805
GC MARK-UP ON SUBS		5.0% OF $53,000	0	0	2,650	2,650
GEN CONTRACTOR OH & P		20.0%	1,304	38,343	12,889	52,537
SUBTOTAL			38,227	253,300	77,335	373,268
CONSTR. MGMT.		16.0%				59,723
SUBTOTAL						432,991
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				34,639
ENGINEERING		9.0% Title I & II	33,594	Title III 1.0%	3,733	37,327
SUBTOTAL						504,958
SALES TAX		5.5%				348
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	9,118	DECON/CLEANING	17,860	26,978
SUBTOTAL						532,283
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						532,283
CONTINGENCY				40.0%		212,913
TOTAL COST						745,197

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 72		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	DRUM STORAGE BUILDING			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	7	0	0	72	518	25	12,960	12,960
2. MEDICAL EXAM (ENTY/EXIT)	14	500	7,200	8	115	25	2,880	10,080
3. BIOASSAY TESTING (2 HRS PER YEAR)	7	0	0	2	14	25	360	360
4. ANNUAL MED. EXAMS. ($500 EA)	7	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	7	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,440	1,440	130	130	25	3,240	4,680
SUBTOTAL - CERCLA			8,640		778		19,440	28,080
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	91	85	7,752		0		0	7,752
2. MSA MASKS (2 EA PER WORKER PER YEAR)	12	25	300		0		0	300
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	547	1	547		0		0	547
4. GLOVES (4 PR PER DAY PER WORKER)	2,280	2.25	5,130		0		0	5,130
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	12	20	240		0		0	240
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	2		0		0	2
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	3	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	19	250	4,750		0		0	4,750
9. PUMP STORAGE TANKS WEEKLY	19	0	0	4	76	25	1,900	1,900
10. COMPACTION EQUIPMENT WEEKLY	19	160	3,040	4	76	25	1,900	4,940
SUBTOTAL - PERSONNEL PROTECTION			21,761		152		3,800	25,561
TOTAL CERCLA & MISC. COSTS			30,401		930	HR	23,240	53,641

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 72		DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	DRUM STORAGE BUILDING			REV. NO.:	0

DURATION (WEEKS) 19	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	14	WK	14	127	1,778
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	14	WK	14	900	12,600
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	109	27	2,943
FLT. BD. DUMP TRUCK W/WD BED	1	EA	14	WK	14	180	2,520
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	13	WK	13	215	2,795
PICK UP TRUCKS	1	EA	19	WK	19	90	1,710
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	65	5	325
SERVICE TRUCK & EQUIP.	1	EA	19	WK	19	145	2,755
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	1	EA	10	WK	10	300	3,000
SCISSOR LIFTS/BUCK HOISTS	1	EA	10	WK	10	230	2,300
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	10	WK	10	580	5,800
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	2	EA	1	EA	2	2,750	5,500
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.5	TN	1	EA	0.5	9,000	4,500
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	19	WK	19	100	1,900
FUEL	NA	NA	NA	NA	110	50	5,500
REPAIRS & MAINTENANCE	NA	NA	NA	NA	112	5	560
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	NA	NA		57,994	3,190
CONSTRUCTION EQUIPMENT TOTAL							61,184

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 72		PRINT DATE:	14-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	DRUM STORAGE BUILDING			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	8	EA	25	200	8	64	35	280	2,240	0	0	305	2,440
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	2	EA	10	20	10	20	35	350	700	0	0	360	720
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				420		484			16,940		500		17,860

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x6'x20' (USED)	1.36	EA	2,900	3,953	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	3,953
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	7.24	EA	700	5,066	0.00	0.00	25.19	0.00	0.00	0.00	0	700	5,066
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	2.84	EA	35	99	0.00	0.00	25.19	0.00	0.00	0.00	0	35	99
TOTAL				9,118		0			0		0		9,118

ASSUMPTIONS & INPUTS	
# OF WORKERS	6
# OF WEEKS	19
PERCENT PPE	12.00%
COMPONENT NUMBER	STRUCTURE 72
COMP DESIGNATION	DRUM STORAGE
MATERIAL $	6322
LABOR $	64053
PRODUCTIVITY	85.80%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 73A

PROJECT NO.:	WMCO 2840.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	FIRE BRIGADE TRAINING CENTER BUILDING	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	1,804	17,783	22,328	41,915
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			1,804	17,783	22,328	41,915
D & D ENVIRONMENTAL MONITORING						1,404
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		5.0%	0	889	0	889
JOB CONDITION FACTORS		16.25%	0	3,034	0	3,034
INDIRECTS		20.0%	0	4,341	0	4,341
HEALTH PHYSICS		20.0%	0	5,032	0	5,032
SUBTOTAL			1,804	31,079	22,328	56,616
CERCLA			11,212	14,160	0	25,372
BOND		1.0%	18	452	223	694
GC MARK-UP ON SUBS		5.0% OF $17,000	0	0	850	850
GEN CONTRACTOR OH & P		20.0%	364	6,306	4,680	11,351
SUBTOTAL			13,398	51,998	28,082	94,882
CONSTR. MGMT.		16.0%				15,181
SUBTOTAL						110,063
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				8,805
ENGINEERING		9.0% Title I & II	8,539	Title III 1.0%	949	9,488
SUBTOTAL						128,357
SALES TAX		5.5%				99
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	1,128	DECON/CLEANING	17,195	18,323
SUBTOTAL						146,778
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						146,778
CONTINGENCY				40.0%		58,711
TOTAL COST						205,490

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73A		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	FIRE BRIGADE TRAINING CENTER BUILDING			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	5	0	0	72	346	25	8,640	8,640
2. MEDICAL EXAM (ENTY/EXIT)	10	500	4,800	8	77	25	1,920	6,720
3. BIOASSAY TESTING (2 HRS PER YEAR)	5	0	0	2	10	25	240	240
4. ANNUAL MED. EXAMS. ($500 EA)	5	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	5	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	960	960	86	86	25	2,160	3,120
SUBTOTAL - CERCLA			5,760		518		12,960	18,720
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	19	85	1,632		0		0	1,632
2. MSA MASKS (2 EA PER WORKER PER YEAR)	8	25	200		0		0	200
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	0	1	0		0		0	0
4. GLOVES (4 PR PER DAY PER WORKER)	480	2.25	1,080		0		0	1,080
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	4	20	80		0		0	80
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	1	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	6	250	1,500		0		0	1,500
9. PUMP STORAGE TANKS WEEKLY	6	0	0	4	24	25	600	600
10. COMPACTION EQUIPMENT WEEKLY	6	160	960	4	24	25	600	1,560
SUBTOTAL - PERSONNEL PROTECTION			5,452		48		1,200	6,652
TOTAL CERCLA & MISC. COSTS			11,212		566	HR	14,160	25,372

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73A		DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	FIRE BRIGADE TRAINING CENTER BUILDING			REV. NO.:	0

DURATION (WEEKS) 6	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	0	WK	0	127	0
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	4	WK	4	900	3,600
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	1	EA	4	WK	4	190	760
CONCRETE SAW BLADES	1	EA	1	EA	1	100	100
EQUIPMENT INSURANCE	NA	NA	NA	NA	33	27	891
FLT. BD. DUMP TRUCK W/WD BED	1	EA	5	WK	5	180	900
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	5	WK	5	215	1,075
PICK UP TRUCKS	1	EA	6	WK	6	90	540
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	22	5	110
SERVICE TRUCK & EQUIP.	1	EA	6	WK	6	145	870
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	1	EA	3	WK	3	230	690
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	4	WK	4	580	2,320
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	1	EA	1	EA	1	2,750	2,750
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0.3	TN	1	EA	0.3	9,000	2,700
WELDING & CUTTING EQUIP.	0	EA	1	EA	0	350	0
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	1	EA	1	WK	1	220	220
CONST. STORAGE, SHOPS & FACILITIES	1	EA	6	WK	6	100	600
FUEL	NA	NA	NA	NA	38	50	1,900
REPAIRS & MAINTENANCE	NA	NA	NA	NA	40	5	200
SCABBLE MACHINE (FLOOR)	1	EA	1	WK	1	800	800
SCABBLE MACHINE (HAND)	1	EA	1	WK	1	138	138
SALES TAX 5.50%	0.055	LS	NA	NA		21,164	1,164
CONSTRUCTION EQUIPMENT TOTAL							22,328

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION	SHEET: 3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73A	PRINT DATE: 17-May-93
CLIENT:	WEMCO		ANALYSIS BY: DCP
LOCATION:	FEMP		CHKD. BY:
STRUCTURE:	FIRE BRIGADE TRAINING CENTER BUILDING		REV. NO.: 0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	7	EA	25	175	8	56	35	280	1,960	0	0	305	2,135
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	1	EA	10	10	10	10	35	350	350	0	0	360	360
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				385		466			16,310		500		17,195

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.03	EA	2,900	78	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	78
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	1.45	EA	700	1,017	0.00	0.00	25.19	0.00	0.00	0.00	0	700	1,017
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	0.93	EA	35	33	0.00	0.00	25.19	0.00	0.00	0.00	0	35	33
TOTAL				1,128		0			0		0		1,128

ASSUMPTIONS & INPUTS	
# OF WORKERS	4
# OF WEEKS	6
PERCENT PPE	0.00%
COMPONENT NUMBER	STRUCTURE 73
COMP DESIGNATION	FIRE BRIGADE T
MATERIAL $	1804
LABOR $	17783
PRODUCTIVITY	5.00%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 73B

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	FIRE TRAINING POND	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	1,650	28,524	16,986	47,160
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			1,650	28,524	16,986	47,160
D & D ENVIRONMENTAL MONITORING						1,580
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		25.7%	0	7,331	0	7,331
JOB CONDITION FACTORS		16.25%	0	5,826	0	5,826
INDIRECTS		20.0%	0	8,336	0	8,336
HEALTH PHYSICS		20.0%	0	8,537	0	8,537
SUBTOTAL			1,650	58,555	16,986	78,770
CERCLA			17,841	21,040	0	38,881
BOND		1.0%	17	796	170	982
GC MARK-UP ON SUBS		5.0% OF $19,000	0	0	950	950
GEN CONTRACTOR OH & P		20.0%	333	11,870	3,621	15,824
SUBTOTAL			19,841	92,261	21,726	135,408
CONSTR. MGMT.		16.0%				21,665
SUBTOTAL						157,073
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				12,566
ENGINEERING		9.0% Title I & II	12,187	Title III 1.0%	1,354	13,541
SUBTOTAL						183,180
SALES TAX		5.5%				91
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	57,986	DECON/CLEANING	4,290	62,276
SUBTOTAL						245,546
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						245,546
CONTINGENCY				40.0%		98,219
TOTAL COST						343,765

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73B	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	FIRE TRAINING POND		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	7	0	0	72	518	25	12,960	12,960
2. MEDICAL EXAM (ENTY/EXIT)	14	500	7,200	8	115	25	2,880	10,080
3. BIOASSAY TESTING (2 HRS PER YEAR)	7	0	0	2	14	25	360	360
4. ANNUAL MED. EXAMS. ($500 EA)	7	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	7	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	1,440	1,440	130	130	25	3,240	4,680
SUBTOTAL - CERCLA			8,640		778		19,440	28,080
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	38	85	3,264		0		0	3,264
2. MSA MASKS (2 EA PER WORKER PER YEAR)	12	25	300		0		0	300
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	77	1	77		0		0	77
4. GLOVES (4 PR PER DAY PER WORKER)	960	2.25	2,160		0		0	2,160
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	6	20	120		0		0	120
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	2	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	8	250	2,000		0		0	2,000
9. PUMP STORAGE TANKS WEEKLY	8	0	0	4	32	25	800	800
10. COMPACTION EQUIPMENT WEEKLY	8	160	1,280	4	32	25	800	2,080
SUBTOTAL - PERSONNEL PROTECTION			9,201		64		1,600	10,801
TOTAL CERCLA & MISC. COSTS			17,841		842	HR	21,040	38,881

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73B	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	FIRE TRAINING POND		REV. NO.:	0

DURATION (WEEKS) 8	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	0	EA	0	WK	0	127	0
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	0	EA	0	WK	0	900	0
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	44	27	1,188
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	8	WK	8	215	1,720
PICK UP TRUCKS	1	EA	8	WK	8	90	720
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	24	5	120
SERVICE TRUCK & EQUIP.	1	EA	8	WK	8	145	1,160
WATER TANK TRUCK	1	EA	4	WK	4	200	800
GRADER	1	EA	4	WK	4	818	3,272
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	1	EA	4	WK	4	145	580
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	1	EA	4	WK	4	580	2,320
LOADER/BACKHOE 1/2 CY BKT	1	EA	4	WK	4	450	1,800
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	TN	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	0	EA	1	EA	0	350	0
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	0	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	0	EA	8	WK	0	100	0
FUEL	NA	NA	NA	NA	44	50	2,200
REPAIRS & MAINTENANCE	NA	NA	NA	NA	44	5	220
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		16,100	886
CONSTRUCTION EQUIPMENT TOTAL							16,986

5545

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION	SHEET: 3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 738	PRINT DATE: 17-May-93
CLIENT:	WEMCO		ANALYSIS BY: DCP
LOCATION:	FEMP		CHKD. BY:
STRUCTURE:	FIRE TRAINING POND		REV. NO.: 0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	8	EA	25	200	8	64	35	280	2,240	0	0	305	2,440
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	0	LS	200	0	400	0	35	14,000	0	500	0	14,700	0
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	0	EA	10	0	10	0	35	350	0	0	0	360	0
5. TEMPORARY STRUCTURES	10	CSF	5	50	5	50	35	175	1,750	5	50	185	1,850
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				250		114			3,990		50		4,290

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.00	EA	2,900	0	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	0
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	71.38	EA	700	49,965	0.00	0.00	25.19	0.00	0.00	0.00	0	700	49,965
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	229.18	EA	35	8,021	0.00	0.00	25.19	0.00	0.00	0.00	0	35	8,021
TOTAL				57,986		0			0		0		57,986

ASSUMPTIONS & INPUTS	
# OF WORKERS	6
# OF WEEKS	8
PERCENT PPE	4.00%
COMPONENT NUMBER	STRUCTURE 738
COMP DESIGNATION	FIRE TRAINING P
MATERIAL $	1650
LABOR $	28524
PRODUCTIVITY	25.70%
TEMPORARY STRUCTS	10

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 73C

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	FIRE TRAINING TANK	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	661	4,103	2,325	7,089
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			661	4,103	2,325	7,089
D & D ENVIRONMENTAL MONITORING						237
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		25.7%	0	1,054	0	1,054
JOB CONDITION FACTORS		16.25%	0	838	0	838
INDIRECTS		20.0%	0	1,199	0	1,199
HEALTH PHYSICS		20.0%	0	1,228	0	1,228
SUBTOTAL			661	8,423	2,325	11,646
CERCLA			6,038	10,120	0	16,158
BOND		1.0%	7	185	23	215
GC MARK-UP ON SUBS		5.0% OF $3,000	0	0	150	150
GEN CONTRACTOR OH & P		20.0%	134	1,722	500	2,355
SUBTOTAL			6,839	20,450	2,998	30,524
CONSTR. MGMT.		16.0%				4,884
SUBTOTAL						35,408
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				2,833
ENGINEERING		9.0% Title I & II	2,747	Title III 1.0%	305	3,052
SUBTOTAL						41,293
SALES TAX		5.5%				36
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	1,451	DECON/CLEANING	15,615	17,066
SUBTOTAL						58,395
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						58,395
CONTINGENCY				40.0%		23,358
TOTAL COST						81,754

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR		SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73C		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	FIRE TRAINING TANK			REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	4	0	0	72	259	25	6,480	6,480
2. MEDICAL EXAM (ENTY/EXIT)	7	500	3,600	8	58	25	1,440	5,040
3. BIOASSAY TESTING (2 HRS PER YEAR)	4	0	0	2	7	25	180	180
4. ANNUAL MED. EXAMS. ($500 EA)	4	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	4	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	720	720	65	65	25	1,620	2,340
SUBTOTAL - CERCLA			4,320		389		9,720	14,040
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	5	85	408		0		0	408
2. MSA MASKS (2 EA PER WORKER PER YEAR)	6	25	150		0		0	150
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	10	1	10		0		0	10
4. GLOVES (4 PR PER DAY PER WORKER)	120	2.25	270		0		0	270
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	3	20	60		0		0	60
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	1	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	2	250	500		0		0	500
9. PUMP STORAGE TANKS WEEKLY	2	0	0	4	8	25	200	200
10. COMPACTION EQUIPMENT WEEKLY	2	160	320	4	8	25	200	520
SUBTOTAL - PERSONNEL PROTECTION			1,718		16		400	2,118
TOTAL CERCLA & MISC. COSTS			6,038		405	HR	10,120	16,158

CONSTRUCTION EQUIPMENT
(RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403				
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73C		DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	FIRE TRAINING TANK			REV. NO.:	0

DURATION (WEEKS) 2	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	1	EA	2	WK	2	127	254
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	0	EA	0	WK	0	900	0
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	5	27	135
FLT. BD. DUMP TRUCK W/WD BED	0	EA	0	WK	0	180	0
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	1	EA	2	WK	2	215	430
PICK UP TRUCKS	0	EA	2	WK	0	90	0
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	4	5	20
SERVICE TRUCK & EQUIP.	1	EA	2	WK	2	145	290
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	1	EA	1	WK	1	450	450
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	TN	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	0	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	0	EA	2	WK	0	100	0
FUEL	NA	NA	NA	NA	5	50	250
REPAIRS & MAINTENANCE	NA	NA	NA	NA	5	5	25
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		2,204	121
CONSTRUCTION EQUIPMENT TOTAL							2,325

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73C		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	FIRE TRAINING TANK			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	3	EA	25	75	8	24	35	280	840	0	0	305	915
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	0	EA	10	0	10	0	35	350	0	0	0	360	0
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				275		424			14,840		500		15,615

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL		LABOR					CONST. EQUIP.		TOTAL	
			UNIT COST	MAT'L COST	MH UNIT	TOTAL MH	WAGE RATE	UNIT COST	LABOR COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.00	EA	2,900	8	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	8
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	2.05	EA	700	1,438	0.00	0.00	25.19	0.00	0.00	0.00	0	700	1,438
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	0.14	EA	35	5	0.00	0.00	25.19	0.00	0.00	0.00	0	35	5
TOTAL				1,451		0			0		0		1,451

ASSUMPTIONS & INPUTS	
# OF WORKERS	3
# OF WEEKS	2
PERCENT PPE	4.00%
COMPONENT NUMBER	STRUCTURE 73
COMP DESIGNATION	FIRE TRAINING T
MATERIAL $	661
LABOR $	4103
PRODUCTIVITY	25.70%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 73D

PROJECT NO.:	WMCO 2840.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TROUGH	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	743	4,604	2,474	7,821
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			743	4,604	2,474	7,821
D & D ENVIRONMENTAL MONITORING						262
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		17.8%	0	820	0	820
JOB CONDITION FACTORS		16.25%	0	881	0	881
INDIRECTS		20.0%	0	1,261	0	1,261
HEALTH PHYSICS		20.0%	0	1,349	0	1,349
SUBTOTAL			743	8,915	2,474	12,384
CERCLA			6,033	10,120	0	16,153
BOND		1.0%	7	190	25	223
GC MARK-UP ON SUBS		5.0% OF $3,000	0	0	150	150
GEN CONTRACTOR OH & P		20.0%	150	1,821	530	2,501
SUBTOTAL			6,933	21,046	3,178	31,420
CONSTR. MGMT.		16.0%				5,027
SUBTOTAL						36,448
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				2,916
ENGINEERING		9.0% Title I & II	2,828	Title III 1.0%	314	3,142
SUBTOTAL						42,505
SALES TAX		5.5%				41
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	991	DECON/CLEANING	15,920	16,911
SUBTOTAL						59,457
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						59,457
CONTINGENCY				40.0%		23,783
TOTAL COST						83,240

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73D	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TROUGH		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	4	0	0	72	259	25	6,480	6,480
2. MEDICAL EXAM (ENTY/EXIT)	7	500	3,600	8	58	25	1,440	5,040
3. BIOASSAY TESTING (2 HRS PER YEAR)	4	0	0	2	7	25	180	180
4. ANNUAL MED. EXAMS. ($500 EA)	4	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	4	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	720	720	65	65	25	1,620	2,340
SUBTOTAL - CERCLA			4,320		389		9,720	14,040
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	5	85	408		0		0	408
2. MSA MASKS (2 EA PER WORKER PER YEAR)	6	25	150		0		0	150
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	5	1	5		0		0	5
4. GLOVES (4 PR PER DAY PER WORKER)	120	2.25	270		0		0	270
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	3	20	60		0		0	60
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	1	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	2	250	500		0		0	500
9. PUMP STORAGE TANKS WEEKLY	2	0	0	4	8	25	200	200
10. COMPACTION EQUIPMENT WEEKLY	2	160	320	4	8	25	200	520
SUBTOTAL - PERSONNEL PROTECTION			1,713		16		400	2,113
TOTAL CERCLA & MISC. COSTS			6,033		405	HR	10,120	16,153

CONSTRUCTION EQUIPMENT
(RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73D	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TROUGH		REV. NO.:	0

DURATION (WEEKS) 2	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	0	EA	0	WK	0	127	0
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	1	WK	1	900	900
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	5	27	135
FLT. BD. DUMP TRUCK W/WD BED	1	EA	1	WK	1	180	180
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	0	EA	0	WK	0	215	0
PICK UP TRUCKS	0	EA	2	WK	0	90	0
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	3	5	15
SERVICE TRUCK & EQUIP.	1	EA	2	WK	2	145	290
WATER TANK TRUCK	1	EA	1	WK	1	200	200
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	0	EA	0	WK	0	450	0
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	6,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	TN	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	0	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	0	EA	2	WK	0	100	0
FUEL	NA	NA	NA	NA	5	50	250
REPAIRS & MAINTENANCE	NA	NA	NA	NA	5	5	25
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		2,345	129
CONSTRUCTION EQUIPMENT TOTAL							2,474

PROJECT NO.:	WMCO 2940.403	SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	PRINT DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TROUGH	REV. NO.:	0

DECONTAMINATION

STRUCTURE 73D

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	4	EA	26	100	8	32	35	280	1,120	0	0	306	1,220
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	0	EA	10	0	10	0	35	350	0	0	0	360	0
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				300		432			15,120		500		15,920

CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.01	EA	2,900	16	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	16
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	1.39	EA	700	970	0.00	0.00	25.19	0.00	0.00	0.00	0	700	970
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	0.14	EA	35	5	0.00	0.00	25.19	0.00	0.00	0.00	0	35	5
TOTAL				991		0			0		0		991

ASSUMPTIONS & INPUTS	
# OF WORKERS	3
# OF WEEKS	2
PERCENT PPE	2.00%
COMPONENT NUMBER	STRUCTURE 73
COMP DESIGNATION	FIRE TRAINING B
MATERIAL #	743
LABOR #	4604
PRODUCTIVITY	17.80%
TEMPORARY STRUCTS	

EBASCO ENVIRONMENTAL

COST ANALYSIS

STRUCTURE 73E

PROJECT NO.:	WMCO 2940.403	SHEET:	1
PROJECT TITLE:	EE/CA - EA REMOVAL #27	DATE:	17-May-93
CLIENT:	WEMCO	ANALYSIS BY:	DCP
LOCATION:	FEMP	CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TANK	REV. NO.:	0

PRIME	ITEM	DESCRIPTION	MAT'L $	LABOR $	CONST. EQUIP. $	TOTAL $
1000		LAND & LAND RIGHT	0	0	0	0
2000		IMPROVEMENTS TO LAND	855	9,328	6,229	16,412
3000		NEW BUILDINGS & ADDITIONS	0	0	0	0
4000		BUILDING MODIFICATIONS	0	0	0	0
5000		OTHER STRUCTURES	0	0	0	0
6000		SPECIAL FACILITIES	0	0	0	0
7000		UTILITIES	0	0	0	0
8000		STANDARD EQUIPMENT	0	0	0	0
SUBTOTAL			855	9,328	6,229	16,412
D & D ENVIRONMENTAL MONITORING						550
PAINTING ABATE. OF TRANSITE		0 sq/ft 0.05 / 0.3	0	0	0	0
HAZARD MAT. PRODUCTIVITY		17.8%	0	1,660	0	1,660
JOB CONDITION FACTORS		16.25%	0	1,786	0	1,786
INDIRECTS		20.0%	0	2,555	0	2,555
HEALTH PHYSICS		20.0%	0	2,734	0	2,734
SUBTOTAL			855	18,062	6,229	25,696
CERCLA			7,536	10,520	0	18,056
BOND		1.0%	9	286	62	357
GC MARK-UP ON SUBS		5.0% OF $7,000	0	0	350	350
GEN CONTRACTOR OH & P		20.0%	173	3,670	1,328	5,171
SUBTOTAL			8,572	32,538	7,969	49,629
CONSTR. MGMT.		16.0%				7,941
SUBTOTAL						57,569
SAFETY DOCUMENTATION		(INCLUDED IN ENGINEERING)				0
PROJ. MGMT.-WEMCO		8.0%				4,606
ENGINEERING		9.0% Title I & II	4,467	Title III 1.0%	496	4,963
SUBTOTAL						67,138
SALES TAX		5.5%				47
DISPOSAL/CONST. EQ.DECON:		CONTAINERS	209	DECON/CLEANING	15,920	16,129
SUBTOTAL						83,314
ESCALATION		SEE SUMMARY COST ANALYSIS		0.0%		0
SUBTOTAL						83,314
CONTINGENCY				40.0%		33,326
TOTAL COST						116,640

5545

CERCLA & MISC. COSTS

PROJECT NO.:	WMCO 2940.403	GENERAL CONTRACTOR	SHEET:	2
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73E	PRINT DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TANK		REV. NO.:	0

DESCRIPTION	QTY	MATERIAL UNIT PRICE	MATERIAL AMOUNT COST	LABOR UNIT HOURS	LABOR TOTAL HOURS	LABOR RATE	LABOR AMOUNT	TOTAL COST
1. SAFETY TRAINING (WORKERS + 20% STAFF)	4	0	0	72	259	25	6,480	6,480
2. MEDICAL EXAM (ENTY/EXIT)	7	500	3,600	8	58	25	1,440	5,040
3. BIOASSAY TESTING (2 HRS PER YEAR)	4	0	0	2	7	25	180	180
4. ANNUAL MED. EXAMS. ($500 EA)	4	0	0	0	0	25	0	0
5. ANNUAL 8 HR REFRESHER TRAINING	4	0	0	0	0	25	0	0
6. ATTRITION (20% OF ITEMS 1,2 &3)	1	720	720	65	65	25	1,620	2,340
SUBTOTAL - CERCLA			4,320		389		9,720	14,040
PERSONNEL PROTECTION (5 DAY WEEKS)								
1. TYVEK SUITS (4 EA PER DAY PER WORKER/25/BX)	10	85	816		0		0	816
2. MSA MASKS (2 EA PER WORKER PER YEAR)	6	25	150		0		0	150
3. CARTRIDGES (8 EA PER DAY PER WEEK) * PPE	10	1	10		0		0	10
4. GLOVES (4 PR PER DAY PER WORKER)	240	2.25	540		0		0	540
5. RUBBER BOOTS (4 PR PER WORKER PER YEAR)	3	20	60		0		0	60
6. CLEANING MASKS (1 PER WORKER, 15 MIN PER WEEK) * PPE	0	35	0		0		0	0
7. DRUMS, DISPOSE OF 50 TYVEKS & GLOVE SETS (EA)	1	0	0		0		0	0
8. PERSONNEL DECON TRAILER W/TANKS WEEKLY	4	250	1,000		0		0	1,000
9. PUMP STORAGE TANKS WEEKLY	4	0	0	4	16	25	400	400
10. COMPACTION EQUIPMENT WEEKLY	4	160	640	4	16	25	400	1,040
SUBTOTAL - PERSONNEL PROTECTION			3,216		32		800	4,016
TOTAL CERCLA & MISC. COSTS			7,536		421	HR	10,520	18,056

CONSTRUCTION EQUIPMENT (RENTAL COSTS)

PROJECT NO.:	WMCO 2940.403			
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73E	DATE:	17-May-93
CLIENT:	WEMCO		ANALYSIS BY:	DCP
LOCATION:	FEMP		CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TANK		REV. NO.:	0

DURATION (WEEKS) 4	QUANTITY		DURATION		RENTAL WK	RATE	TOTAL
CRANES W/EQUIP. (RENTAL ALLOWANCE FOR HEAVY LIFTS)	0	EA	0	WK	0	127	0
CRANES W/EQUIP. 15 TN HYDRAULIC WHEEL MTD 41' BM	1	EA	2	WK	2	900	1,800
CRANES W/EQUIP. 45 TN HYDRAULIC WHEEL MTD 80' BM	0	EA	0	WK	0	2,100	0
CONCRETE SAWS	0	EA	0	WK	0	190	0
CONCRETE SAW BLADES	0	EA	1	EA	0	100	0
EQUIPMENT INSURANCE	NA	NA	NA	NA	12	27	324
FLT. BD. DUMP TRUCK W/WD BED	1	EA	2	WK	2	180	360
FLT. BD. DUMP TRUCK W/STL BED	0	EA	0	WK	0	215	0
EARTH & RUBBLE DUMP TRUCKS	0	EA	0	WK	0	215	0
PICK UP TRUCKS	0	EA	4	WK	0	90	0
TRUCK EQUIPMENT TIRE MAINT.	NA	NA	NA	NA	6	5	30
SERVICE TRUCK & EQUIP.	1	EA	4	WK	4	145	580
WATER TANK TRUCK	0	EA	0	WK	0	200	0
GRADER	0	EA	0	WK	0	818	0
BOBCATS	0	EA	0	WK	0	370	0
COMPACTORS HAND - WALK	0	EA	0	WK	0	145	0
FORK LIFTS	0	EA	0	WK	0	300	0
SCISSOR LIFTS/BUCK HOISTS	0	EA	0	WK	0	230	0
JLG MARKLIFT 30" x 48"	0	EA	0	WK	0	350	0
TRACKHOE W/1CY BKT & PNU BREAKER ATTACHMENT	0	EA	0	WK	0	680	0
WHEEL MTD FRONT END LOADER	0	EA	0	WK	0	580	0
LOADER/BACKHOE 1/2 CY BKT	1	EA	4	WK	4	450	1,800
PORTABLE HEPA FILTER UNIT 1,000 CFM	0	EA	1	EA	0	2,750	0
PORTABLE HEPA FILTER UNIT 4,000 CFM	0	EA	1	EA	0	5,500	0
S.S. DUCTWORK FOR CONTAINMENT/VENTILATION	0	TN	1	EA	0	9,000	0
WELDING & CUTTING EQUIP.	1	EA	1	EA	1	350	350
PORTABLE GENERATORS	0	EA	0	WK	0	40	0
AIR COMPR. W/EQUIP. 250 CFM	0	EA	0	WK	0	220	0
CONST. STORAGE, SHOPS & FACILITIES	0	EA	4	WK	0	100	0
FUEL	NA	NA	NA	NA	12	50	600
REPAIRS & MAINTENANCE	NA	NA	NA	NA	12	5	60
SCABBLE MACHINE (FLOOR)	0	EA	0	WK	0	800	0
SCABBLE MACHINE (HAND)	0	EA	0	WK	0	138	0
SALES TAX 5.50%	0.055	LS	NA	NA		5,904	325
CONSTRUCTION EQUIPMENT TOTAL							6,229

PROJECT NO.:	WMCO 2940.403	DECONTAMINATION		SHEET:	3
PROJECT TITLE:	EE/CA - EA REMOVAL #27	STRUCTURE 73E		PRINT DATE:	17-May-93
CLIENT:	WEMCO			ANALYSIS BY:	DCP
LOCATION:	FEMP			CHKD. BY:	
STRUCTURE:	FIRE TRAINING BURN TANK			REV. NO.:	0

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
MATERIALS & EQUIPMENT DECONTAMINATION													
1. CONSTRUCTION EQUIPMENT	4	EA	25	100	8	32	35	280	1,120	0	0	305	1,220
2. SCAFFOLDING/BRACING/RAILS/PLATFORMS	1	LS	200	200	400	400	35	14,000	14,000	500	500	14,700	14,700
3. STRURAL & MISC. STEEL (IN DIRECT COST)	0	TN	5	0	6	0	35	210	0	8	0	223	0
4. MOTORS AND FANS (HEPA FILTER FANS)	0	EA	10	0	10	0	35	350	0	0	0	360	0
5. TEMPORARY STRUCTURES	0	CSF	5	0	5	0	35	175	0	5	0	185	0
6. MISC. DECONTAMINATION	0	LS	500	0	500	0	35	17,500	0	0	0	18,000	0
TOTAL				300		432			15,120		500		15,920

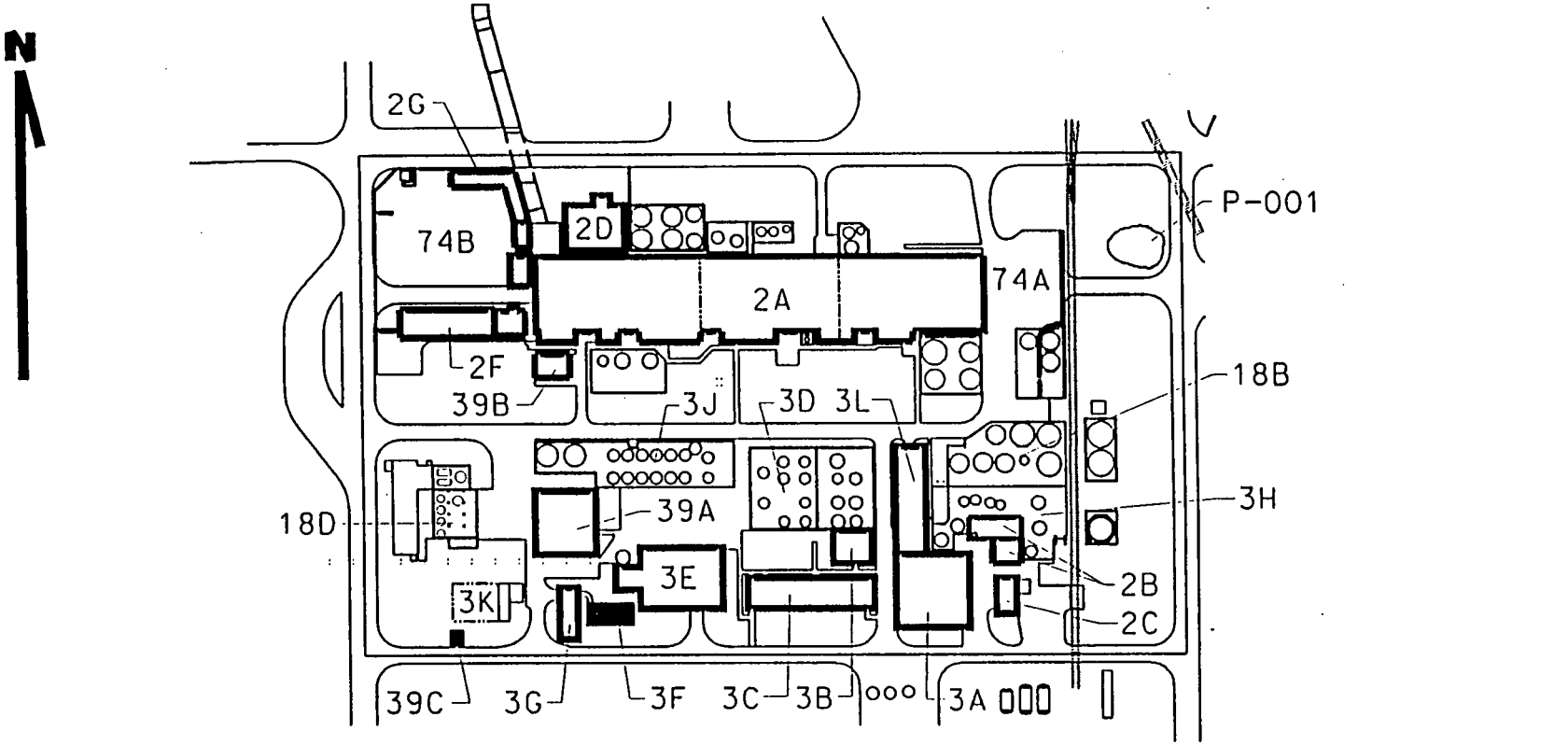
CONTAINERS

DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	MATERIAL MAT'L COST	LABOR MH UNIT	LABOR TOTAL MH	LABOR WAGE RATE	LABOR UNIT COST	LABOR LABOR COST	CONST. EQUIP. UNIT COST	CONST. EQUIP. TOTAL COST	TOTAL UNIT COST	TOTAL TOTAL COST
CONTAINERS													
SEA/LAND CONTAINERS 8'x8'x20' (USED)	0.00	EA	2,900	0	0.00	0.00	25.19	0.00	0.00	0.00	0	2,900	0
BOXES 4'x4'x6'	0.00	EA	0	0	0.00	0.00	25.19	0.00	0.00	0.00	0	0	0
7A BOXES 52"Wx36"Hx52"L	0.29	EA	700	200	0.00	0.00	25.19	0.00	0.00	0.00	0	700	200
DRUMS 55 GAL (DUST & VACUUM FILTERS)	0.00	EA	35	0	0.00	0.00	25.19	0.00	0.00	0.00	0	35	0
DRUMS 55 GAL (LEAD, OIL, GREASE & MISC.)	0.27	EA	35	10	0.00	0.00	25.19	0.00	0.00	0.00	0	35	10
TOTAL				209		0			0		0		209

ASSUMPTIONS & INPUTS	
# OF WORKERS	3
# OF WEEKS	4
PERCENT PPE	2.00%
COMPONENT NUMBER	STRUCTURE 73E
COMP DESIGNATION	FIRE TRAINING B
MATERIAL $	855
LABOR $	9328
PRODUCTIVITY	17.80%
TEMPORARY STRUCTS	

APPENDIX D

Data Sheets and Detailed Grid Maps for the Twenty-Five Structures



2A ORE REFINERY PLANT
2B GENERAL/REFINERY SUMP CONTROL BLDG
2C BULK LIME HANDLING BLDG
2D METAL DISSOLVER BLDG
2E NFS STORAGE & PUMP HOUSE
2F COLD SIDE ORE CONVEYOR
2G HOT SIDE ORE CONVEROR
3A MAINTENANCE BLDG
3B OZONE BLDG
3C NAR CONTROL HOUSE
3D NAR TOWERS
3E HOT RAFFINATE BLDG
3F HARSHAW SYSTEM
3G REFRIGERATION BLDG
3H REFINERY SUMP
3J COMBINED RAFFINATE TANKS
3K OLD COOLING WATER TOWER
3L ELECTRICAL POWER CENTER BLDG

18B GENERAL SUMP
18D BIODENITRIFICATION TOWERS
39A INCINERATOR BLDG
39B WASTE OIL DECANT SHELTER
39C INCINERATOR SPRINKLER RISER HOUSE
74A PLANT 2 EAST PAD
74B PLANT 2 WEST PAD
P-001 DIRT PILE EAST OF PLANT 2

GRID NO.19 STRUCTURE 3F HARSHAW SYSTEM

5545

Structure 3F: Harshaw System	Group 2A: Containerized material - Aboveground	5545

Description: A 19- x 40- x 35-ft multilevel open steel structure, 35 ft high.

Environmental note: gravel surround, curbed pad, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(A)	106	209	4	1000	1000	15	256	673	5	19000	70000	16
(F)				280	1000	6	148	148	1	3000	11000	9
Summary	106	209	4	640	1000	21	202	673	6	11000	70000	25

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Ammonia (NH3)
Nitric Acid (HNO3)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

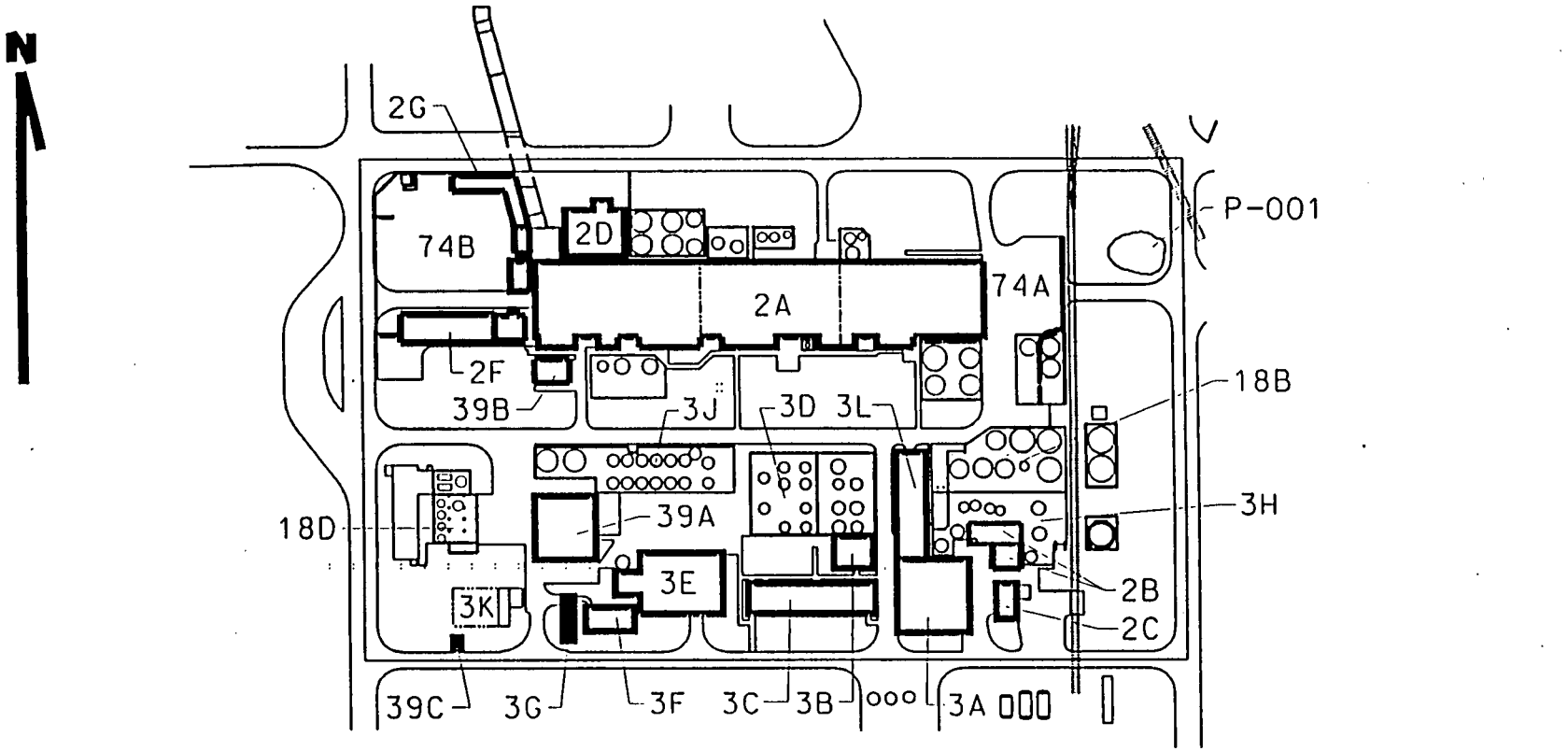
	Assessment	Factor
Protective Clothing	30%	2.071
Building Height	Standard	0.300
Plant Operation	N/A	
Building Size	Standard	0.050
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		2.796

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	5525	296	0.00	12176	1353
SeaLand Boxes	12.54	0.56		NOT APPLICABLE	
7A Boxes	20.65	4.99			
55 Gallon Drums	11.79	0.02			
Total Weight All Material:	3341.46 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 303,000
Added Factors, Engineering & Management	1,997,000
On-Site Waste Processing	909,000
Off-Site Waste Disposition - Free Release	000
Landfill	1,000
Low Level Waste	442,000
Mixed Waste	24,000
RCRA	000
Total Cost ('92 $)	$ 3,677,000
Escalated Cost ('95 $)	$ 4,018,000



2A ORE REFINERY PLANT
2B GENERAL/REFINERY SUMP CONTROL BLDG
2C BULK LIME HANDLING BLDG
2D METAL DISSOLVER BLDG
2E NFS STORAGE & PUMP HOUSE
2F COLD SIDE ORE CONVEYOR
2G HOT SIDE ORE CONVEROR
3A MAINTENANCE BLDG
3B OZONE BLDG
3C NAR CONTROL HOUSE
3D NAR TOWERS
3E HOT RAFFINATE BLDG
3F HARSHAW SYSTEM
3G REFRIGERATION BLDG
3H REFINERY SUMP
3J COMBINED RAFFINATE TANKS
3K OLD COOLING WATER TOWER
3L ELECTRICAL POWER CENTER BLDG

18B GENERAL SUMP
18D BIODENITRIFICATION TOWERS
39A INCINERATOR BLDG
39B WASTE OIL DECANT SHELTER
39C INCINERATOR SPRINKLER RISER HOUSE
74A PLANT 2 EAST PAD
74B PLANT 2 WEST PAD
P-001 DIRT PILE EAST OF PLANT 2

GRID NO.19 STRUCTURE 3G REFRIGERATION BLDG

Structure 3G: Refrigeration Building	Group 1D: Buildings - Warehouse/Storage

Description: 16- x 44- x 11-ft single-level building, 11 ft high.

Building Type A: Consists of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, transite (concrete panels reinforced with asbestos fiber) siding panels with insulation sandwiched between inner and outer panels, transite interior walls, transite roof panels, lead bolt covers and sill moldings, glass windows, some with basement sections, most with sloped roof. Approximation of a typical volumetric content of concrete, steel, and transite is not practical, since each facility varies greatly in volume-to-perimeter ratio.

Environmental note: 704 sq. ft., gravel surround, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(A)	32	121	11	1000	2000	10	96	475	11	8000	29000	8
(F)	20	20	3	1000	4000	7	44	73	3	9000	29000	7
Summary	26	121	14	1000	4000	17	70	475	14	8500	29000	15

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Radium (Ra)
Refrigerant

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

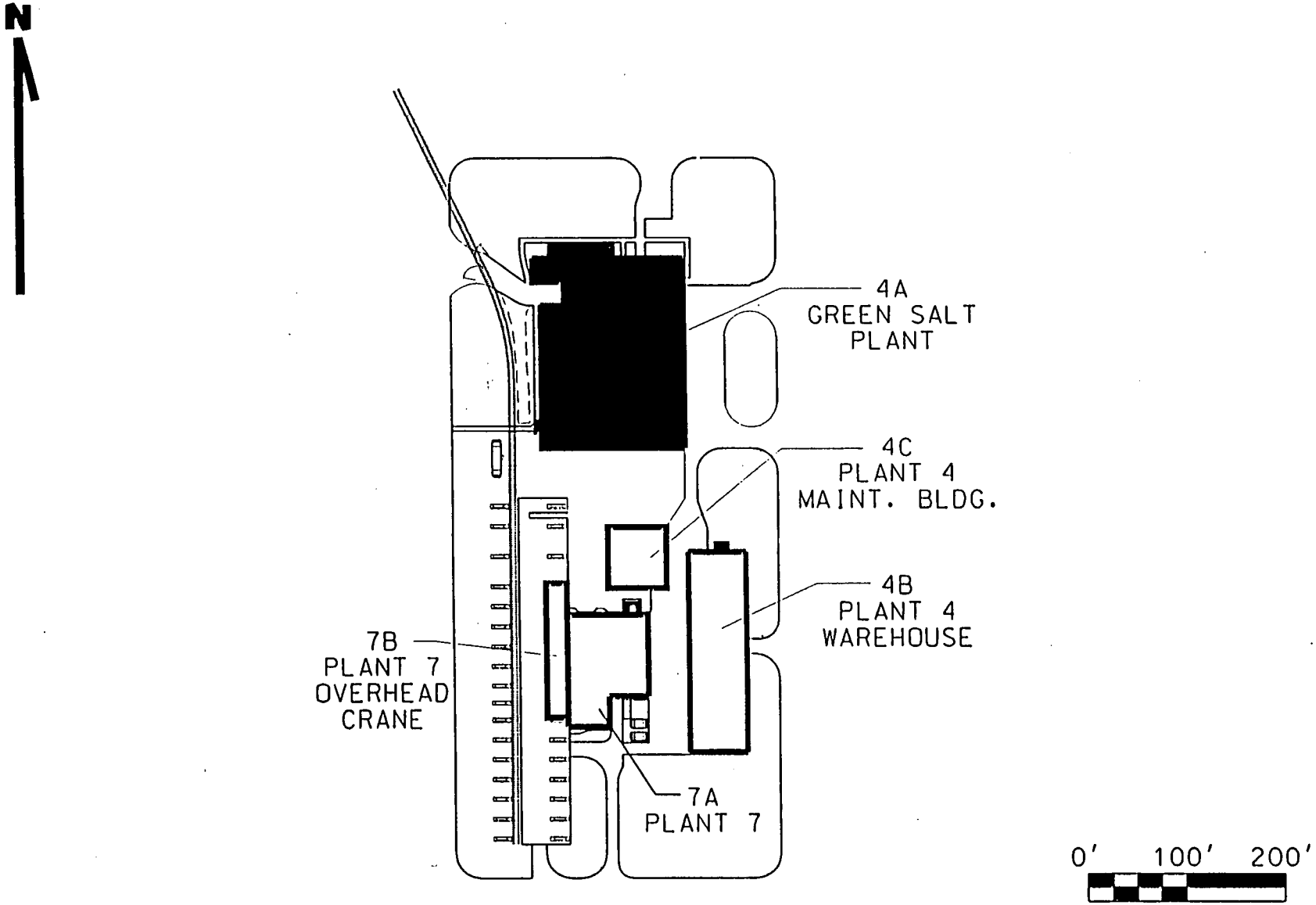
	Assessment	Factor
Protective Clothing	3%	1.107
Building Height	N/A	
Plant Operation	N/A	
Building Size	Standard	0.050
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.162

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	2057	8	0.00	270	72
SeaLand Boxes	2.73	0.04		NOT APPLICABLE	
7A Boxes	1.85	0.07			
55 Gallon Drums	1.65	0.85			
Total Weight All Material:			79.68 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 93,000
Added Factors, Engineering & Management	383,000
On-Site Waste Processing	232,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	165,000
Mixed Waste	1,000
RCRA	000
Total Cost ('92 $)	$ 873,000
Escalated Cost ('95 $)	$ 954,000



GRID NO.13 STRUCTURE 4A GREEN SALT PLANT

000094

5545

Structure 4A: Green Salt Plant	Group 1C: Buildings - Warehouse/Storage

Description: 146- x 194- x 71-ft multilevel building with 5 floors, 71 ft high.

Building Type A: Consists of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, transite (concrete panels reinforced with asbestos fiber) siding panels with insulation sandwiched between inner and outer panels, transite interior walls, transite roof panels, lead bolt covers and sill moldings, glass windows, some with basement sections, most with sloped roof. Approximation of a typical volumetric content of concrete, steel, and transite is not practical, since each facility varies greatly in volume-to-perimeter ratio.

Environmental note: 28,324 sq. ft., gravel/asphalt, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
First Floor - Elev. 580 (A)	2156	18100	67				13263	143000	67			
First Floor - Elev. 580 (F)	779	26200	91				2621	89200	91			
First Floor - Elev. 580 (I)	4366	16200	33				13529	49500	33			
Elev 588 (A)	4982	28200	25				21662	109000	25			
Elev 588 (F)	796	3670	16				3139	19800	16			
Elev 588 (I)	2604	5520	9				6253	16600	9			
Second Floor - Elev 597 (A)	2965	31900	95				16037	176000	95			
Second Floor - Elev 597 (F)	1212	11800	75				6072	48800	75			
Elev 605 (A)	1432	3440	14				3590	9990	14			
Elev 605 (F)	613	2070	26				1065	4790	26			
Elev 610 (A)	1429	12200	27				3039	26700	27			
Elev 610 (F)	292	1070	32				526	1690	32			
Elev 610 (I)	10951	10951	1				28138	28138	1			
Third Floor - Elev 619 (A)	624	3530	54				1672	17600	54			
Third Floor - Elev 619 (F)	270	3330	103				541	9650	103			
Third Floor - Elev 619 (I)	4213	9020	3				9421	20000	3			
Fourth Floor - Elev 629 (A)	2210	8840	15				6212	18400	15			
Fourth Floor - Elev 629 (F)	985	8020	125				2343	26600	125			
Summary	2382	31900	811				7729	176000	811			

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Ammonia (NH3)
Catalyst
Hydrofluoric Acid (HF) (Aqueous & Anhydrous)
Potassium Fluoride (KF)
Potassium Hydroxide (KOH)
Refrigerant
Thorium Oxides
Thorium Tetrafluoride (ThF4)
U3O8 (Black Oxide)
UF4 (Green Salt)
UO2
UO3 (Orange Oxide)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
Packout Station #1	11	1810	824	22	10	2150	408	22
G4-15 Dust Collector	14	3610	1300	15	9	2950	1130	15
South at Scale	412	3800	1230	13	517	3320	1170	13
SUMMARY	11	3800	1118	50	9	3320	903	50

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

	Assessment	Factor
Protective Clothing	36%	2.286
Building Height	Above Std	0.500
Plant Operation	Standard	0.100
Building Size	N/A	
Space Requirements	Standard	0.100
Concentration of Equipment	Above Std	0.230
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		4.412

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	45487	1003	0.00	18127	3759
SeaLand Boxes	83.26	6.92		NOT APPLICABLE	
7A Boxes	87.93	8.37			
55 Gallon Drums	453.51	15.01			
Total Weight All Material: 4289.78 Tons					

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 5,483,000
Added Factors, Engineering & Management	65,959,000
On-Site Waste Processing	5,926,000
Off-Site Waste Disposition - Free Release	000
Landfill	4,000
Low Level Waste	3,639,000
Mixed Waste	80,000
RCRA	000
Total Cost ('92 $)	$ 81,091,000
Escalated Cost ('95 $)	$ 88,608,000

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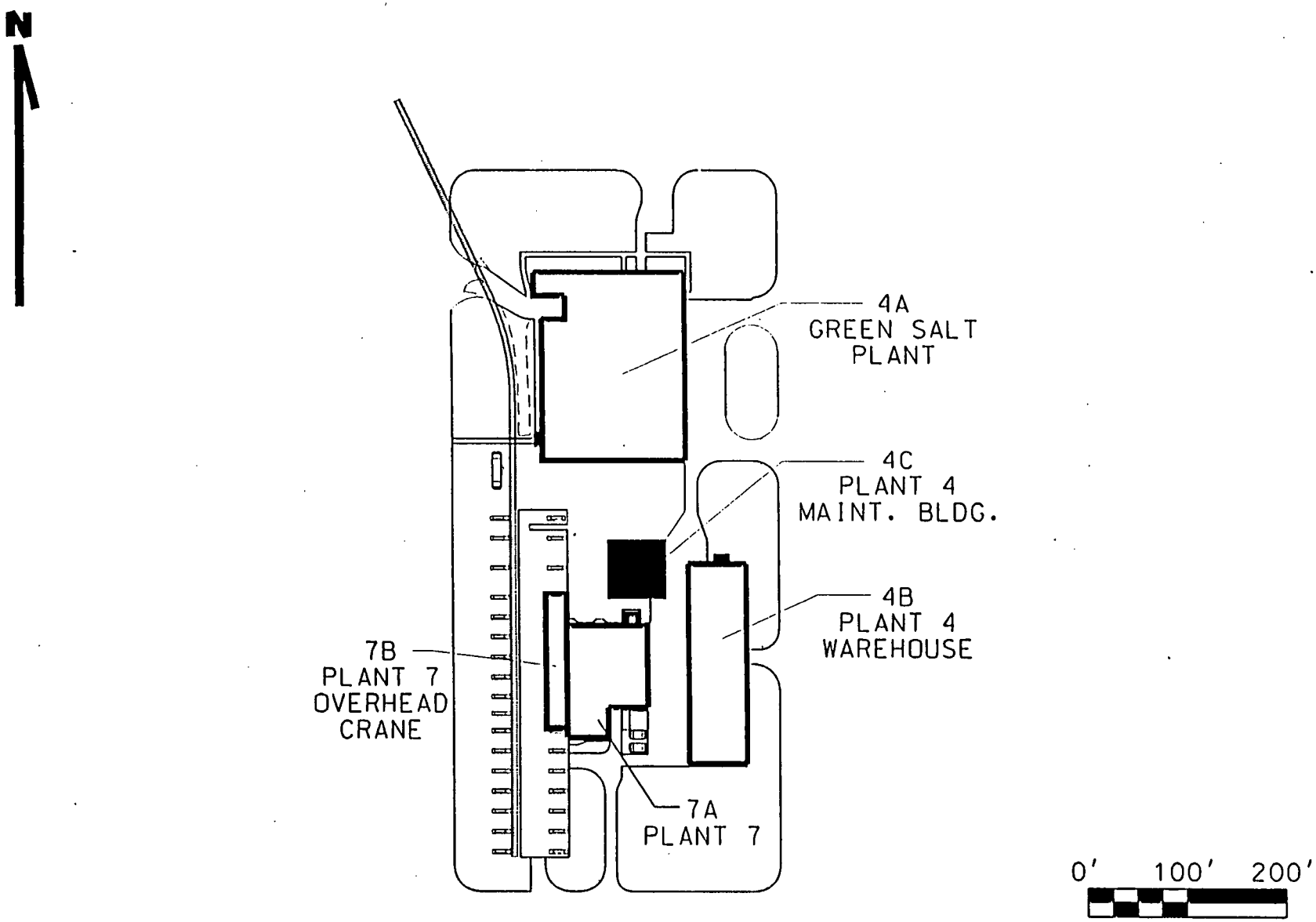
000096

5545



GRID NO. 13 STRUCTURE 4C PLANT 4 MAINTENANCE BLDG

Structure 4C: Plant 4 Maintenance Building	Group 1D: Buildings - Warehouse/Storage

Description: 60- x 60- x 14-ft single-level building, 14 ft high.

Building Type A: Consists of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, transite (concrete panels reinforced with asbestos fiber) siding panels with insulation sandwiched between inner and outer panels, transite interior walls, transite roof panels, lead bolt covers and sill moldings, glass windows, some with basement sections, most with sloped roof. Approximation of a typical volumetric content of concrete, steel, and transite is not practical, since each facility varies greatly in volume-to-perimeter ratio.

Environmental note: 3600 sq. ft., gravel surround, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(F)	54	54	20				39	69	20			
Summary	54	54	20				39	69	20			

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
Hydraulic Oil
Trichloroethylene (TCE)
UF4 (Green Salt)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

	Assessment	Factor
Protective Clothing	3%	1.107
Building Height	N/A	
Plant Operation	N/A	
Building Size	Standard	0.050
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.162

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	3121	10	0.00	130	295
SeaLand Boxes	5.87			NOT APPLICABLE	
7A Boxes	7.43	0.18			
55 Gallon Drums	3.66	0.85			
Total Weight All Material:	189.41 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 222,000
Added Factors, Engineering & Management	808,000
On-Site Waste Processing	351,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	250,000
Mixed Waste	1,000
RCRA	000
Total Cost ('92 $)	$ 1,632,000
Escalated Cost ('95 $)	$ 1,783,000

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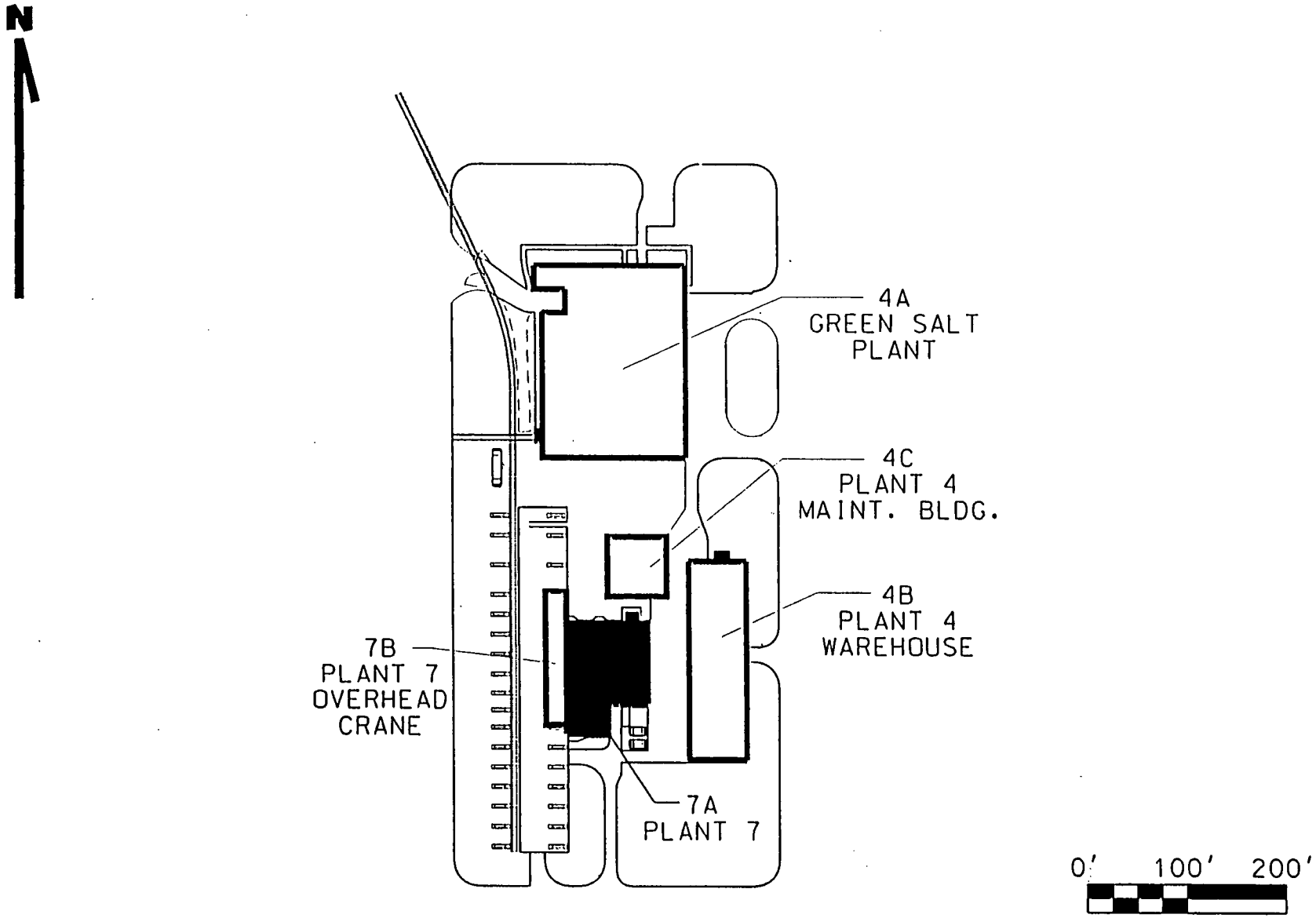


GRID NO. 13 STRUCTURE 7A PLANT 7

5545

Structure 7A: Plant 7	Group 1A: Buildings - Warehouse/Storage

Description: 82- x 112- x 102-ft multilevel building, 102 ft high with 7 floors.

Building Type A: Consists of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, transite (concrete panels reinforced with asbestos fiber) siding panels with insulation sandwiched between inner and outer panels, transite interior walls, transite roof panels, lead bolt covers and sill moldings, glass windows, some with basement sections, most with sloped roof. Approximation of a typical volumetric content of concrete, steel, and transite is not practical, since each facility varies greatly in volume-to-perimeter ratio.

Environmental note: 9184 sq. ft., gravel/asphalt, pigeon roost

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(A)	719	4780	65				2499	16600	65			
(F)	370	26300	178				864	29800	178			
Summary	545	26300	243				1682	29800	243			

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Ammonia (NH3)
Bird Droppings
Catalyst
Fluoride (NaF)
Hydrofluoric Acid (HF) (Aqueous & Anhydrous)
UF4 (Green Salt)
UF6
UO2
UO2F2
UO3 (Orange Oxide)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

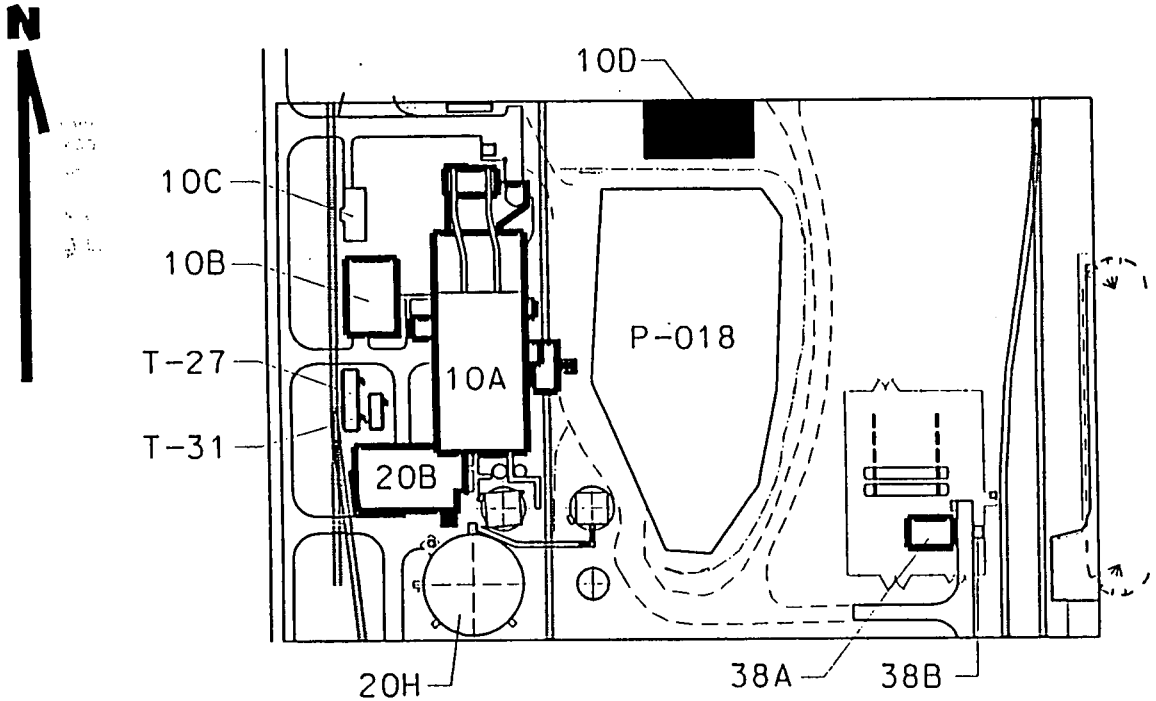
	Assessment	Factor
Protective Clothing	14%	1.500
Building Height	Above Std	0.500
Plant Operation	Standard	0.100
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	Standard	0.143
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		2.615

WASTE STREAM VOLUMES

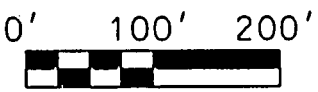
	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	17433	437	0.00	3974	5460
SeaLand Boxes	27.27	1.95		NOT APPLICABLE	
7A Boxes	61.31	5.13			
55 Gallon Drums	208.08	10.44			
Total Weight All Material:	1892.96 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 2,290,000
Added Factors, Engineering & Management	16,859,000
On-Site Waste Processing	2,322,000
Off-Site Waste Disposition - Free Release	000
Landfill	5,000
Low Level Waste	1,395,000
Mixed Waste	35,000
RCRA	000
Total Cost ('92 $)	$ 22,906,000
Escalated Cost ('95 $)	$ 25,030,000



10A BOILER PLANT
10B BOILER PLANT MAINTENANCE BLDG
10C WET SALT STORAGE BIN
10D CONTAMINATED OIL/GRAPHITE BURN PAD
20B WATER PLANT
20H PROCESS WATER STORAGE TANK
38A PROPANE STORAGE
38B CYLINDER FILLING STATION
P-018 COAL PILE



GRID NO.10 STRUCTURE 10D CONTAMINATED OIL/GRAPHITE BURN PAD

Structure 10D: Cont. Oil/Graphite Burn Pad	Group 4: Parking lots/storage pads/roads/railroads -

Description: A concrete pad approximately 55 x 85 ft.

Environmental note: 4675 sq. ft. curbed pad, uncut grass surround

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
1,2-Dichloroethene
2-Methyl-naphthalene
Acetone
Benzo [a] anthracene
Benzo [k] fluoranthene
Beta-BHC
Bis(2-ethylhexyl) phthalate
Chloroform
Chrysene
Di-n-butyl-phthalate
Dibenzo-furan
Ethylbenzene
Fluoranthene
Metals (Misc.)
Methyl ethyl ketone also Butanone (MEK)
Methylene Chloride (Dichloromethane)
N-nitrosodi-phenylamine
Naphthalene
Perchloroethylene
Phenanthrene
Pyrene
Sodium Chloride (NaCl)
Toluene
Trichloroethylene (TCE)
Xylene (Includes Total Xylenes)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

	Assessment	Factor
Protective Clothing	4%	1.143
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.257

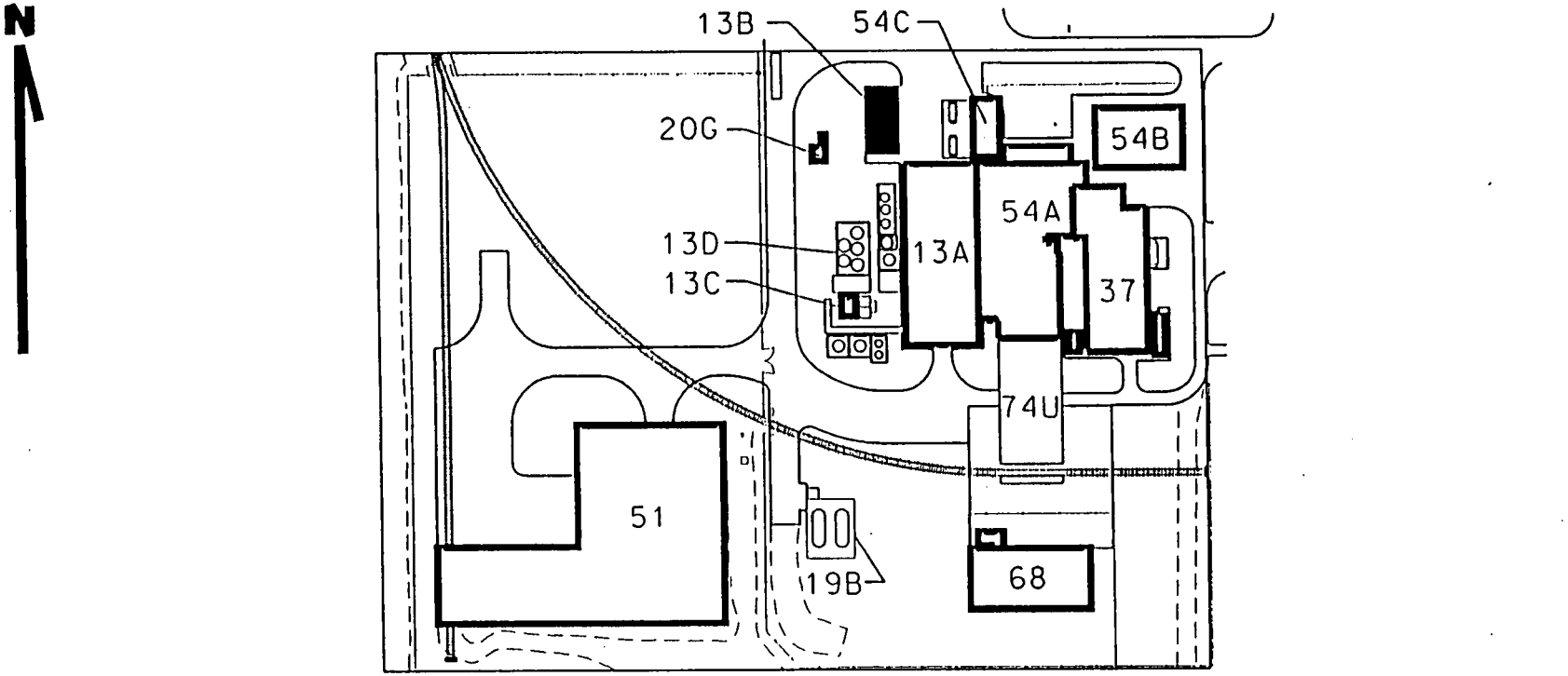
WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	435	70	0.00	115	7560
SeaLand Boxes	0.01	0.04		NOT APPLICABLE	
7A Boxes	7.55				
55 Gallon Drums	2.77	9.57			
Total Weight All Material:	619.89 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 174,000
Added Factors, Engineering & Management	613,000
On-Site Waste Processing	134,000
Off-Site Waste Disposition - Free Release	000
Landfill	8,000
Low Level Waste	35,000
Mixed Waste	6,000
RCRA	000
Total Cost ('92 $)	$ 968,000
Escalated Cost ('95 $)	$ 1,058,000

000101



13A PILOT PLANT WET SIDE
13B PILOT PLANT MAINTENANCE BLDG
13C SUMP PUMP HOUSE
13D PILOT PLANT THORIUM TANK FARM
19B PILOT PLANT AMMONIA TANK FARM
20G WELL HOUSE
37 PILOT PLANT ANNEX
51 SIX TO FOUR REDUCTION FACILTY #2
54A SIX TO FOUR REDUCTION FACILITY #1
54B PILOT PLANT SHELTER
54C PILOT PLANT DISSOCIATOR SHELTER
68 PILOT PLANT WAREHOUSE
74U PILOT PLANT PAD

0' 100' 200'

GRID NO.26 STRUCTURE 13B PILOT PLANT MAINTENANCE BLDG

000102

Structure 13B: Pilot Plant Maintenance Bldg.	Group 1D: Buildings - Warehouse/Storage

Description: 30- x 60-ft single-level building, 11 ft high.

Environmental note: 1800 sq. ft., gravel/asphalt, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(F)	31	58	8				58	118	8			
Summary	31	58	8				58	118	8			

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Hydraulic Oil
Oil (Lubricating, Cutting, Fuel & Motor Oils)
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

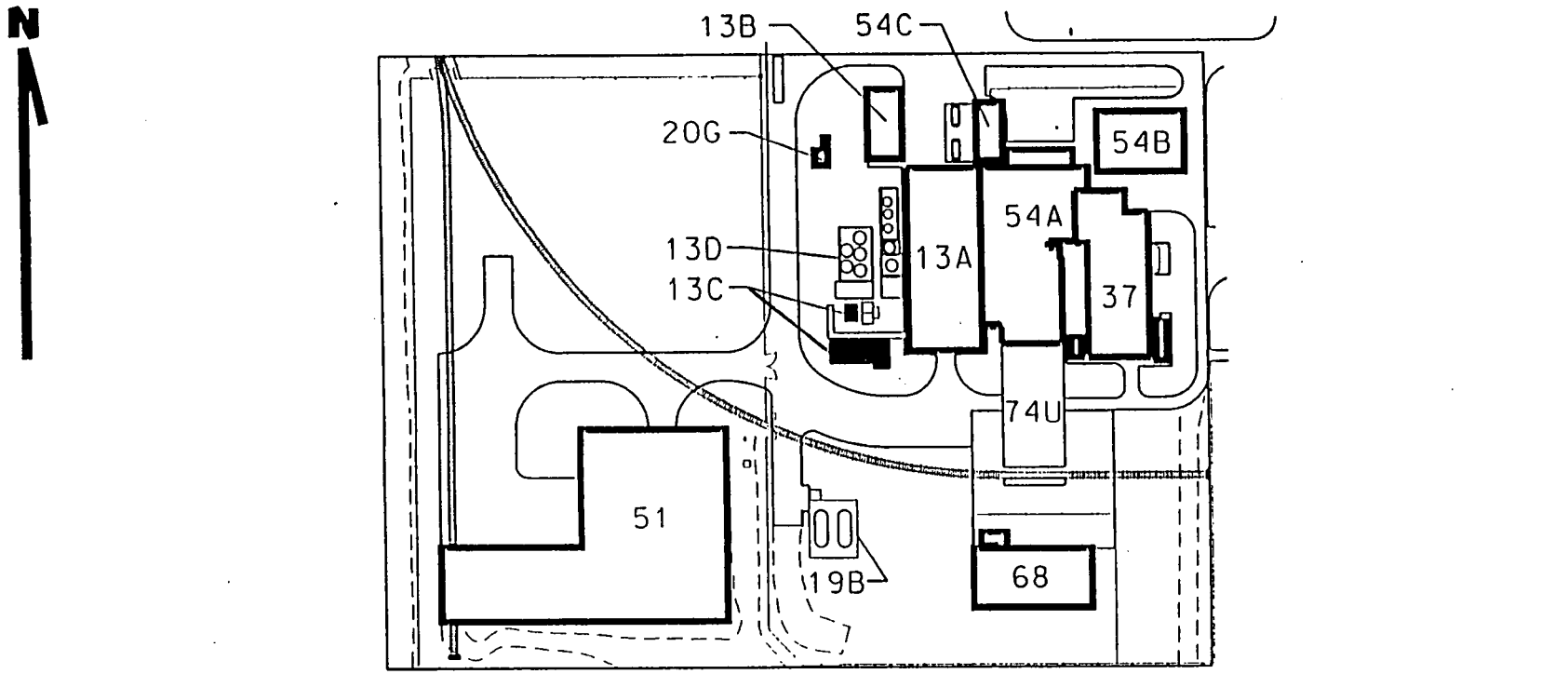
	Assessment	Factor
Protective Clothing	3%	1.107
Building Height	N/A	
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.107

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	1311	42	0.00	513	4196
SeaLand Boxes	1.19	0.26		NOT APPLICABLE	
7A Boxes	11.49	0.28			
55 Gallon Drums	1.65	1.81			
Total Weight All Material:	494.55 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 135,000
Added Factors, Engineering & Management	460,000
On-Site Waste Processing	195,000
Off-Site Waste Disposition - Free Release	000
Landfill	4,000
Low Level Waste	105,000
Mixed Waste	3,000
RCRA	000
Total Cost ('92 $)	$ 903,000
Escalated Cost ('95 $)	$ 986,000



13A PILOT PLANT WET SIDE
13B PILOT PLANT MAINTENANCE BLDG
13C SUMP PUMP HOUSE
13D PILOT PLANT THORIUM TANK FARM
19B PILOT PLANT AMMONIA TANK FARM
20G WELL HOUSE
37 PILOT PLANT ANNEX
51 SIX TO FOUR REDUCTION FACILTY #2
54A SIX TO FOUR REDUCTION FACILITY #1
54B PILOT PLANT SHELTER
54C PILOT PLANT DISSOCIATOR SHELTER
68 PILOT PLANT WAREHOUSE
74U PILOT PLANT PAD

0' 100' 200'

GRID NO.26 STRUCTURE 13C PILOT PLANT SUMP HOUSE

Structure 13C: Sump Pump House	Group 1C: Buildings - Warehouse/Storage

Description: 12- x 16-ft single-level building, 8 ft high.

Building Type B: Consists of cement block construction on reinforced poured concrete footers, with reinforced poured concrete floors, glass windows, and flat reinforced poured concrete roofs. Typically these structures are volumetrically composed of approximately 50% cinder block and 50% concrete. Larger structures also employ reinforced concrete columns and/or steel frames. Reinforced poured concrete second floors may be present in some structures.

Environmental note: 192 sq. ft., gravel, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(A)	1079	4640	6	242000	1000000	5	2575	11200	6	110000	250000	5
(F)	363	941	19	228000	1000000	6	629	3360	19	308000	500000	6
(I)	181	257	5	2000	5000	5	280	396	5	47000	100000	3
Summary	541	4640	30	157333	1000000	16	1161	11200	30	155000	500000	14

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Magnesium Oxide (MgO)
Sodium Hydroxide (NaOH)
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

	Assessment	Factor
Protective Clothing	26%	1.928
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		2.121

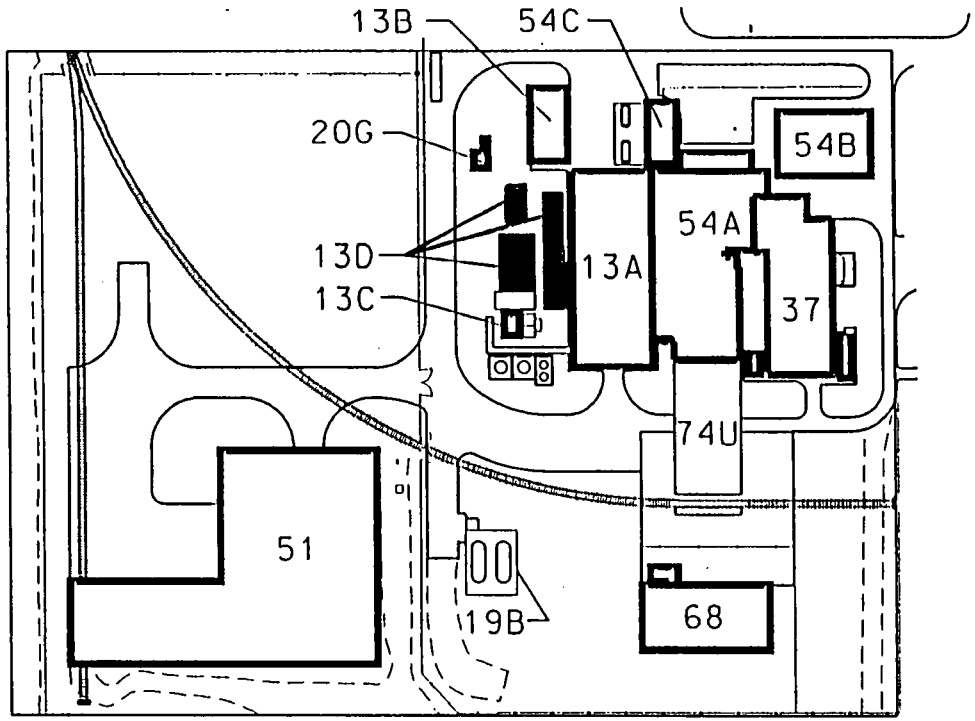
WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	364	9	0.00	135	48669
SeaLand Boxes	0.03	0.09		NOT APPLICABLE	
7A Boxes	6.62	0.03			
55 Gallon Drums	2.69	0.19			
Total Weight All Material:	3706.36 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 91,000
Added Factors, Engineering & Management	521,000
On-Site Waste Processing	194,000
Off-Site Waste Disposition - Free Release	000
Landfill	49,000
Low Level Waste	29,000
Mixed Waste	1,000
RCRA	000
Total Cost ('92 $)	$ 885,000
Escalated Cost ('95 $)	$ 967,000

000108



13A PILOT PLANT WET SIDE
13B PILOT PLANT MAINTENANCE BLDG
13C SUMP PUMP HOUSE
13D PILOT PLANT THORIUM TANK FARM
19B PILOT PLANT AMMONIA TANK FARM
20G WELL HOUSE
37 PILOT PLANT ANNEX
51 SIX TO FOUR REDUCTION FACILTY #2
54A SIX TO FOUR REDUCTION FACILITY #1
54B PILOT PLANT SHELTER
54C PILOT PLANT DISSOCIATOR SHELTER
68 PILOT PLANT WAREHOUSE
74U PILOT PLANT PAD

0' 100' 200'

GRID NO.26 STRUCTURE 13D PILOT PLANT THORIUM TANK FARM

5545

Structure 13D: Pilot Plant Thorium Tank Farm	Group 2A: Containerized material - Aboveground

Description: A 50- x 75-ft open concrete diked area west of building 13A.

Environmental note: 3750 sq. ft. curbed pad/asphalt, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(A)	32	32	1				20	20	1			
(F)	268	629	13				442	1660	13			
Summary	150	629	14				231	1660	14			

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
Di Amyl Amyl Phosphonate (DAAP)
Kerosene
Mineral Spirits
Nitric Acid (HNO3)
Sodium Hydroxide (NaOH)
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)
Thorium Nitrate
Tributyl phosphate (TBP)
Uranyl Nitrate

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

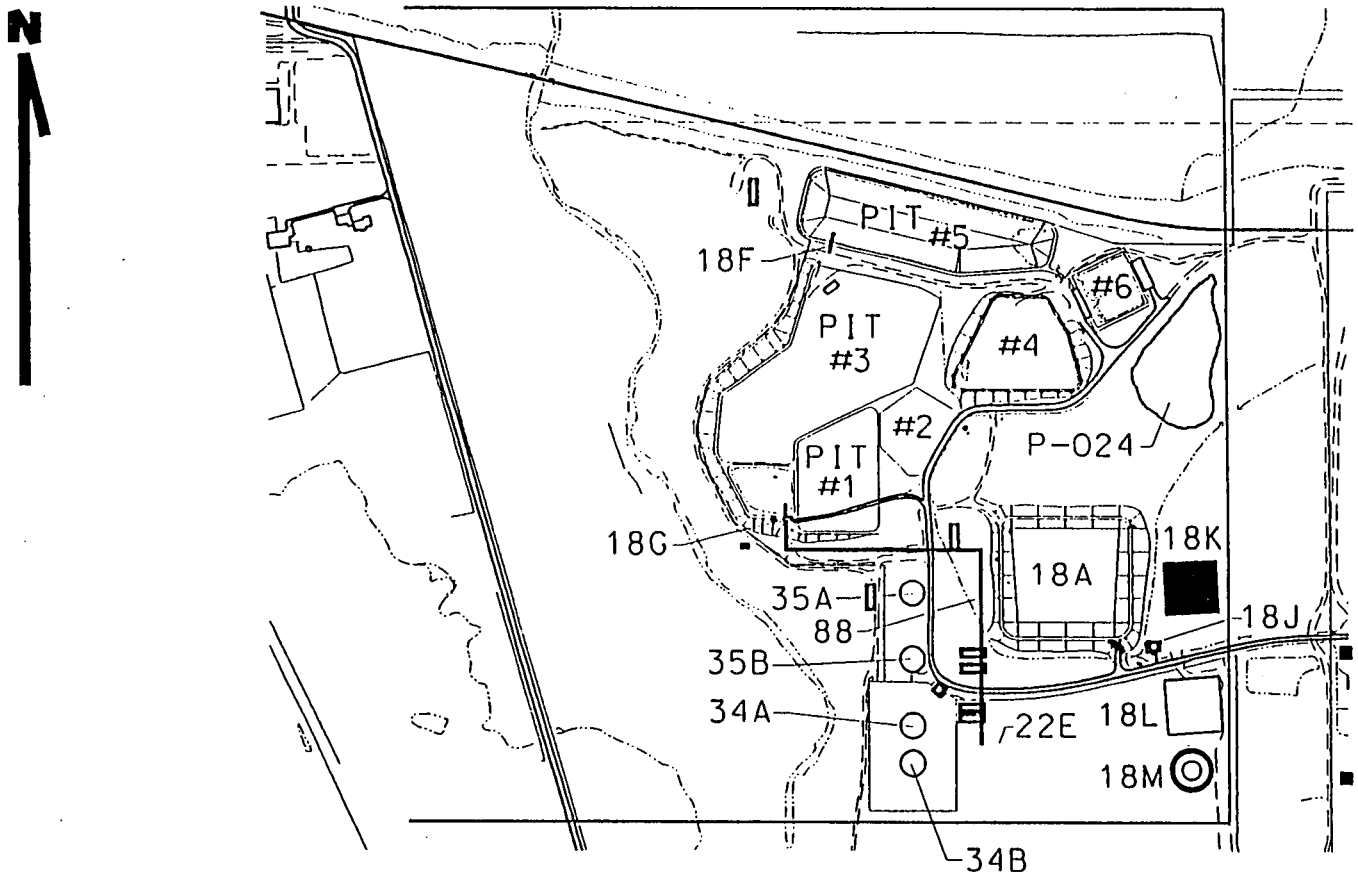
	Assessment	Factor
Protective Clothing	23%	1.821
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		2.003

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	5134	495	0.00	910	2160
SeaLand Boxes	3.37	0.17		NOT APPLICABLE	
7A Boxes	44.62	7.14			
55 Gallon Drums	6.23	19.15			
Total Weight All Material:	596.36 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 393,000
Added Factors, Engineering & Management	2,040,000
On-Site Waste Processing	1,014,000
Off-Site Waste Disposition - Free Release	000
Landfill	2,000
Low Level Waste	411,000
Mixed Waste	40,000
RCRA	000
Total Cost ('92 $)	$ 3,899,000
Escalated Cost ('95 $)	$ 4,261,000



18A BIODENITRIFICATION LAGOON
18F PIT #5 SLUICE GATE
18G CLEARWELL PUMP HOUSE
18J METHANOL TANK
18K LOW NITRATE TANK
18L HIGH NITRATE TANK
18M HIGH NITRATE STORAGE TANK
22E UTILITY TRENCH TO PIT AREA
34A K-65 STORAGE TANK (NORTH)
34B K-65 STORAGE TANK (SOUTH)
35A METAL OXIDE STORAGE TANK (NORTH)
35B METAL OXIDE STORAGE TANK (SOUTH)
88 CLEARWELL LINE
P-024 DIRT PILE NW RUBBLE PILES

0' 400' 800'

GRID NO.31 STRUCTURE 18K LOW NITRATE TANK

000108

5545

5545

Structure 18K: Low Nitrate Tank	Group 6: Ponds and Basins -

Description: A 180- x 180-ft polymer-lined temporary steel-sided reservoir of 1,000,000-gal capacity.

Environmental note: 32,400 sq. ft., grass surround, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
Nitrates

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

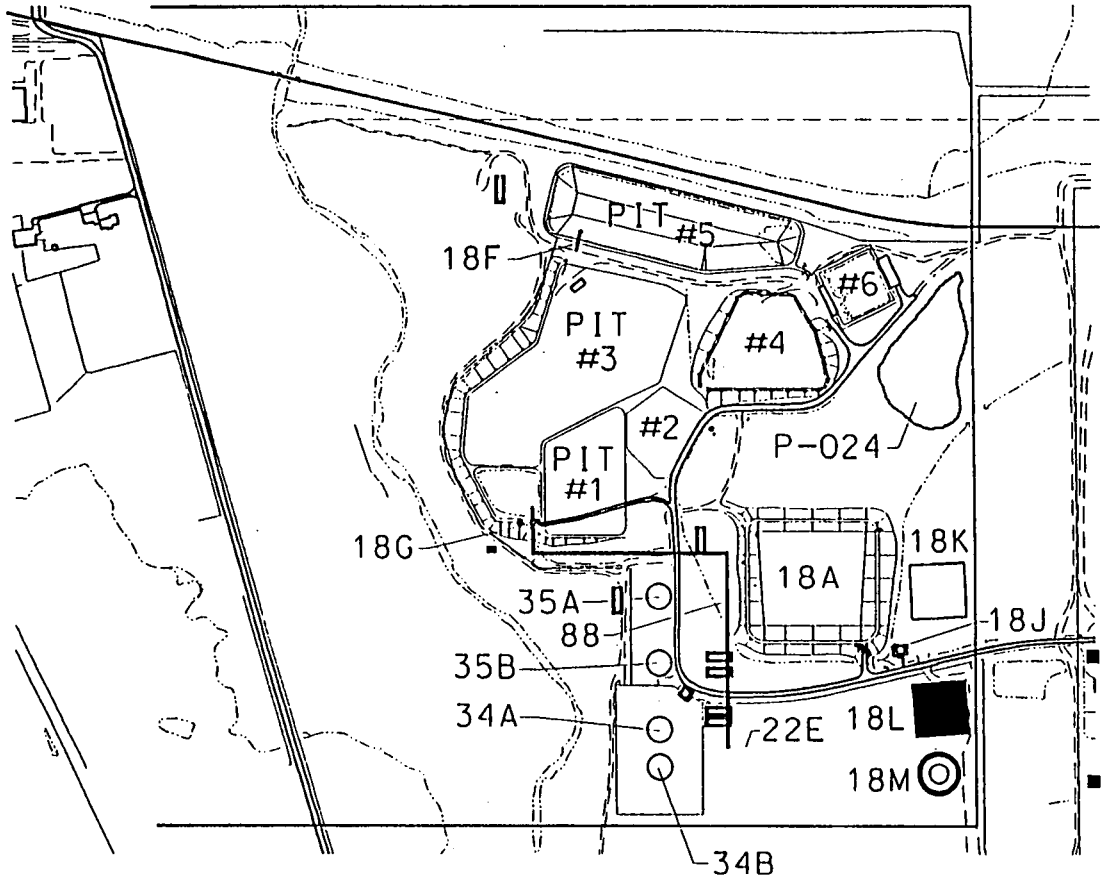
	Assessment	Factor
Protective Clothing	13%	1.464
Building Height	N/A	
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.464

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	122	37	0.00	37	54
SeaLand Boxes	0.01	0.04		NOT APPLICABLE	
7A Boxes	6.28	0.13			
55 Gallon Drums	1.81	3.83			
Total Weight All Material:			21.93 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 49,000
Added Factors, Engineering & Management	234,000
On-Site Waste Processing	47,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	10,000
Mixed Waste	3,000
RCRA	000
Total Cost ('92 $)	$ 342,000
Escalated Cost ('95 $)	$ 374,000



18A BIODENITRIFICATION LAGOON
18F PIT #5 SLUICE GATE
18G CLEARWELL PUMP HOUSE
18J METHANOL TANK
18K LOW NITRATE TANK
18L HIGH NITRATE TANK
18M HIGH NITRATE STORAGE TANK
22E UTILITY TRENCH TO PIT AREA
34A K-65 STORAGE TANK (NORTH)
34B K-65 STORAGE TANK (SOUTH)
35A METAL OXIDE STORAGE TANK (NORTH)
35B METAL OXIDE STORAGE TANK (SOUTH)
88 CLEARWELL LINE
P-024 DIRT PILE NW RUBBLE PILES

0' 400' 800'

GRID NO.31 STRUCTURE 18L HIGH NITRATE TANK

Structure 18L: High Nitrate Tank	Group 6: Ponds and Basins -	5545

Description: A 180- x 180-ft polymer-lined temporary steel-sided reservoir of 1,000,000-gal capacity.

Environmental note: 32,400 sq. ft., grass surround, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
Nitrates

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

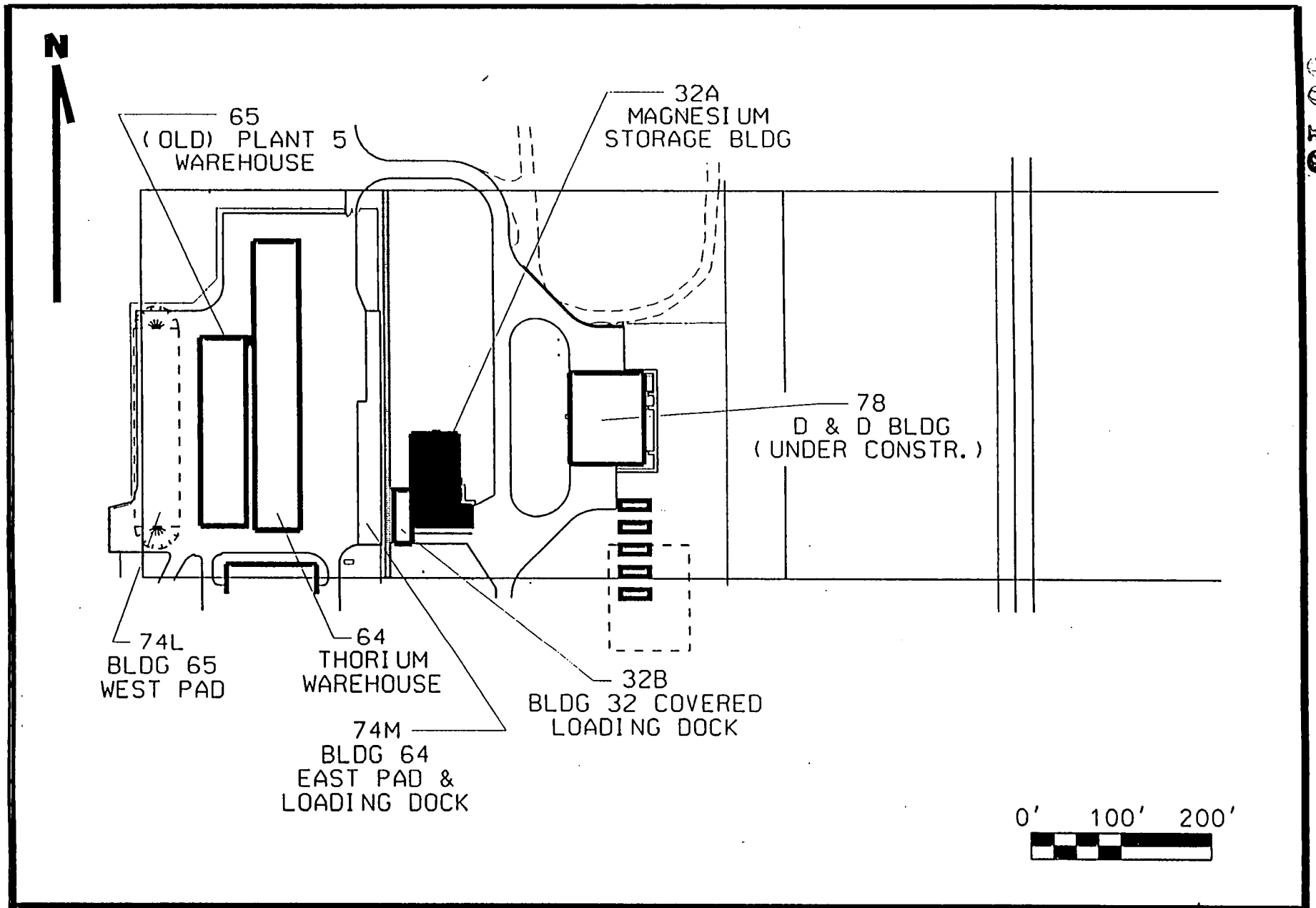
	Assessment	Factor
Protective Clothing	13%	1.464
Building Height	N/A	
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.464

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	172	47	0.00	62	81
SeaLand Boxes	0.03	0.09		NOT APPLICABLE	
7A Boxes	7.08	0.26			
55 Gallon Drums	3.27	3.83			
Total Weight All Material:			28.13 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 64,000
Added Factors, Engineering & Management	343,000
On-Site Waste Processing	61,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	14,000
Mixed Waste	4,000
RCRA	000
Total Cost ('92 $)	$ 486,000
Escalated Cost ('95 $)	$ 531,000



GRID NO.2 STRUCTURE 32A MAGNESIUM STORAGE BLDG

G00112

2545

Structure 32A: Magnesium Storage Building	Group 1A: Buildings - Warehouse/Storage

Description: 52- x 103- x 17-ft single-level building, 17 ft high.

Building Type B: Consists of cement block construction on reinforced poured concrete footers, with reinforced poured concrete floors, glass windows, and flat reinforced poured concrete roofs. Typically these structures are volumetrically composed of approximately 50% cinder block and 50% concrete. Larger structures also employ reinforced concrete columns and/or steel frames. Reinforced poured concrete second floors may be present in some structures.

Environmental note: 5356 sq. ft., grass to north & east, distant habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
Acetone
Cesium 137
Magnesium (Mg)
Methyl ethyl ketone also Butanone (MEK)
Methylene Chloride (Dichloromethane)
Strontium (Sr) 90
Technetium (Tc) 99
Tetrachloroethene
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

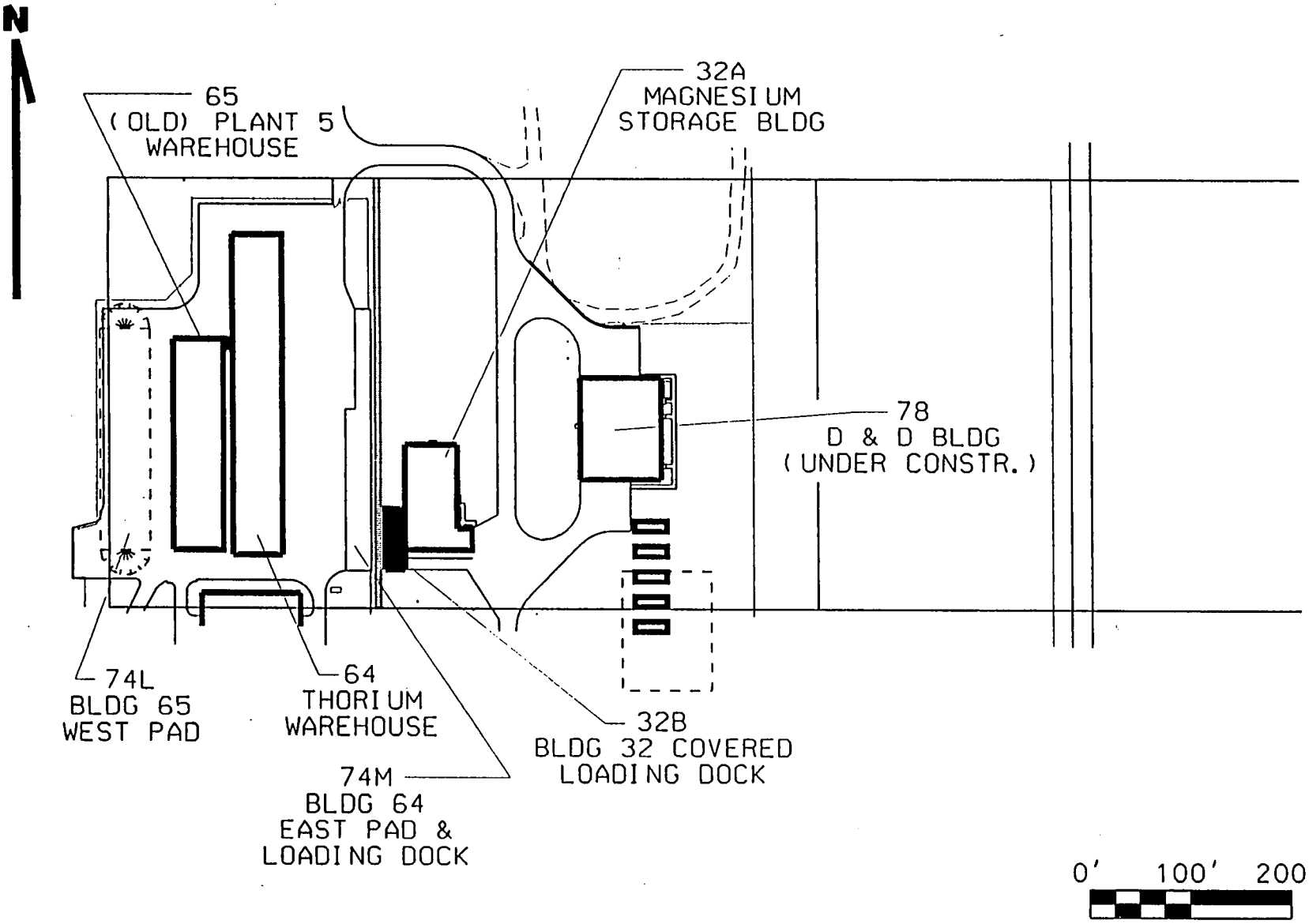
	Assessment	Factor
Protective Clothing	3%	1.107
Building Height	N/A	
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.107

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	4533	45	0.00	381	10097
SeaLand Boxes	0.55	0.26		NOT APPLICABLE	
7A Boxes	79.58	0.40			
55 Gallon Drums	4.58	3.41			
Total Weight All Material: 1148.01 Tons					

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 304,000
Added Factors, Engineering & Management	1,062,000
On-Site Waste Processing	566,000
Off-Site Waste Disposition - Free Release	000
Landfill	10,000
Low Level Waste	363,000
Mixed Waste	4,000
RCRA	000
Total Cost ('92 $)	$ 2,308,000
Escalated Cost ('95 $)	$ 2,522,000



GRID NO.2 STRUCTURE 32B BLDG 32 COVERED LOADING DOCK

000114

5545

Structure 32B: Building 32 Covered Loading Dock	Group 1A: Buildings - Warehouse/Storage

Description: Covered concrete railroad dock, approximately 20 x 60 ft.

Environmental note: 1200 sq. ft., grass/gravel, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Magnesium (Mg)
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

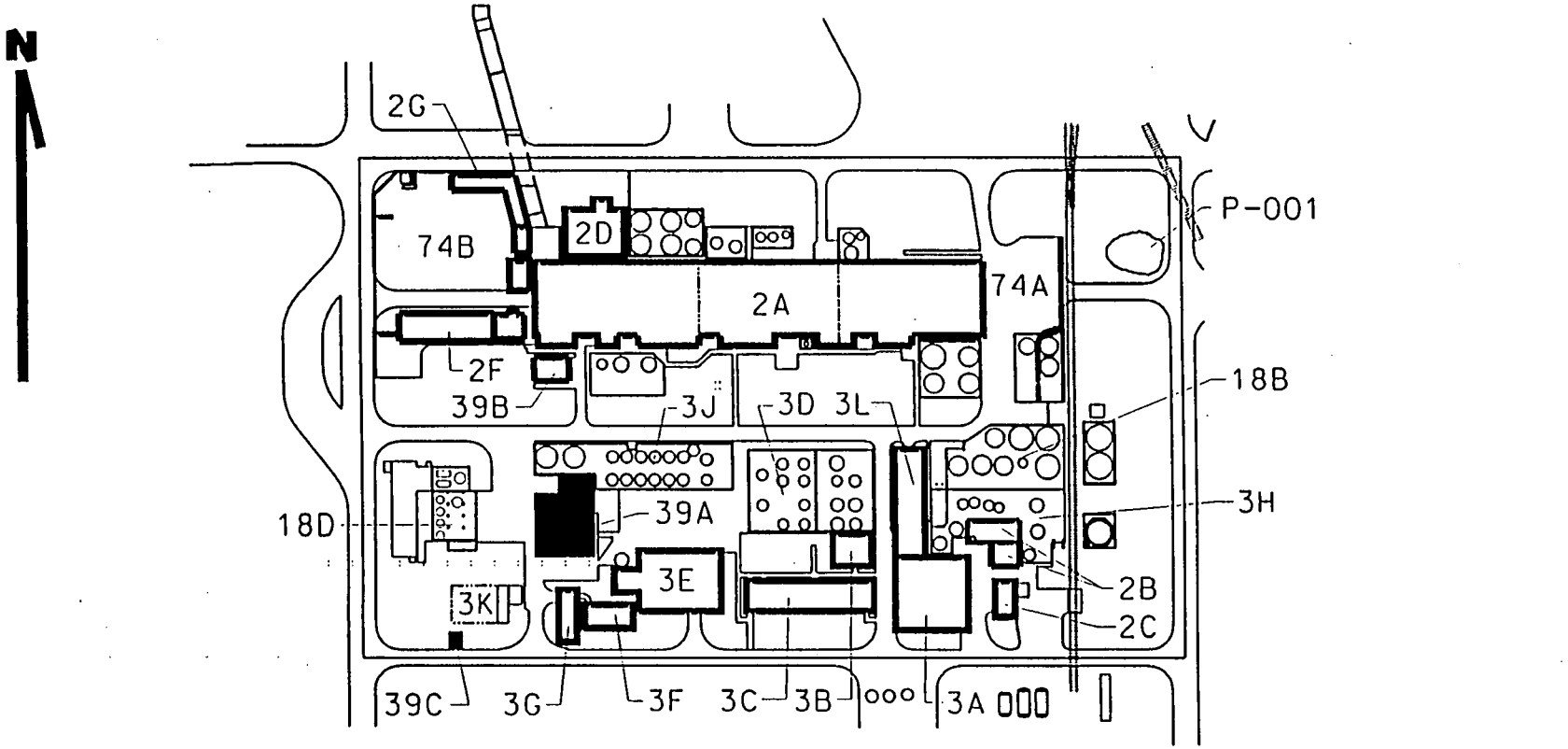
	Assessment	Factor
Protective Clothing	0%	1.000
Building Height	N/A	
Plant Operation	N/A	
Building Size	Standard	0.050
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.050

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	100	1	0.00	46	0
SeaLand Boxes	0.14			NOT APPLICABLE	
7A Boxes	1.20				
55 Gallon Drums	0.27	0.85			
Total Weight All Material:			15.91 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 22,000
Added Factors, Engineering & Management	119,000
On-Site Waste Processing	12,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	8,000
Mixed Waste	000
RCRA	000
Total Cost ('92 $)	$ 161,000
Escalated Cost ('95 $)	$ 176,000



2A ORE REFINERY PLANT
2B GENERAL/REFINERY SUMP CONTROL BLDG
2C BULK LIME HANDLING BLDG
2D METAL DISSOLVER BLDG
2E NFS STORAGE & PUMP HOUSE
2F COLD SIDE ORE CONVEYOR
2G HOT SIDE ORE CONVEROR
3A MAINTENANCE BLDG
3B OZONE BLDG
3C NAR CONTROL HOUSE
3D NAR TOWERS
3E HOT RAFFINATE BLDG
3F HARSHAW SYSTEM
3G REFRIGERATION BLDG
3H REFINERY SUMP
3J COMBINED RAFFINATE TANKS
3K OLD COOLING WATER TOWER
3L ELECTRICAL POWER CENTER BLDG

18B GENERAL SUMP
18D BIODENITRIFICATION TOWERS
39A INCINERATOR BLDG
39B WASTE OIL DECANT SHELTER
39C INCINERATOR SPRINKLER RISER HOUSE
74A PLANT 2 EAST PAD
74B PLANT 2 WEST PAD
P-001 DIRT PILE EAST OF PLANT 2

GRID NO.19 STRUCTURE 39A INCINERATOR BLDG

000116
5545

Structure 39A: Incinerator Building	Group 1C: Buildings - Warehouse/Storage

Description: Approximately 52- x 54-ft multilevel building, 37 ft high with 2 floors.

Building Type A: Consists of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, transite (concrete panels reinforced with asbestos fiber) siding panels with insulation sandwiched between inner and outer panels, transite interior walls, transite roof panels, lead bolt covers and sill moldings, glass windows, some with basement sections, most with sloped roof. Approximation of a typical volumetric content of concrete, steel, and transite is not practical, since each facility varies greatly in volume-to-perimeter ratio.

Environmental note: 2808 sq. ft., gravel/asphalt, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(A)	76	121	3	9000	25000	3	137	265	3	139000	800000	6
(F)	53	53	5	1000	2000	26	71	73	5	18000	80000	29
Summary	65	121	8	5000	25000	29	104	265	8	78500	800000	35

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
Acetone
Hydraulic Oil
Methylene Chloride (Dichloromethane)
Nitric Acid (HNO3)
Oil (Lubricating, Cutting, Fuel & Motor Oils)
Perchloroethylene
Raffinates (Misc.)
Spent Solvents
Sump Cakes
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)
Trichloroethylene (TCE)
UO3 (Orange Oxide)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
:Near Operator/Inc. Bldg.	1660	2340	2080	4	1930	4470	2950	4
SUMMARY	1660	2340	2080	4	1930	4470	2950	4

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

	Assessment	Factor
Protective Clothing	12%	1.429
Building Height	Standard	0.300
Plant Operation	Standard	0.100
Building Size	N/A	
Space Requirements	Standard	0.100
Concentration of Equipment	Standard	0.143
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		2.348

WASTE STREAM VOLUMES

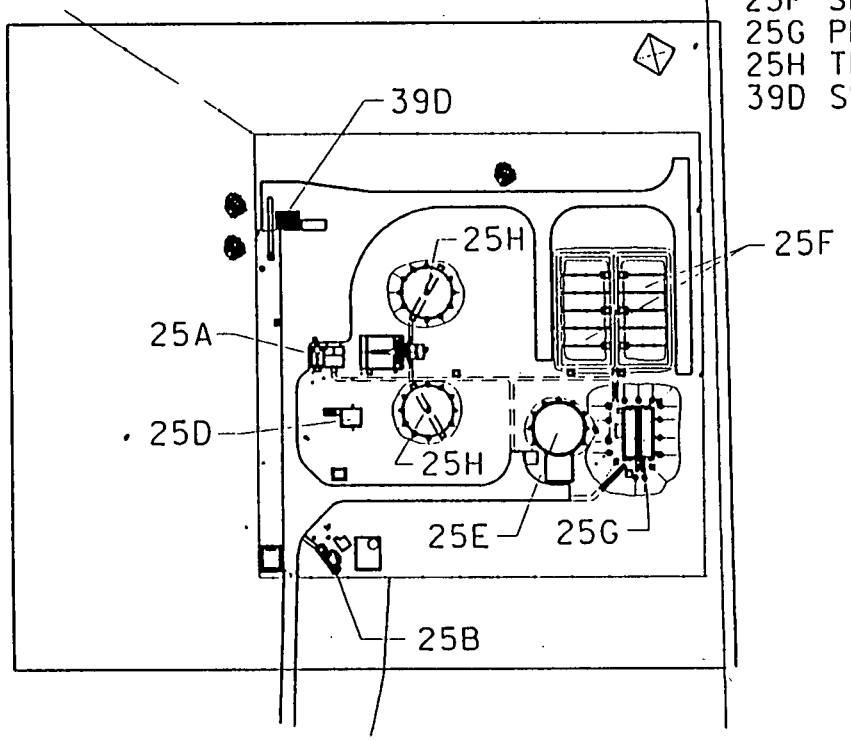
	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	4579	172	0.00	633	2397
SeaLand Boxes	7.24	0.17		NOT APPLICABLE	
7A Boxes	19.99	3.06			
55 Gallon Drums	13.94	2.66			
Total Weight All Material:	522.44 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 474,000
Added Factors, Engineering & Management	2,620,000
On-Site Waste Processing	663,000
Off-Site Waste Disposition - Free Release	000
Landfill	2,000
Low Level Waste	366,000
Mixed Waste	14,000
RCRA	000
Total Cost ('92 $)	$ 4,139,000
Escalated Cost ('95 $)	$ 4,523,000

000118

5545



25A CHLORINATION BLDG
25B MH #175/EEE. LINE/SAMPLING BLDG
25D UV DISINFECTION BLDG
25E DIGESTER & CONTROL BLDG
25F SLUDGE DRYING BEDS
25G PRIMARY SETTLING BASINS
25H TRICKLING FILTERS
39D SEWAGE TREATMENT PLANT INCINERATOR

0' 100' 200'

GRID NO.32 STRUCTURE 39D SEWAGE TREATMENT PLANT INCINERATOR

Structure 39D: Sewage Treatment Plant Incinerator	Group 5A: Piping, utilities, equipment - Aboveground

Description: Outdoor waste incinerator equipment situated on a 16- x 20-ft concrete pad.

Environmental note: 320 sq. ft., habitat unknown

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(A)										1000000	1000000	1
(F)										179000	800000	14
(I)										150000	150000	1
Summary										443000	1000000	16

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Hydraulic Oil
Oil (Lubricating, Cutting, Fuel & Motor Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

	Assessment	Factor
Protective Clothing	0%	1.000
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.100

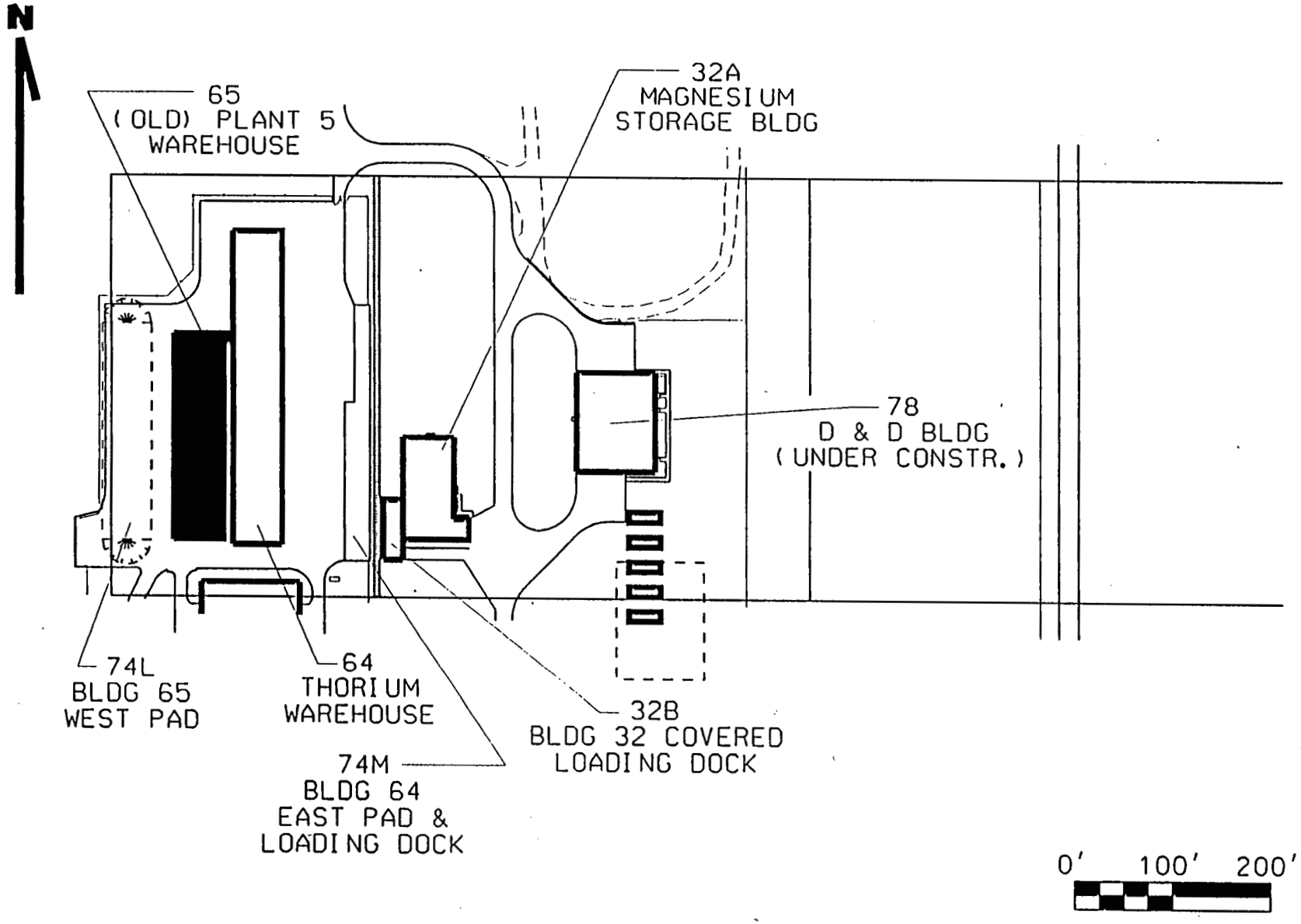
WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	88	6	0.00	165	0
SeaLand Boxes	0.28	0.04		NOT APPLICABLE	
7A Boxes	1.25				
55 Gallon Drums	1.24	0.38			
Total Weight All Material:	34.79 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 49,000
Added Factors, Engineering & Management	282,000
On-Site Waste Processing	15,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	7,000
Mixed Waste	000
RCRA	000
Total Cost ('92 $)	$ 354,000
Escalated Cost ('95 $)	$ 387,000

000120



GRID NO.2 STRUCTURE 65 (OLD) PLANT 5 WAREHOUSE

5545

Structure 65: (Old) Plant 5 Warehouse	Group 1A: Buildings - Warehouse/Storage

Description: 50- x 210- x 22-ft single-level building, 22 ft high.

Building Type C: A pre-engineered facility consisting of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, sloped steel roof panels, steel siding panels (some with insulation sandwiched between inner and outer panels), and glass windows. Typically these structures are volumetrically composed of approximately 40% steel and 60% concrete.

Environmental note: 10,500 sq. ft., asphalt surround, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Radium (Ra)
Strontium (Sr) 90
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

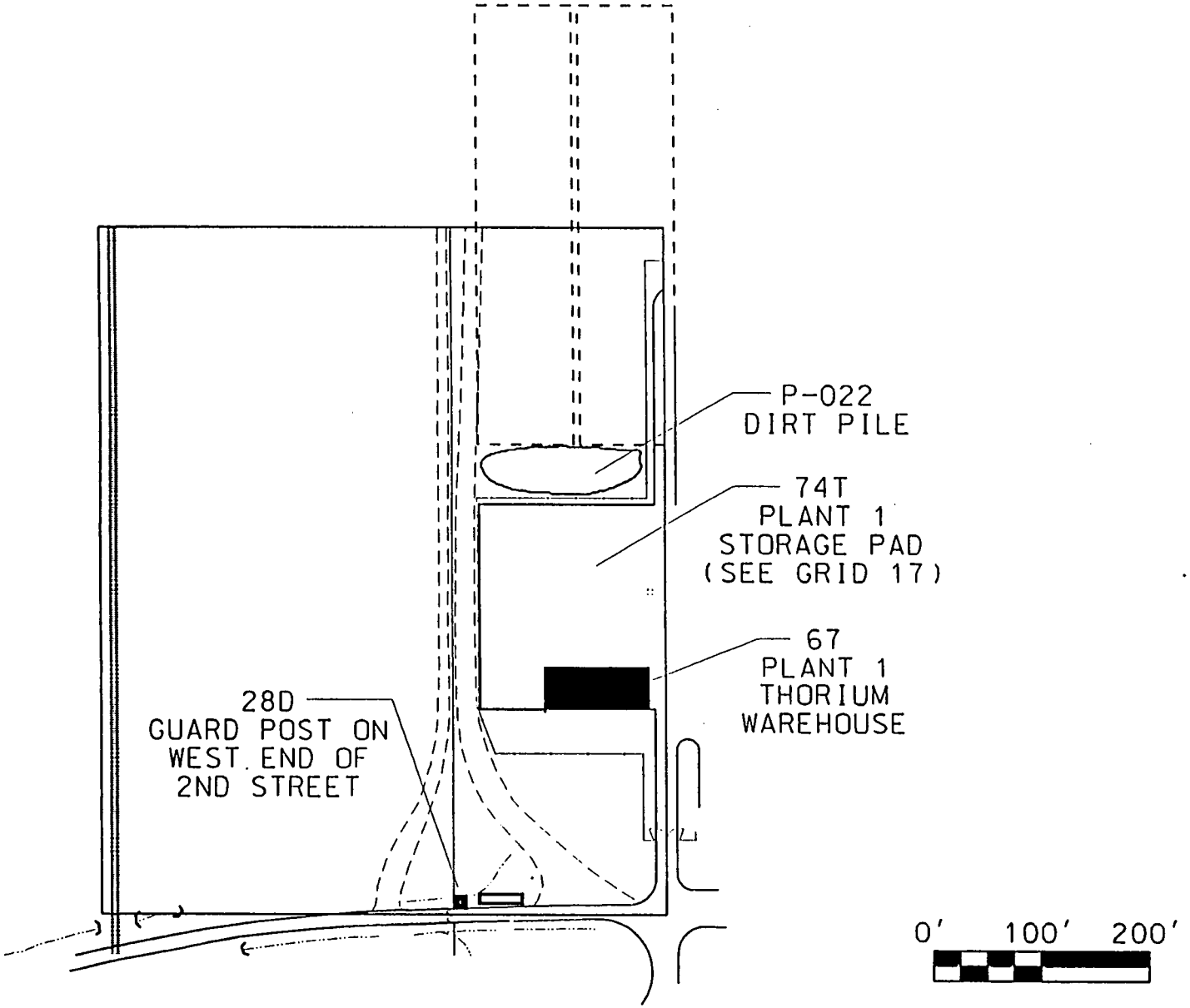
	Assessment	Factor
Protective Clothing	12%	1.429
Building Height	Standard	0.300
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.858

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	1239	65	0.00	817	1200
SeaLand Boxes	0.83	0.86		NOT APPLICABLE	
7A Boxes	31.79				
55 Gallon Drums	10.46				
Total Weight All Material:	460.66 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 459,000
Added Factors, Engineering & Management	2,035,000
On-Site Waste Processing	200,000
Off-Site Waste Disposition - Free Release	000
Landfill	1,000
Low Level Waste	99,000
Mixed Waste	5,000
RCRA	000
Total Cost ('92 $)	$ 2,800,000
Escalated Cost ('95 $)	$ 3,059,000



GRID NO.24 STRUCTURE 67 PLANT 1 THORIUM WAREHOUSE

000122

95475

Structure 67: Plant 1 Thorium Warehouse	Group 1A: Buildings - Warehouse/Storage

Description: 40- x 100- x 22-ft single-level building, 22 ft high.

Building Type C: A pre-engineered facility consisting of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, sloped steel roof panels, steel siding panels (some with insulation sandwiched between inner and outer panels), and glass windows. Typically these structures are volumetrically composed of approximately 40% steel and 60% concrete.

Environmental note: 4000 sq. ft., asphalt surround, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

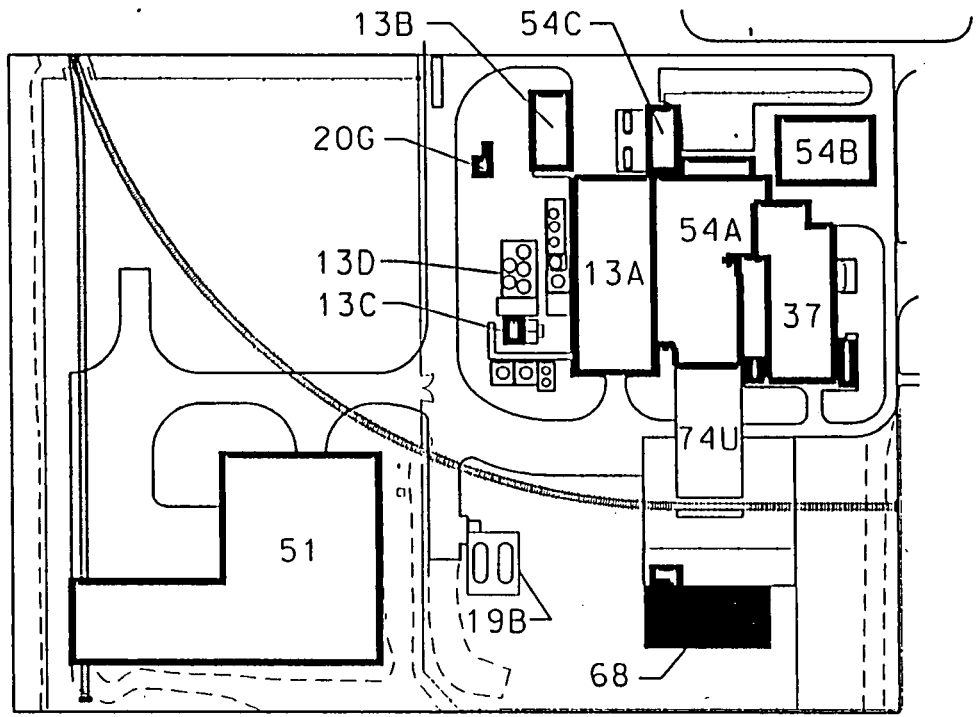
	Assessment	Factor
Protective Clothing	10%	1.357
Building Height	Standard	0.300
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.764

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	337	7	0.00	296	89
SeaLand Boxes	0.34	0.09		NOT APPLICABLE	
7A Boxes	6.58				
55 Gallon Drums	2.93				
Total Weight All Material:	107.21 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 139,000
Added Factors, Engineering & Management	650,000
On-Site Waste Processing	44,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	27,000
Mixed Waste	1,000
RCRA	000
Total Cost ('92 $)	$ 860,000
Escalated Cost ('95 $)	$ 940,000



13A PILOT PLANT WET SIDE
13B PILOT PLANT MAINTENANCE BLDG
13C SUMP PUMP HOUSE
13D PILOT PLANT THORIUM TANK FARM
19B PILOT PLANT AMMONIA TANK FARM
20G WELL HOUSE
37 PILOT PLANT ANNEX
51 SIX TO FOUR REDUCTION FACILTY #2
54A SIX TO FOUR REDUCTION FACILITY #1
54B PILOT PLANT SHELTER
54C PILOT PLANT DISSOCIATOR SHELTER
68 PILOT PLANT WAREHOUSE
74U PILOT PLANT PAD

0' 100' 200'

GRID NO.26 STRUCTURE 68 PILOT PLANT WAREHOUSE

000124

Structure 68: Pilot Plant Warehouse	Group 1A: Buildings - Warehouse/Storage

Description: 50- x 100- x 14-ft single-level building, 14 ft high, with significant concrete content.

Building Type A: Consists of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, transite (concrete panels reinforced with asbestos fiber) siding panels with insulation sandwiched between inner and outer panels, transite interior walls, transite roof panels, lead bolt covers and sill moldings, glass windows, some with basement sections, most with sloped roof. Approximation of a typical volumetric content of concrete, steel, and transite is not practical, since each facility varies greatly in volume-to-perimeter ratio.

Environmental note: 5000 sq. ft., grass field to south, gravel/asphalt surround, no habitat close

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
(F)	203	1100	46				281	922	46			
Summary	203	1100	46				281	922	46			

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Thorium (Th) (Includes Thorium Contaminated Waters and Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

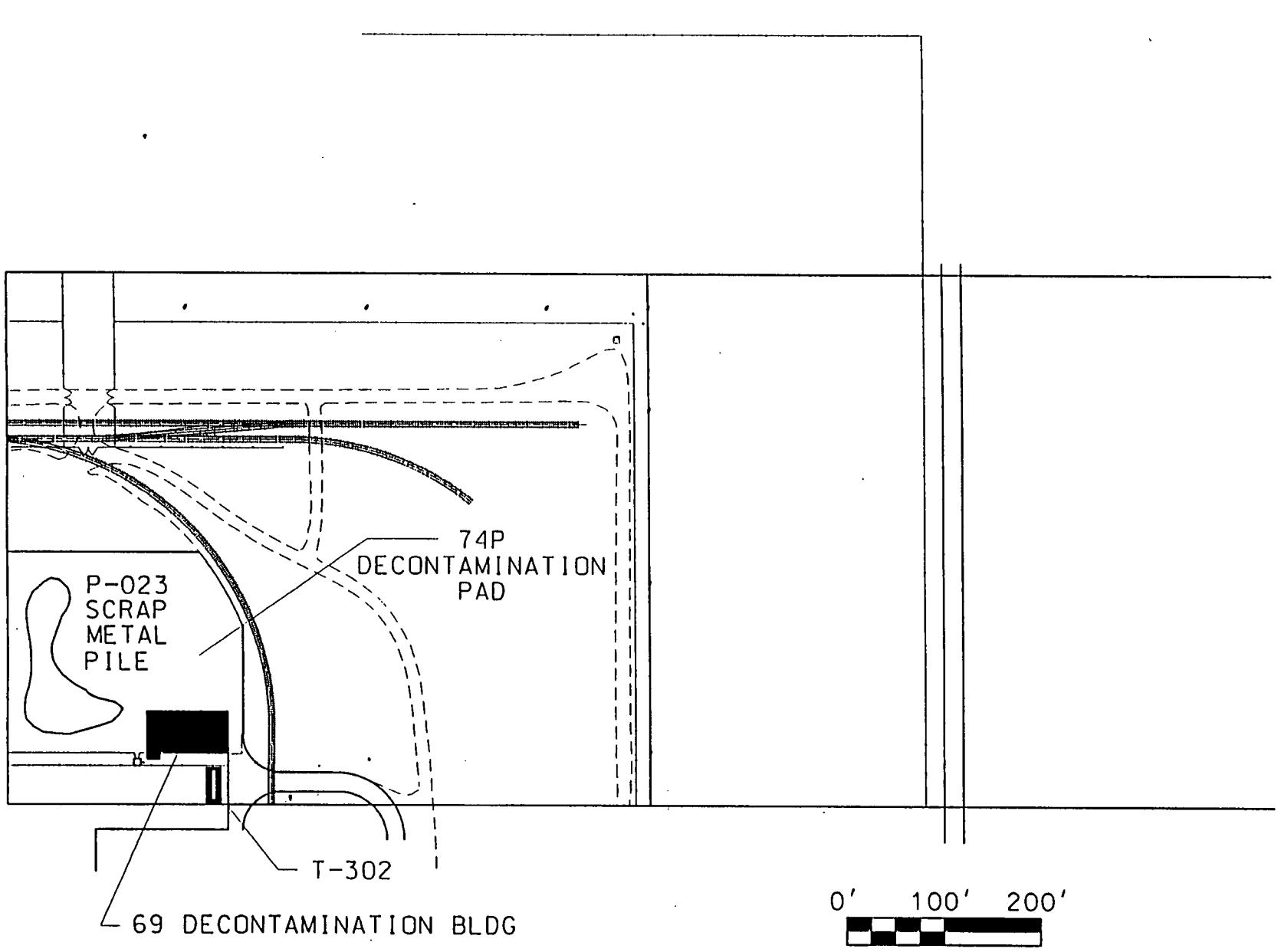
	Assessment	Factor
Protective Clothing	12%	1.429
Building Height	N/A	
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.429

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	3283	11	0.00	226	4403
SeaLand Boxes	6.50	0.13		NOT APPLICABLE	
7A Boxes	4.71				
55 Gallon Drums	7.17	0.85			
Total Weight All Material:	505.68 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 349,000
Added Factors, Engineering & Management	1,390,000
On-Site Waste Processing	381,000
Off-Site Waste Disposition - Free Release	000
Landfill	4,000
Low Level Waste	263,000
Mixed Waste	1,000
RCRA	000
Total Cost ('92 $)	$ 2,388,000
Escalated Cost ('95 $)	$ 2,609,000



GRID NO.1 STRUCTURE 69 DECONTAMINATION BLDG

000126

65 45

Structure 69: Decontamination Building	Group 1C: Buildings - Warehouse/Storage

Description: 43- x 83- x 18-ft single-level building, 18 ft high.

Building Type B: Consists of cement block construction on reinforced poured concrete footers, with reinforced poured concrete floors, glass windows, and flat reinforced poured concrete roofs. Typically these structures are volumetrically composed of approximately 50% cinder block and 50% concrete. Larger structures also employ reinforced concrete columns and/or steel frames. Reinforced poured concrete second floors may be present in some structures.

Environmental note: 3569 sq. ft., gravel/ashpalt suround, open fields E, W & N, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Methyl ethyl ketone also Butanone (MEK)
Nitric Acid (HNO3)
Sodium Hydroxide (NaOH)
Sodium Silicate
Thorium (Th) (Includes Thorium Contaminated Waters and Oils)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
Decontamination	456	9820	2870	12	290	5890	2160	12
Decontamination	705	16100	4920	12	858	10500	3820	12
SUMMARY	456	16100	3895	24	290	10500	2990	24

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

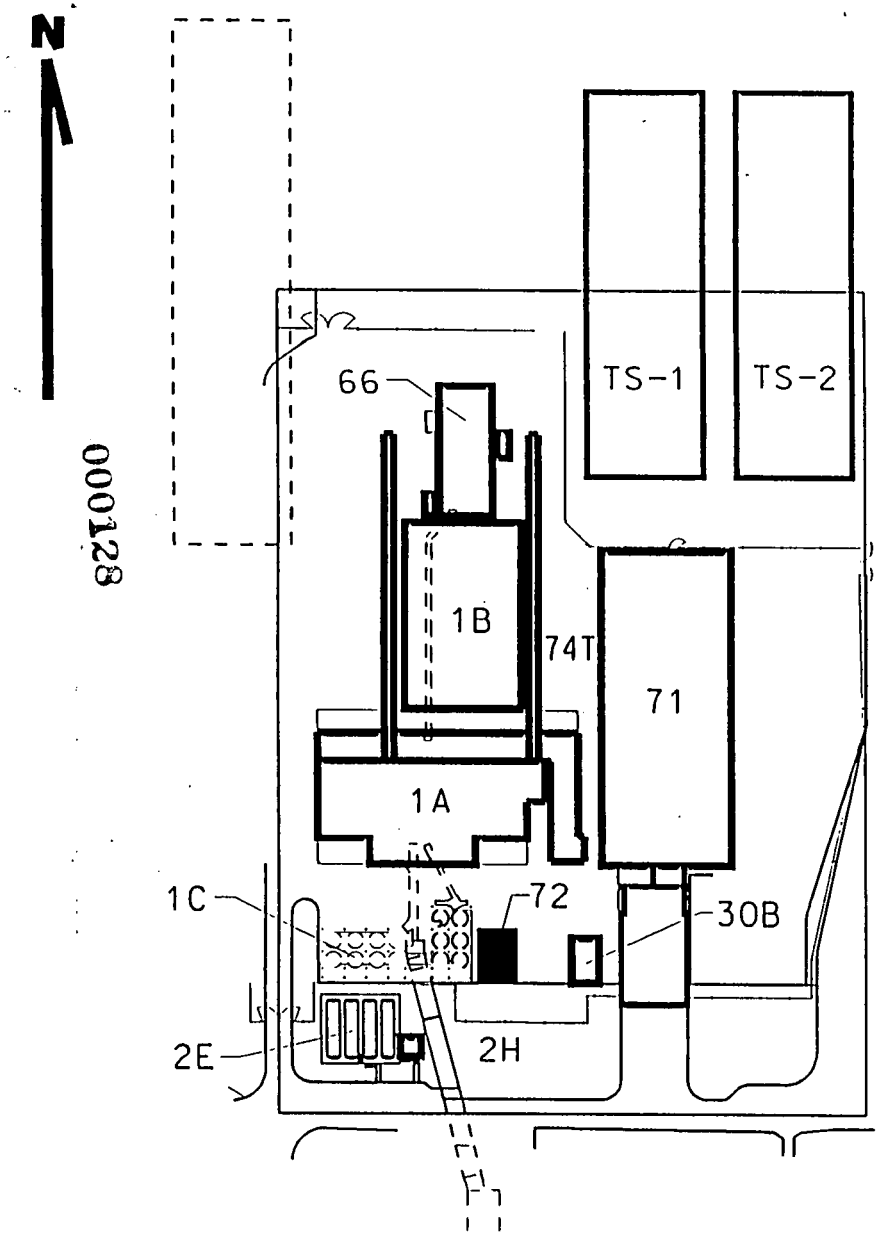
	Assessment	Factor
Protective Clothing	10%	1.357
Building Height	Standard	0.300
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.764

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	2888	496	0.00	1587	7663
SeaLand Boxes	0.66	1.30		NOT APPLICABLE	
7A Boxes	53.02	6.87			
55 Gallon Drums	17.61	8.51			
Total Weight All Material:	1139.51 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 653,000
Added Factors, Engineering & Management	3,223,000
On-Site Waste Processing	789,000
Off-Site Waste Disposition - Free Release	000
Landfill	8,000
Low Level Waste	231,000
Mixed Waste	40,000
RCRA	000
Total Cost ('92 $)	$ 4,944,000
Escalated Cost ('95 $)	$ 5,403,000



1A PREPARATION PLANT
1B PLANT 1 STORAGE BLDG
1C PLANT 1 ORE SILOS
2E NFS STORAGE & PUMP HOUSE
2H CONVEYOR TUNNEL (FROM PLANT 1)
30B DRUM STORAGE WAREHOUSE
66 DRUM RECONDITIONING BLDG
71 GENERAL IN-PROCESS WAREHOUSE
72 DRUM STORAGE BLDG
*74T PLANT 1 STORAGE PAD
*TS-1 TENSION SUPPORT STRUCTURE #1
*TS-2 TENSION SUPPORT STRUCTURE #2
*TS-3 TENSION SUPPORT STRUCTURE #3

* SEE GRID NO.17 FOR THESE STRUCTURES

0' 100' 200'

GRID NO.27 STRUCTURE 72 DRUM STORAGE BLDG

000128

55416

Structure 72: Drum Storage Building	Group 1A: Buildings - Warehouse/Storage

Description: 31- x 41- x 11-ft single-level building, 11 ft high.

Building Type A: Consists of structural steel frame on reinforced poured concrete base, reinforced poured concrete ground floor, transite (concrete panels reinforced with asbestos fiber) siding panels with insulation sandwiched between inner and outer panels, transite interior walls, transite roof panels, lead bolt covers and sill moldings, glass windows, some with basement sections, most with sloped roof. Approximation of a typical volumetric content of concrete, steel, and transite is not practical, since each facility varies greatly in volume-to-perimeter ratio.

Environmental note: 1271 sq. ft., gravel/grass, no habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

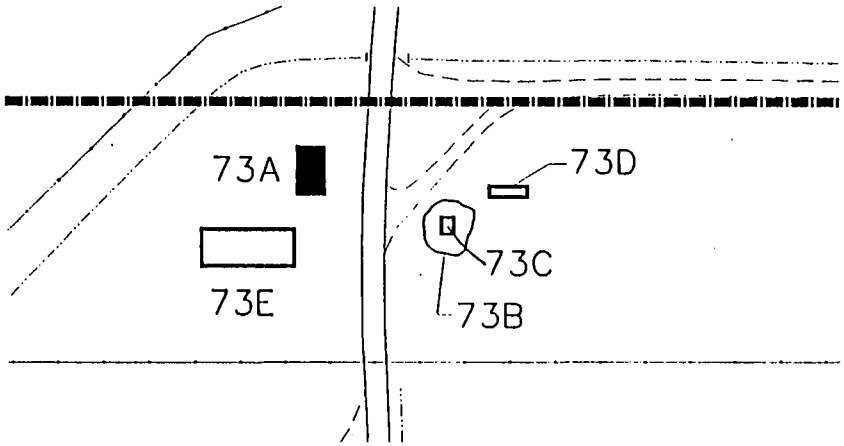
	Assessment	Factor
Protective Clothing	12%	1.429
Building Height	Standard	0.300
Plant Operation	N/A	
Building Size	N/A	
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.858

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	785	3	0.00	65	120
SeaLand Boxes	1.32	0.04		NOT APPLICABLE	
7A Boxes	7.24				
55 Gallon Drums	2.84				
Total Weight All Material:			79.17 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 132,000
Added Factors, Engineering & Management	614,000
On-Site Waste Processing	89,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	63,000
Mixed Waste	000
RCRA	000
Total Cost ('92 $)	$ 898,000
Escalated Cost ('95 $)	$ 981,000



73A FIRE BRIGADE TRAINING CENTER BLDG
73B FIRE TRAINING POND
73C FIRE TRAINING TANK
73D FIRE TRAINING BURN TROUGH
73E CONFINED SPACE BURN TANK

0' 100' 200'

FIRE TRAINING AREA STRUCTURE 73A
FIRE BRIGADE TRAINING CENTER BLDG

000130

5545

Structure 73A: Fire Brigade Training Center Bldg.	Group 1B: Buildings - Warehouse/Storage

Description: 20- x 30- x 14-ft multilevel building, 14 ft high.

Building Type B: Consists of cement block construction on reinforced poured concrete footers, with reinforced poured concrete floors, glass windows, and flat reinforced poured concrete roofs. Typically these structures are volumetrically composed of approximately 50% cinder block and 50% concrete. Larger structures also employ reinforced concrete columns and/or steel frames. Reinforced poured concrete second floors may be present in some structures.

Environmental note: open field surround, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Tires

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

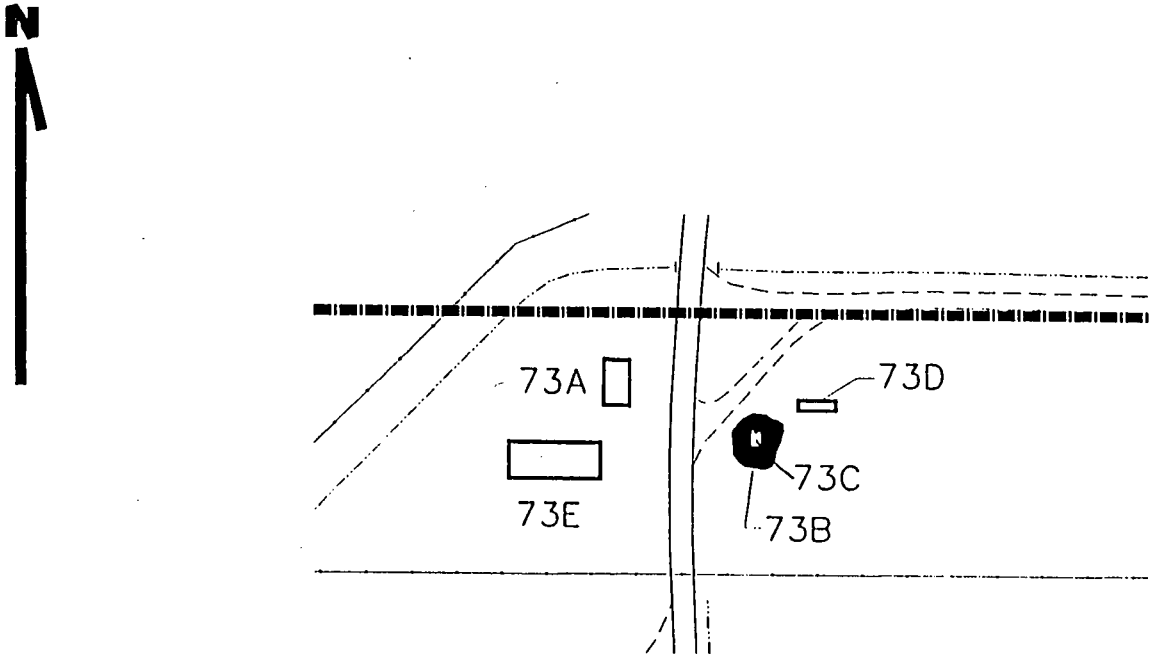
	Assessment	Factor
Protective Clothing	0%	1.000
Building Height	N/A	
Plant Operation	N/A	
Building Size	Standard	0.050
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.050

WASTE STREAM VOLUMES

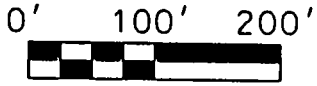
	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	70	2	0.00	0	2085
SeaLand Boxes	0.01	0.02		NOT APPLICABLE	
7A Boxes	1.45				
55 Gallon Drums	0.93				
Total Weight All Material:	163.56 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 42,000
Added Factors, Engineering & Management	164,000
On-Site Waste Processing	15,000
Off-Site Waste Disposition - Free Release	000
Landfill	2,000
Low Level Waste	6,000
Mixed Waste	000
RCRA	000
Total Cost ('92 $)	$ 229,000
Escalated Cost ('95 $)	$ 250,000



73A FIRE BRIGADE TRAINING CENTER BLDG
73B FIRE TRAINING POND
73C FIRE TRAINING TANK
73D FIRE TRAINING BURN TROUGH
73E CONFINED SPACE BURN TANK



FIRE TRAINING AREA STRUCTURE 73B
FIRE TRAINING POND

Structure 73B: Fire Training Pond	Group 6: Ponds and Basins -

Description: A 45-ft diameter pond and drain pit.

Environmental note: open field surround, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

1,1,1-Trichloroethane
1,1-Dichloroethane
1,2-Dichloroethene
Acetone
Hydraulic Oil
Methyl ethyl ketone also Butanone (MEK)
Methylene Chloride (Dichloromethane)
Oil (Lubricating, Cutting, Fuel & Motor Oils)
Tetrachloroethene
Toluene
Trichloroethylene (TCE)
Waste Paint Solvents and Thinners

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

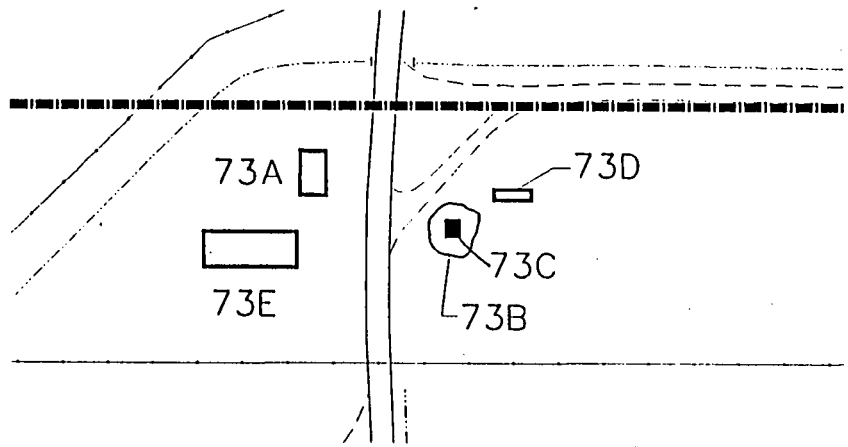
	Assessment	Factor
Protective Clothing	4%	1.143
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.257

WASTE STREAM VOLUMES

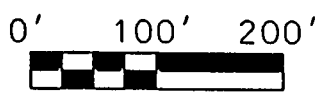
	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	13	2473	3520.80	0	0
SeaLand Boxes				NOT APPLICABLE	
7A Boxes	0.11	14.25	57.02		
55 Gallon Drums	1.11	228.07			
Total Weight All Material:			248.36 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 47,000
Added Factors, Engineering & Management	297,000
On-Site Waste Processing	2,237,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	1,000
Mixed Waste	198,000
RCRA	648,000
Total Cost ('92 $)	$ 3,428,000
Escalated Cost ('95 $)	$ 3,746,000



73A FIRE BRIGADE TRAINING CENTER BLDG
73B FIRE TRAINING POND
73C FIRE TRAINING TANK
73D FIRE TRAINING BURN TROUGH
73E CONFINED SPACE BURN TANK



FIRE TRAINING AREA STRUCTURE 73C
FIRE TRAINING TANK

Structure 73C: Fire Training Tank	Group 2A: Containerized material - Aboveground

Description: A small horizontal tank above the fire training pond.

Environmental note: open field surround, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Metals (Misc.)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

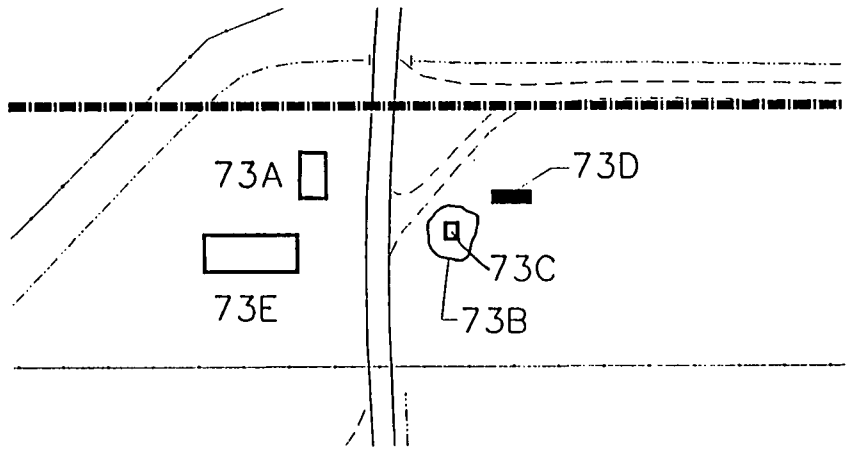
	Assessment	Factor
Protective Clothing	4%	1.143
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.257

WASTE STREAM VOLUMES

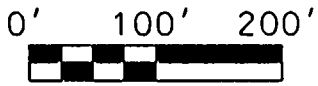
	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	19	18	64.80	12	27
SeaLand Boxes				NOT APPLICABLE	
7A Boxes	0.36	0.86	0.84		
55 Gallon Drums	0.14				
Total Weight All Material:			9.36 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 7,000
Added Factors, Engineering & Management	75,000
On-Site Waste Processing	18,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	2,000
Mixed Waste	1,000
RCRA	12,000
Total Cost ('92 $)	$ 115,000
Escalated Cost ('95 $)	$ 126,000



73A FIRE BRIGADE TRAINING CENTER BLDG
73B FIRE TRAINING POND
73C FIRE TRAINING TANK
73D FIRE TRAINING BURN TROUGH
73E CONFINED SPACE BURN TANK



FIRE TRAINING AREA STRUCTURE 73D
FIRE TRAINING BURN TROUGH

Structure 73D: Fire Training Burn Trough	Group 2B: Containerized material - Aboveground

Description: A steel trough, 4 x 20 ft.

Environmental note: open field surround, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Acetone
Benzoic Acid
Bis(2-ethylhexyl) phthalate
Chloroform
Hydraulic Oil
Magnesium (Mg)
Metals (Misc.)
Methyl ethyl ketone also Butanone (MEK)
Methylene Chloride (Dichloromethane)
N-nitrosodi-phenylamine
Oil (Lubricating, Cutting, Fuel & Motor Oils)
Pentachlorophenol

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

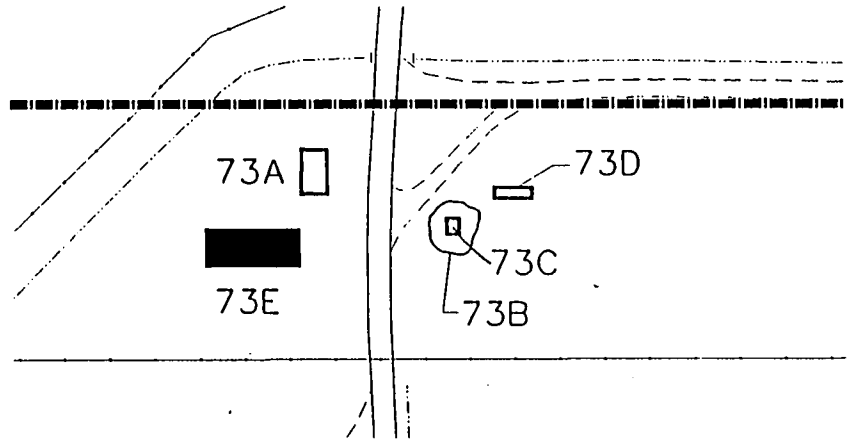
	Assessment	Factor
Protective Clothing	2%	1.071
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.178

WASTE STREAM VOLUMES

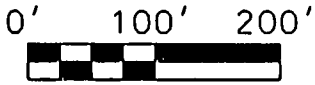
	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	35	0	0.00	8	0
SeaLand Boxes	0.01			NOT APPLICABLE	
7A Boxes	1.39				
55 Gallon Drums	0.14				
Total Weight All Material:			6.39 Tons		

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 8,000
Added Factors, Engineering & Management	75,000
On-Site Waste Processing	4,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	3,000
Mixed Waste	000
RCRA	000
Total Cost ('92 $)	$ 90,000
Escalated Cost ('95 $)	$ 98,000



73A FIRE BRIGADE TRAINING CENTER BLDG
73B FIRE TRAINING POND
73C FIRE TRAINING TANK
73D FIRE TRAINING BURN TROUGH
73E CONFINED SPACE BURN TANK



FIRE TRAINING AREA STRUCTURE 73E
CONFINED SPACE BURN TANK

Structure 73E: Confined Space Burn Tank	Group 2A: Containerized material - Aboveground

5545

Description: An 8-ft diameter horizontal steel storage tank.

Environmental note: open field surround, potential habitat

SUMMARY OF RADIOLOGICAL SURVEYS (DPM/100 SQ CM)

	Alpha Removable			Alpha Total			Beta-Gamma Removable			Beta-Gamma Total		
Location (Category*)	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl	Average	Maximum	Smpl
Summary												

* Legend: (A)=Accessible (F)=Floor (I)=Inaccessible

CONTAMINANTS OF CONCERN

Hydrofluoric Acid (HF) (Aqueous & Anhydrous)

SUMMARY OF AIR QUALITY DATA (10E-16 uCi/ml)

	Alpha				Beta			
Location	Min	Max	Avg	Smpl	Min	Max	Avg	Smpl
SUMMARY								

STRUCTURE SPECIFIC COST ANALYSIS DIFFICULTY FACTORS

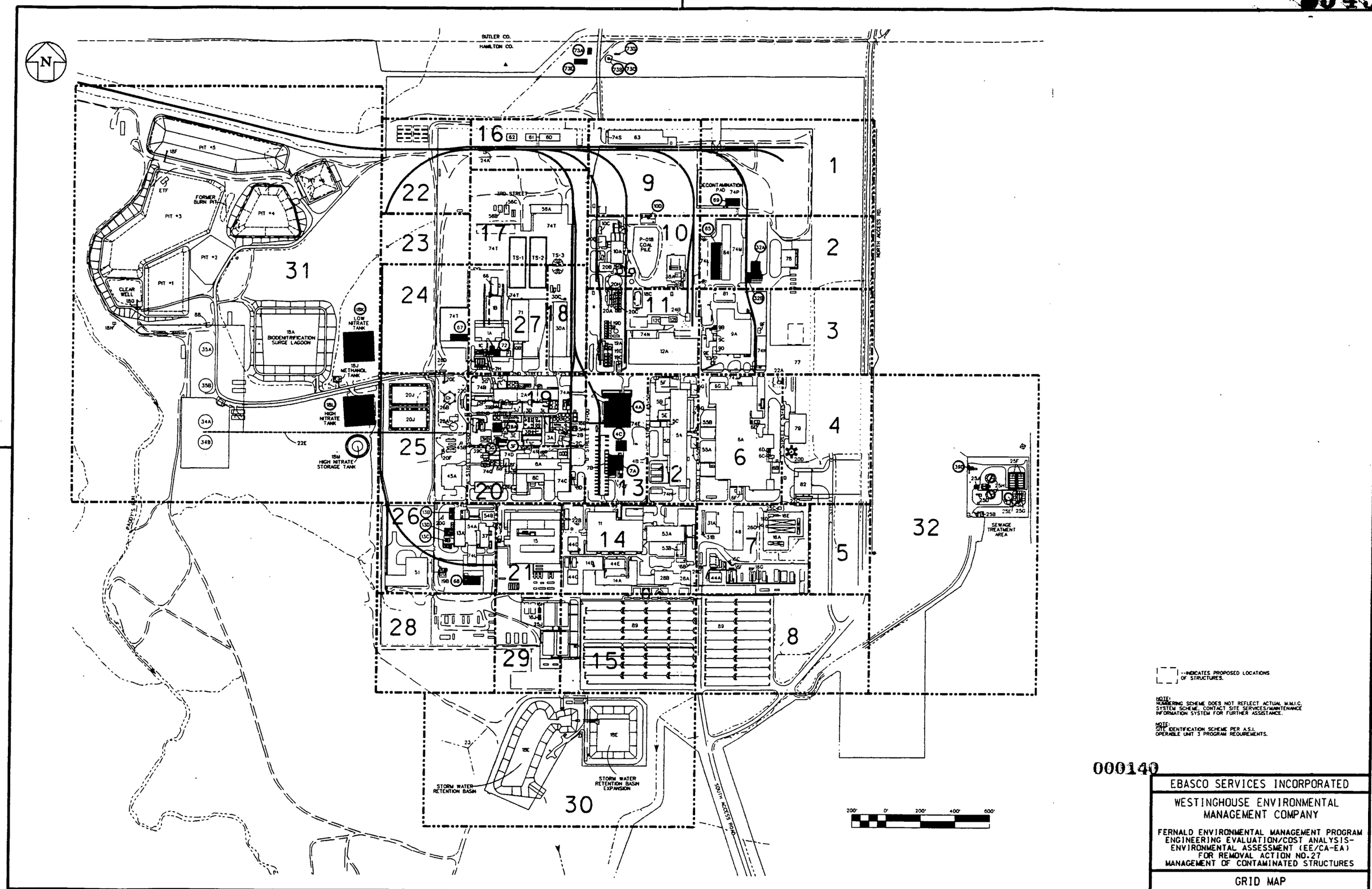
	Assessment	Factor
Protective Clothing	2%	1.071
Building Height	N/A	
Plant Operation	N/A	
Building Size	Above Std	0.100
Space Requirements	N/A	
Concentration of Equipment	N/A	
Accessibility to Building	N/A	
Special Clearance	N/A	
Overall Productivity Factor		1.178

WASTE STREAM VOLUMES

	LLW	MIXED WASTE	RCRA	FREE RELEASE	SANITARY LANDFILL
Analyzed Vol (cft)	6	0	0.00	49	0
SeaLand Boxes				NOT APPLICABLE	
7A Boxes	0.29				
55 Gallon Drums	0.27				
Total Weight All Material:	13.09 Tons				

COST ANALYSIS

Prime Costs for Decontamination & Dismantlement	$ 16,000
Added Factors, Engineering & Management	100,000
On-Site Waste Processing	1,000
Off-Site Waste Disposition - Free Release	000
Landfill	000
Low Level Waste	000
Mixed Waste	000
RCRA	000
Total Cost ('92 $)	$ 118,000
Escalated Cost ('95 $)	$ 129,000



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EBASCO SERVICES INCORPORATED

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT COMPANY

FERNALD ENVIRONMENTAL MANAGEMENT PROGRAM
ENGINEERING EVALUATION/COST ANALYSIS-
ENVIRONMENTAL ASSESSMENT (EE/CA-EA)
FOR REMOVAL ACTION NO.27
MANAGEMENT OF CONTAMINATED STRUCTURES

GRID MAP

APPENDIX E

Waste Stream Volume Tables: Summary by Structure

REMOVAL ACTION #27
WASTE STREAM VOLUMES

ALL STRUCTURES

14-May-93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITARY LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	444.14			8882.75				24.01															
ASBESTOS TRANSITE ROOF	265.40			5307.92				14.35															
INTERIOR 1/4" TRANSITE	59.07			1181.48				3.19															
MARINITE WALL PANEL	306.97			6139.42				16.59															
CEMESTOS ROOFING PANEL	413.63			8272.55				22.36															
ASBESTOS (BAGGED) PIPE	54.76			4380.67	1095.17											84.24	21.06						
RIGID BOARD INSULATION	234.15			23415.00				23.72															
ROOF MATERIAL (ASBESTOS)	315.36			5256.00												90.10							
PCB (MIXED WASTE)	11.15				371.79																53.25		
LEAD MATERIAL	12.07				34.00																28.98		
DEBRIS (GLASS/HRD.)	1102.50		5880.00	1470.00												63.00							
MISC. FABRICATE. STEEL	178.63			729.10												51.04							
STRUCTURAL STEEL	898.64	3484.52		183.40				2.43															
FLOOR PLATE	4336.26	16814.09		884.95				11.72															
SCABBLED CONCRETE	226.05			4521.00												77.28							
CONCRETE RUBBLE	2045.25		27270.00																				
CONCRETE BLOCK	5139.45		68526.00																				
ACID BRICK	232.00			3093.33	773.33											63.45	15.86						
SOIL (CONTAMINATED)	201.69				896.40	3585.60											15.09	57.86					
PROCESS VESSEL (TANK)	191.92	783.36																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	770.69	3145.68																					
PROCESS PIPING	302.38			246.84	987.36			3.27	13.08														
ELEVATOR	29.99	122.40																					
HVAC DUCT (SHEET METAL)	201.67			823.14				10.90															
PLUMBING (PIPE/FIXTURES)	21.49		65.79	21.93				0.29															
STACKS	24.99	51.00		51.00				0.68															
ELECTRICAL GALV. CONDUIT	126.40	5056.00																					
ELECTRICAL COPPER WIRE	551.21	2004.40																					
ELECTRICAL EQUIPMENT	463.50	9270.00		9270.00				12.53															
WOOD (TEMP.STRUCTURE)	150.87			7543.33				8.15															
POLYETHELENE	77.60			1724.41												39.60							
P.P.E.	268.39			5591.56																760.76			
SUMP WATER	49.69				1592.51																228.07		
RAGS, ETC.	6.69			148.64												3.05							
SUBTOTAL	19714.65	40731.45	101741.79	99138.40	5750.56	3585.60		154.18	13.08							471.77	52.01	57.86		760.76	310.30		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

000143

STRUCTURE 3F

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	8.00			640.00	160.00											12.31	3.08						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	0.00				0.13																0.02		
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	1.00			4.08												0.29							
STRUCTURAL STEEL	54.98	213.18		11.22				0.15															
FLOOR PLATE	3021.79	11717.15		616.69				8.17															
SCABBLED CONCRETE																							
CONCRETE RUBBLE	101.25		1350.00																				
CONCRETE BLOCK																							
ACID BRICK	28.00			373.33	93.33											7.66	1.91						
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	16.99	69.36																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	3.00	12.24																					
PROCESS PIPING	12.99			10.61	42.43			0.14	0.56														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)	1.00		3.06	1.02				0.01															
STACKS																							
ELECTRICAL GALV. CONDUI	3.00	120.00																					
ELECTRICAL COPPER WIRE	8.80	32.00																					
ELECTRICAL EQUIPMENT	0.63	12.50		12.50				0.02															
WOOD (TEMP.STRUCTURE)	75.00			3750.00				4.05															
POLYETHELENE	0.76			16.93												0.35							
P.P.E.	4.16			86.67																11.79			
SUMP WATER																							
RAGS, ETC.	0.10			2.29												0.05							
SUBTOTAL	3341.46	12176.43	1353.06	5525.34	295.90			12.54	0.56							20.65	4.99			11.79	0.02		

REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 3G

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	7.42			148.33				0.40															
ASBESTOS TRANSITE ROOF	3.30			66.00				0.18															
INTERIOR 1/4" TRANSITE	1.26			25.17				0.07															
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL	5.15			102.96				0.28															
ASBESTOS (BAGGED) PIPE	0.18			14.67	3.67											0.28	0.07						
RIGID BOARD INSULATION	6.22			622.00				0.63															
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																					0.85		
LEAD MATERIAL	0.36				1.00																		
DEBRIS (GLASS/HRD.)	8.10		43.20	10.80												0.46							
MISC. FABRICATE. STEEL	1.00			4.08												0.29							
STRUCTURAL STEEL	2.00	7.75		0.41				0.01															
FLOOR PLATE																							
SCABBLED CONCRETE	0.90			18.00												0.31							
CONCRETE RUBBLE	2.03		27.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	2.00	8.16																					
PROCESS PIPING	1.00			0.82	3.26			0.01	0.04														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	0.50			2.04				0.03															
PLUMBING (PIPE/FIXTURES)	0.50		1.53	0.51				0.01															
STACKS																							
ELECTRICAL GALV. CONDUI	2.25	90.00																					
ELECTRICAL COPPER WIRE	9.90	36.00																					
ELECTRICAL EQUIPMENT	6.40	128.00		128.00				0.17															
WOOD (TEMP.STRUCTURE)	17.53			876.67				0.95															
POLYETHELENE	1.05			23.44												0.48							
P.P.E.	0.58			12.12																1.65			
SUMP WATER																							
RAGS, ETC.	0.06			1.28												0.03							
SUBTOTAL	79.68	269.91	71.73	2057.28	7.93			2.73	0.04							1.85	0.07			1.65	0.85		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

000145

STRUCTURE 4A

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	233.75			4675.00				12.64															
ASBESTOS TRANSITE ROOF	164.58			3291.67				8.90															
INTERIOR 1/4" TRANSITE	10.68			213.60				0.58															
MARINITE WALL PANEL	233.75			4675.00				12.64															
CEMESTOS ROOFING PANEL	256.75			5135.00				13.88															
ASBESTOS (BAGGED) PIPE	21.77			1741.33	435.33											33.49	8.37						
RIGID BOARD INSULATION	119.60			11960.00				12.11															
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	1.00				33.42																4.79		
LEAD MATERIAL	4.26				12.00																10.23		
DEBRIS (GLASS/HRD.)	450.00		2400.00	600.00												25.71							
MISC. FABRICATE. STEEL	29.99			122.40												8.57							
STRUCTURAL STEEL	269.89	1046.52		55.08				0.73															
FLOOR PLATE	574.77	2228.70		117.30				1.55															
SCABBLED CONCRETE	29.15			583.00												9.97							
CONCRETE RUBBLE	101.25		1350.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	39.98	163.20																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	307.88	1256.64																					
PROCESS PIPING	159.94			130.56	522.24			1.73	6.92														
ELEVATOR	19.99	81.60																					
HVAC DUCT (SHEET METAL)	147.94			603.84				8.00															
PLUMBING (PIPE/FIXTURES)	3.00		9.18	3.06				0.04															
STACKS																							
ELECTRICAL GALV. CONDUI	100.00	4000.00																					
ELECTRICAL COPPER WIRE	440.00	1600.00																					
ELECTRICAL EQUIPMENT	387.50	7750.00		7750.00				10.47															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	19.69			437.50												8.97							
P.P.E.	160.00			3333.33																453.51			
SUMP WATER																							
RAGS, ETC.	2.67			59.39												1.22							
SUBTOTAL	4289.78	18126.66	3759.18	45487.06	1003.00			83.26	6.92							87.93	8.37			453.51	15.01		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 4C

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	17.83			356.67				0.96															
ASBESTOS TRANSITE ROOF	18.25			365.00				0.99															
INTERIOR 1/4" TRANSITE	4.38			87.67				0.24															
MARINITE WALL PANEL	17.53			350.67				0.95															
CEMESTOS ROOFING PANEL	28.08			561.60				1.52															
ASBESTOS (BAGGED) PIPE	0.46			36.67	9.17											0.71	0.18						
RIGID BOARD INSULATION	10.52			1052.00				1.07															
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL	0.36				1.00																0.85		
DEBRIS (GLASS/HRD.)	54.75		292.00	73.00												3.13							
MISC. FABRICATE. STEEL	2.00			8.16												0.57							
STRUCTURAL STEEL	18.99	73.64		3.88				0.05															
FLOOR PLATE																							
SCABBLED CONCRETE	7.50			150.00												2.56							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING																							
ELEVATOR																							
HVAC DUCT (SHEET METAL)	1.00			4.08				0.05															
PLUMBING (PIPE/FIXTURES)	1.00		3.06	1.02				0.01															
STACKS																							
ELECTRICAL GALV. CONDUI	0.63	25.00																					
ELECTRICAL COPPER WIRE	2.75	10.00																					
ELECTRICAL EQUIPMENT	1.08	21.50		21.50				0.03															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	0.94			20.83												0.43							
P.P.E.	1.29			26.93																3.66			
SUMP WATER																							
RAGS, ETC.	0.08			1.75												0.04							
SUBTOTAL	189.41	130.14	295.06	3121.41	10.17			5.87								7.43	0.18			3.66	0.85		

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REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 7A

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	125.00			2500.00				6.76															
ASBESTOS TRANSITE ROOF	43.33			866.67				2.34															
INTERIOR 1/4" TRANSITE	35.72			714.38				1.93															
MARINITE WALL PANEL	7.08			141.67				0.38															
CEMESTOS ROOFING PANEL	67.60			1352.00				3.65															
ASBESTOS (BAGGED) PIPE	13.33			1066.67	266.67											20.51	5.13						
RIGID BOARD INSULATION	63.38			6338.00																			
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	0.40				13.37																1.91		
LEAD MATERIAL	3.55				10.00																8.52		
DEBRIS (GLASS/HRD.)	270.00		1440.00	360.00												15.43							
MISC. FABRICATE. STEEL	23.99			97.92												6.85							
STRUCTURAL STEEL	175.93	682.18		35.90				0.48															
FLOOR PLATE	439.82	1705.44		89.76				1.19															
SCABBLED CONCRETE	39.00			780.00												13.33							
CONCRETE RUBBLE	299.70		3996.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING	44.98			36.72	146.88			0.49	1.95														
ELEVATOR	10.00	40.80																					
HVAC DUCT (SHEET METAL)	34.99			142.80				1.89															
PLUMBING (PIPE/FIXTURES)	8.00		24.48	8.16				0.11															
STACKS	5.00	10.20		10.20				0.14															
ELECTRICAL GALV. CONDUI	7.50	300.00																					
ELECTRICAL COPPER WIRE	34.38	125.00																					
ELECTRICAL EQUIPMENT	55.50	1110.00		1110.00				1.50															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	9.38			208.33												4.27							
P.P.E.	73.41			1529.41																208.08			
SUMP WATER																							
RAGS, ETC.	1.99			44.27												0.91							
SUBTOTAL	1892.96	3973.62	5460.48	17432.85	436.92			20.85	1.95							61.31	5.13			208.08	10.44		

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REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 10D

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	2.01				66.84																9.57		
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	2.00			8.16												0.57							
STRUCTURAL STEEL																							
FLOOR PLATE																							
SCABBLED CONCRETE	19.50			390.00												6.67							
CONCRETE RUBBLE	567.00		7560.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	6.00	24.48																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	19.99	81.60																					
PROCESS PIPING	1.00			0.82	3.26			0.01	0.04														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI	0.15	6.00																					
ELECTRICAL COPPER WIRE	0.55	2.00																					
ELECTRICAL EQUIPMENT	0.03	0.50		0.50				0.00															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	0.68			15.10												0.31							
P.P.E.	0.98			20.39																2.77			
SUMP WATER																							
RAGS, ETC.	0.01			0.26												0.01							
SUBTOTAL	619.89	114.58	7560.00	435.23	70.11			0.01	0.04							7.55				2.77	9.57		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 13B

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	0.30			6.00				0.02															
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	0.73			58.67	14.67											1.13	0.28						
RIGID BOARD INSULATION	6.22			622.00				0.63															
ROOF MATERIAL (ASBESTOS)	30.00			500.00												8.57							
PCB (MIXED WASTE)	0.20				6.68																0.96		
LEAD MATERIAL	0.36				1.00																0.85		
DEBRIS (GLASS/HRD.)	11.70		62.40	15.60												0.67							
MISC. FABRICATE. STEEL	2.00			8.16												0.57							
STRUCTURAL STEEL	5.00	19.38		1.02				0.01															
FLOOR PLATE	105.96	410.86		21.62				0.29															
SCABBLED CONCRETE																							
CONCRETE RUBBLE	95.18		1269.00																				
CONCRETE BLOCK	214.65		2862.00																				
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	2.00	8.16																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	4.00	16.32																					
PROCESS PIPING	6.00			4.90	19.58			0.06	0.26														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	2.00			8.16				0.11															
PLUMBING (PIPE/FIXTURES)	1.00		3.06	1.02				0.01															
STACKS	1.00	2.04		2.04				0.03															
ELECTRICAL GALV. CONDUI	0.60	24.00																					
ELECTRICAL COPPER WIRE	2.75	10.00																					
ELECTRICAL EQUIPMENT	1.13	22.50		22.50				0.03															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	1.17			26.04												0.53							
P.P.E.	0.58			12.12																1.65			
SUMP WATER																							
RAGS, ETC.	0.04			0.94												0.02							
SUBTOTAL	494.55	513.26	4196.46	1310.78	41.94			1.19	0.26							11.49	0.28			1.65	1.81		

1945

REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 13C

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	0.07			5.33	1.33											0.10	0.03						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)	8.70			145.00												2.49							
PCB (MIXED WASTE)	0.04				1.34																0.19		
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)	7.80		41.60	10.40												0.45							
MISC. FABRICATE. STEEL	2.00			8.16												0.57							
STRUCTURAL STEEL																							
FLOOR PLATE																							
SCABBLED CONCRETE	6.00			120.00												2.05							
CONCRETE RUBBLE	2.03		27.00																				
CONCRETE BLOCK	3645.00		48600.00																				
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	23.99	97.92																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	4.00	16.32																					
PROCESS PIPING	2.00			1.63	6.53			0.02	0.09														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI	0.25	10.00																					
ELECTRICAL COPPER WIRE	1.10	4.00																					
ELECTRICAL EQUIPMENT	0.33	6.50		6.50				0.01															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	2.11			46.88												0.96							
P.P.E.	0.95			19.76																2.69			
SUMP WATER																							
RAGS, ETC.	0.01			0.16												0.00							
SUBTOTAL	3706.[illegible]	134.74	48668.60	363.82	9.20			0.03	0.09							6.62	0.03			2.69	0.19		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 13D

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL	0.02			0.33				0.00															
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	0.07			5.47	1.37											0.11	0.03						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	4.01				133.69																19.15		
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	14.99			61.20												4.28							
STRUCTURAL STEEL	29.99	116.28		6.12				0.08															
FLOOR PLATE	8.00	31.01		1.63				0.02															
SCABBLED CONCRETE	33.85			677.00												11.57							
CONCRETE RUBBLE																							
CONCRETE BLOCK	162.00		2160.00																				
ACID BRICK	104.00			1386.67	346.67											28.44	7.11						
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	74.97	306.00																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	89.96	367.20																					
PROCESS PIPING	4.00			3.26	13.06			0.04	0.17														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS	2.00	4.08		4.08				0.05															
ELECTRICAL GALV. CONDUI	1.25	50.00																					
ELECTRICAL COPPER WIRE	5.50	20.00																					
ELECTRICAL EQUIPMENT	0.75	15.00		15.00				0.02															
WOOD (TEMP.STRUCTURE)	58.33			2916.67				3.15															
POLYETHELENE	0.24			5.31												0.11							
P.P.E.	2.20			45.82																6.23			
SUMP WATER																							
RAGS, ETC.	0.23			5.21												0.11							
SUBTOTAL	596.36	909.57	2160.00	5133.77	494.78			3.37	0.17							44.62	7.14			6.23	19.15		

REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 18K

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	0.33			26.67	6.67											0.51	0.13						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	0.80				26.74																3.83		
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	10.00			40.80												2.86							
STRUCTURAL STEEL																							
FLOOR PLATE																							
SCABBLED CONCRETE	0.05			1.00												0.02							
CONCRETE RUBBLE	4.05		54.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	1.00	4.08																					
PROCESS PIPING	1.00			0.82	3.26			0.01	0.04														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI	0.63	25.00																					
ELECTRICAL COPPER WIRE	1.65	6.00																					
ELECTRICAL EQUIPMENT	0.08	1.50		1.50				0.00															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	1.69			37.50												2.88							
P.P.E.	0.64			13.29																1.81			
SUMP WATER																							
RAGS, ETC.	0.02			0.52												0.01							
SUBTOTAL	21.93	36.58	54.00	122.10	36.67			0.01	0.04							6.28	0.13			1.81	3.83		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 18L

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	0.67			53.33	13.33											1.03	0.26						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	0.80				26.74																3.83		
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	11.00			44.88												3.14							
STRUCTURAL STEEL																							
FLOOR PLATE																							
SCABBLED CONCRETE	0.05			1.00												0.02							
CONCRETE RUBBLE	6.08		81.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	1.00	4.08																					
PROCESS PIPING	2.00			1.63	6.53			0.02	0.09														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI	1.00	40.00																					
ELECTRICAL COPPER WIRE	2.20	8.00																					
ELECTRICAL EQUIPMENT	0.48	9.50		9.50				0.01															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	1.69			37.50												2.88							
P.P.E.	1.15			24.00																3.27			
SUMP WATER																							
RAGS, ETC.	0.02			0.52												0.01							
SUBTOTAL	28.13	61.58	81.00	172.37	46.60			0.03	0.09							7.08	0.26			3.27	3.83		

REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 32A

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	1.05			83.73	20.93											1.61	0.40						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)	228.66			3811.00												65.33							
PCB (MIXED WASTE)																							
LEAD MATERIAL	1.42				4.00																3.41		
DEBRIS (GLASS/HRD.)	69.60		371.20	92.80												3.98							
MISC. FABRICATE. STEEL	4.00			16.32												1.14							
STRUCTURAL STEEL	13.99	54.26		2.86				0.04															
FLOOR PLATE	45.98	178.30		9.38				0.12															
SCABBLED CONCRETE	15.00			300.00												5.13							
CONCRETE RUBBLE	109.35		1458.00																				
CONCRETE BLOCK	619.65		8262.00																				
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	2.00	8.16																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	10.00	40.80																					
PROCESS PIPING	6.00			4.90	19.58			0.06	0.26														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	4.00			16.32				0.22															
PLUMBING (PIPE/FIXTURES)	2.00		6.12	2.04				0.03															
STACKS	1.00	2.04		2.04				0.03															
ELECTRICAL GALV. CONDUI	1.00	40.00																					
ELECTRICAL COPPER WIRE	4.40	16.00																					
ELECTRICAL EQUIPMENT	2.05	41.00		41.00				0.06															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	5.11			113.54												2.33							
P.P.E.	1.62			33.66																4.58			
SUMP WATER																							
RAGS, ETC.	0.14			3.13												0.06							
SUBTOTAL	1148.01	380.56	10097.32	4532.72	44.52			0.55	0.26							79.58	0.40			4.58	3.41		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES STRUCTURE 32B

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	2.08			41.67				0.11															
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL	0.36				1.00																0.85		
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	1.00			4.08												0.29							
STRUCTURAL STEEL																							
FLOOR PLATE	9.00	34.88		1.84				0.02															
SCABBLED CONCRETE	1.20			24.00												0.41							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING																							
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI	0.15	6.00																					
ELECTRICAL COPPER WIRE	0.83	3.00																					
ELECTRICAL EQUIPMENT	0.10	2.00		2.00				0.00															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	1.10			24.48												0.50							
P.P.E.	0.09			1.98																0.27			
SUMP WATER																							
RAGS, ETC.	0.01			0.16												0.00							
SUBTOTAL	15.91	45.88		100.20	1.00			0.14								1.20				0.27	0.85		

REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 39A

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	29.21			584.25				1.58															
ASBESTOS TRANSITE ROOF	7.58			151.58				0.41															
INTERIOR 1/4" TRANSITE	6.64			132.75				0.36															
MARINITE WALL PANEL	29.21			584.25				1.58															
CEMESTOS ROOFING PANEL	11.82			236.47				0.64															
ASBESTOS (BAGGED) PIPE	0.83			66.67	16.67											1.28	0.32						
RIGID BOARD INSULATION	17.52			1752.00				1.77															
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	0.20				6.68																0.96		
LEAD MATERIAL	0.71				2.00																1.70		
DEBRIS (GLASS/HRD.)	38.25		204.00	51.00												2.19							
MISC. FABRICATE. STEEL	6.00			24.48												1.71							
STRUCTURAL STEEL	102.96	399.23		21.01				0.28															
FLOOR PLATE	3.00	11.63		0.61				0.01															
SCABBLED CONCRETE	9.60			192.00												3.28							
CONCRETE RUBBLE	91.13		1215.00																				
CONCRETE BLOCK	72.90		972.00																				
ACID BRICK	40.00			533.33	133.33											10.94	2.74						
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	24.99	102.00																					
PROCESS PIPING	4.00			3.26	13.06			0.04	0.17														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	5.00			20.40				0.27															
PLUMBING (PIPE/FIXTURES)	2.00		6.12	2.04				0.03															
STACKS	6.00	12.24		12.24				0.16															
ELECTRICAL GALV. CONDUI	0.50	20.00																					
ELECTRICAL COPPER WIRE	2.20	8.00																					
ELECTRICAL EQUIPMENT	4.00	80.00		80.00				0.11															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	1.17			26.04												0.53							
P.P.E.	4.92			102.49																13.94			
SUMP WATER																							
RAGS, ETC.	0.11			2.33												0.05							
SUBTOTAL	522.44	633.10	2397.12	4579.21	171.74			7.24	0.17							19.99	3.06			13.94	2.66		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 39D

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)	0.08				2.67																0.38		
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	1.00			4.08												0.29							
STRUCTURAL STEEL	9.00	34.88		1.84				0.02															
FLOOR PLATE	8.00	31.01		1.63				0.02															
SCABBLED CONCRETE	1.55			31.00												0.53							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	1.00	4.08																					
PROCESS PIPING	1.00			0.82	3.26			0.01	0.04														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS	8.00	16.32		16.32				0.22															
ELECTRICAL GALV. CONDUI	1.75	70.00																					
ELECTRICAL COPPER WIRE	1.93	7.00																					
ELECTRICAL EQUIPMENT	0.10	2.00		2.00				0.00															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	0.94			20.83												0.43							
P.P.E.	0.44			9.15																1.24			
SUMP WATER																							
RAGS, ETC.	0.02			0.52												0.01							
SUBTOTAL	34.79	165.29		88.19	5.94			0.28	0.04							1.25				1.24	0.38		

REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 65

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)	108.60		579.20	144.80												6.21							
MISC. FABRICATE. STEEL	40.98			167.28												11.71							
STRUCTURAL STEEL	111.96	434.11		22.85				0.30															
FLOOR PLATE	85.97	333.34		17.54				0.23															
SCABBLED CONCRETE	29.30			586.00												10.02							
CONCRETE RUBBLE																							
CONCRETE BLOCK	46.58		621.00																				
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING	19.99			16.32	65.28			0.22	0.86														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	1.00			4.08				0.05															
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI	0.63	25.00																					
ELECTRICAL COPPER WIRE	2.75	10.00																					
ELECTRICAL EQUIPMENT	0.75	15.00		15.00				0.02															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	8.20			182.29												3.74							
P.P.E.	3.69			76.86																10.46			
SUMP WATER																							
RAGS, ETC.	0.27			5.98												0.12							
SUBTOTAL	460.66	817.45	1200.20	1239.01	65.28			0.83	0.86							31.79				10.46			

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REMOVAL ACTION #27
WASTE STREAM VOLUMES STRUCTURE 67

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)	16.20		86.40	21.60												0.93							
MISC. FABRICATE. STEEL	5.00			20.40												1.43							
STRUCTURAL STEEL	33.99	131.78		6.94				0.09															
FLOOR PLATE	31.99	124.03		6.53				0.09															
SCABBLED CONCRETE	8.40			168.00												2.87							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING	2.00			1.63	6.53			0.02	0.09														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	2.00			8.16				0.11															
PLUMBING (PIPE/FIXTURES)	1.00		3.06	1.02				0.01															
STACKS																							
ELECTRICAL GALV. CONDUI	0.50	20.00																					
ELECTRICAL COPPER WIRE	1.38	5.00																					
ELECTRICAL EQUIPMENT	0.75	15.00		15.00				0.02															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	2.88			64.06												1.31							
P.P.E.	1.04			21.57																2.93			
SUMP WATER																							
RAGS, ETC.	0.09			2.08												0.04							
SUBTOTAL	107.21	295.82	89.46	336.99	6.53			0.34	0.09							6.58				2.93			

REMOVAL ACTION #27 05/14/93
WASTE STREAM VOLUMES STRUCTURE 68

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	19.38			387.50				1.05															
ASBESTOS TRANSITE ROOF	22.73			454.50				1.23															
INTERIOR 1/4" TRANSITE	0.40			7.92				0.02															
MARINITE WALL PANEL	19.38			387.50				1.05															
CEMESTOS ROOFING PANEL	35.45			709.02				1.92															
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION	10.69			1069.00				1.08															
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL	0.36				1.00																0.85		
DEBRIS (GLASS/HRD.)	15.00		80.00	20.00												0.86							
MISC. FABRICATE. STEEL	3.00			12.24												0.86							
STRUCTURAL STEEL	32.99	127.91		6.73				0.09															
FLOOR PLATE																							
SCABBLED CONCRETE	5.30			106.00												1.81							
CONCRETE RUBBLE	324.00		4320.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING	3.00			2.45	9.79			0.03	0.13														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	0.25			1.02				0.01															
PLUMBING (PIPE/FIXTURES)	1.00		3.06	1.02				0.01															
STACKS																							
ELECTRICAL GALV. CONDUI	1.75	70.00																					
ELECTRICAL COPPER WIRE	5.50	20.00																					
ELECTRICAL EQUIPMENT	0.40	8.00		8.00				0.01															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	2.48			55.21												1.13							
P.P.E.	2.53			52.71																7.17			
SUMP WATER																							
RAGS, ETC.	0.12			2.66												0.05							
SUBTOTAL	505.68	225.91	4403.06	3283.47	10.79			6.50	0.13							4.71				7.17	0.85		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 69

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	7.20			576.00	144.00											11.08	2.77						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)	48.00			800.00												13.71							
PCB (MIXED WASTE)	1.60				53.48																7.66		
LEAD MATERIAL	0.36				1.00																0.85		
DEBRIS (GLASS/HRD.)	23.85		127.20	31.80												1.36							
MISC. FABRICATE. STEEL	8.00			32.64												2.28							
STRUCTURAL STEEL	21.99	85.27		4.49				0.06															
FLOOR PLATE	2.00	7.75		0.41				0.01															
SCABBLED CONCRETE	13.75			275.00												4.70							
CONCRETE RUBBLE	299.70		3996.00																				
CONCRETE BLOCK	265.28		3537.00																				
ACID BRICK	60.00			800.00	200.00											16.41	4.10						
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	12.00	48.96																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	299.88	1224.00																					
PROCESS PIPING	29.99			24.48	97.92			0.32	1.30														
ELEVATOR																							
HVAC DUCT (SHEET METAL)	3.00			12.24				0.16															
PLUMBING (PIPE/FIXTURES)	1.00		3.06	1.02				0.01															
STACKS	2.00	4.08		4.08				0.05															
ELECTRICAL GALV. CONDUI	2.73	109.00																					
ELECTRICAL COPPER WIRE	22.00	80.00																					
ELECTRICAL EQUIPMENT	1.38	27.50		27.50				0.04															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	7.50			166.67												3.42							
P.P.E.	6.21			129.41																17.61			
SUMP WATER																							
RAGS, ETC.	0.12			2.60												0.05							
SUBTOTAL	1139.51	1586.56	7663.26	2888.34	496.40			0.66	1.30							53.02	6.87			17.61	8.51		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES STRUCTURE 72

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING	9.17			183.33				0.50															
ASBESTOS TRANSITE ROOF	5.63			112.50				0.30															
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL	8.78			175.50				0.47															
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)	22.50		120.00	30.00												1.29							
MISC. FABRICATE. STEEL	5.00			20.40												1.43							
STRUCTURAL STEEL	12.00	46.51		2.45				0.03															
FLOOR PLATE																							
SCABBLED CONCRETE	5.10			102.00												1.74							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT	2.00	8.16																					
PROCESS PIPING	1.00			0.82	3.26			0.01	0.04														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI	0.15	6.00																					
ELECTRICAL COPPER WIRE	0.66	2.40																					
ELECTRICAL EQUIPMENT	0.10	2.00		2.00				0.00															
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	5.63			125.00												2.56							
P.P.E.	1.00			20.86																2.84			
SUMP WATER																							
RAGS, ETC.	0.47			10.52												0.22							
SUBTOTAL	79.17	65.07	120.00	785.38	3.26			1.32	0.04							7.24				2.84			

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 73A

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)	6.15		32.80	8.20												0.35							
MISC. FABRICATE. STEEL	0.20			0.82												0.06							
STRUCTURAL STEEL																							
FLOOR PLATE																							
SCABBLED CONCRETE	0.75			15.00												0.26							
CONCRETE RUBBLE	40.50		540.00																				
CONCRETE BLOCK	113.40		1512.00																				
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING	0.50			0.41	1.63			0.01	0.02														
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI																							
ELECTRICAL COPPER WIRE																							
ELECTRICAL EQUIPMENT																							
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	1.64			36.54												0.75							
P.P.E.	0.33			6.86																0.93			
SUMP WATER																							
RAGS, ETC.	0.08			1.83												0.04							
SUBTOTAL	163.56		2084.80	69.66	1.63			0.01	0.02							1.45				0.93			

REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 73B

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL																							
STRUCTURAL STEEL																							
FLOOR PLATE																							
SCABBLED CONCRETE																							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)	198.05				880.20	3520.80											14.25	57.02					
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING																							
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI																							
ELECTRICAL COPPER WIRE																							
ELECTRICAL EQUIPMENT																							
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	0.23			5.21												0.11							
P.P.E.	0.39			8.15																1.11			
SUMP WATER	49.69				1592.51																228.07		
RAGS, ETC.																							
SUBTOTAL	248.36			13.36	2472.71	3520.80										0.11	14.25	57.02		1.11	228.07		

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

STRUCTURE 73C

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE	0.07			5.47	1.37											0.11	0.03						
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL																							
STRUCTURAL STEEL	1.00	3.88		0.20				0.00															
FLOOR PLATE																							
SCABBLED CONCRETE	0.10			2.00												0.03							
CONCRETE RUBBLE	2.03		27.00																				
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)	3.65				16.20	64.80											0.83	0.84					
PROCESS VESSEL (TANK)	2.00	8.16																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING																							
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI																							
ELECTRICAL COPPER WIRE																							
ELECTRICAL EQUIPMENT																							
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	0.47			10.42												0.21							
P.P.E.	0.05			1.02																0.14			
SUMP WATER																							
RAGS, ETC.	0.01			0.13												0.00							
SUBTOTAL	9.36	12.04	27.00	19.24	17.57	64.80		0.00								0.36	0.86	0.84		0.14			

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REMOVAL ACTION #27 05/14/93

WASTE STREAM VOLUMES STRUCTURE 73D

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	3.50			14.28												1.00							
STRUCTURAL STEEL	2.00	7.75		0.41				0.01															
FLOOR PLATE																							
SCABBLED CONCRETE																							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)																							
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING																							
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI																							
ELECTRICAL COPPER WIRE																							
ELECTRICAL EQUIPMENT																							
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE	0.84			18.75												0.38							
P.P.E.	0.05			1.00																0.14			
SUMP WATER																							
RAGS, ETC.	0.00			0.10												0.00							
SUBTOTAL	6.39	7.75		34.54				0.01								1.39				0.14			

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REMOVAL ACTION #27
WASTE STREAM VOLUMES

000167

STRUCTURE 73E

05/14/93

DESCRIPTION OF WASTE	WEIGHT (TONS)	VOLUME IN CUBIC FEET						# OF SEA / LAND (8X8X20) BOXES				# OF B25 (4X4X6) BOXES				# OF 7A (4.3X3X4.3) BOXES				# OF 55 GALLON DRUM			
		FREE RELEASE	SANITAR LAND FILL	LLW	MIXED WASTE	RCRA	TSCA	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O	LLW	MIX	RC RA	O
ASBESTOS TRANSITE SIDING																							
ASBESTOS TRANSITE ROOF																							
INTERIOR 1/4" TRANSITE																							
MARINITE WALL PANEL																							
CEMESTOS ROOFING PANEL																							
ASBESTOS (BAGGED) PIPE																							
RIGID BOARD INSULATION																							
ROOF MATERIAL (ASBESTOS)																							
PCB (MIXED WASTE)																							
LEAD MATERIAL																							
DEBRIS (GLASS/HRD.)																							
MISC. FABRICATE. STEEL	1.00			4.08												0.29							
STRUCTURAL STEEL																							
FLOOR PLATE																							
SCABBLED CONCRETE																							
CONCRETE RUBBLE																							
CONCRETE BLOCK																							
ACID BRICK																							
SOIL (CONTAMINATED)																							
PROCESS VESSEL (TANK)	12.00	48.96																					
STAINLESS STEEL (TANK)																							
PROCESS EQUIPMENT																							
PROCESS PIPING																							
ELEVATOR																							
HVAC DUCT (SHEET METAL)																							
PLUMBING (PIPE/FIXTURES)																							
STACKS																							
ELECTRICAL GALV. CONDUI																							
ELECTRICAL COPPER WIRE																							
ELECTRICAL EQUIPMENT																							
WOOD (TEMP.STRUCTURE)																							
POLYETHELENE																							
P.P.E.	0.10			2.00																0.27			
SUMP WATER																							
RAGS, ETC.																							
SUBTOTAL	13.09	48.96		6.08												0.29				0.27			

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APPENDIX F

Calculation of Peak Dose to Truck Drivers During LLW Transport

Calculation of the annual dose to truck drivers transporting radioactive waste from FEMP to the Nevada Test Site.

Basis: Two driver team
Distance of 3,273 km one-way (2033 miles)
Length of round trip - 8 days
Maximum number of trips per year - 45 (See Note #1)
Average dose rate - 0.5 mrem/hour (See Note #2)
Average speed - 50 mph (See Note #3)

Calculation: Time in cab - (2033/50) (45) = 1830 hours (See Note #4)
Maximum annual exposure - (1830) (0.5) = 915 mrem

Notes:

1. This requires the drivers to be on the road 360 days per year, traveling 500 miles per day. Possible greater daily distances for a two-man team are offset by the customary observance of holidays, days off, and loading/unloading times at each end of a trip.

2. This rate is based on FEMP experience shipping process residues, largely U_3O_8. Dose rates from D&D wastes will be lower because much of it will consist of non-radioactive material contaminated on its surfaces.

3. A higher average speed reduces the amount of exposure, but increases the number of possible trips per year.

4. This is the time in the cab while hauling waste. No exposure occurs on the return trip.

APPENDIX G

Environmental (Air Quality) Data ISCLT2 Model Output (Volume II)

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CO STARTING
   TITLEONE  D&D RADIONUCLIDE IMPACT ASSESSMENT
   MODELOPT  RURAL  CONC
   AVERTIME  ANNUAL
   POLLUTID  RADIONUCLIDES
   RUNORNOT  RUN
   ERRORFIL  ERRORS.OUT
CO FINISHED

SO STARTING
   LOCATION  3F  POINT  699229. 4352212.
   SRCPARAM  3F 5.65E-05  2.0 293. 0.0001 1.0
   LOCATION  3G  POINT  699219. 4352213.
   SRCPARAM  3G 6.92E-06  2.0 293. 0.0001 1.0
   LOCATION  4A  POINT  699434. 4352267.
   SRCPARAM  4A 6.34E-03  2.0 293. 0.0001 1.0
   LOCATION  4C  POINT  699440. 4352205.
   SRCPARAM  4C 1.44E-05  2.0 293. 0.0001 1.0
   LOCATION  7A  POINT  699431. 4352171.
   SRCPARAM  7A 1.44E-03  2.0 293. 0.0001 1.0
   LOCATION 13B  POINT  699137. 4352084.
   SRCPARAM 13B 1.65E-05  2.0 293. 0.0001 1.0
   LOCATION 13C  POINT  699128. 4352037.
   SRCPARAM 13C 1.44E-04  2.0 293. 0.0001 1.0
   LOCATION 13D  POINT  699129. 4352052.
   SRCPARAM 13D 3.99E-05  2.0 293. 0.0001 1.0
   LOCATION 32A  POINT  699678. 4352656.
   SRCPARAM 32A 1.08E-04  2.0 293. 0.0001 1.0
   LOCATION 39A  POINT  699220. 4352235.
   SRCPARAM 39A 3.46E-05  2.0 293. 0.0001 1.0
   LOCATION 39D  POINT  700072. 4352167.
   SRCPARAM 39D 1.73E-05  2.0 293. 0.0001 1.0
   LOCATION 65   POINT  699610. 4352531.
   SRCPARAM 65  4.32E-04  2.0 293. 0.0001 1.0
   LOCATION 67   POINT  699146. 4352393.
   SRCPARAM 67  5.41E-05  2.0 293. 0.0001 1.0
   LOCATION 68   POINT  699176. 4351953.
   SRCPARAM 68  1.08E-04  2.0 293. 0.0001 1.0
   LOCATION 69   POINT  699638. 4352632.
   SRCPARAM 69  4.42E-03  2.0 293. 0.0001 1.0
   LOCATION 72   POINT  699219. 4352365.
   SRCPARAM 72  5.41E-05  2.0 293. 0.0001 1.0
   LOCATION 73A  POINT  699477. 4352900.
   SRCPARAM 73A 1.73E-05  2.0 293. 0.0001 1.0
   EMISUNIT  1E6  PICOCURIES/SEC  ATTOCURIES/M^3
   SRCGROUP  U238 3G 3F 4A 4C 7A 13B 32A 39A 39D 69 72 73A
   SRCGROUP  TH 13C 13D 65 67 68
   SRCGROUP ALL
SO FINISHED

RE STARTING
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RE DISCCART	700200	4353200
RE DISCCART	700200	4353300
RE DISCCART	700300	4351300
RE DISCCART	700300	4351400
RE DISCCART	700300	4351500
RE DISCCART	700300	4351600
RE DISCCART	700300	4351700
RE DISCCART	700300	4351800
RE DISCCART	700300	4351900
RE DISCCART	700300	4352000
RE DISCCART	700300	4352100
RE DISCCART	700300	4352200
RE DISCCART	700300	4352300
RE DISCCART	700300	4352400
RE DISCCART	700300	4352500
RE DISCCART	700300	4352600
RE DISCCART	700300	4352700
RE DISCCART	700300	4352800
RE DISCCART	700300	4352900
RE DISCCART	700300	4353000
RE DISCCART	700300	4353100
RE DISCCART	700300	4353200
RE DISCCART	700300	4353300
RE DISCCART	700400	4351300
RE DISCCART	700400	4351400
RE DISCCART	700400	4351500
RE DISCCART	700400	4351600
RE DISCCART	700400	4351700
RE DISCCART	700400	4351800
RE DISCCART	700400	4351900
RE DISCCART	700400	4352000
RE DISCCART	700400	4352100

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RE DISCCART    700400        4352200
RE DISCCART    700400        4352300
RE DISCCART    700400        4352400
RE DISCCART    700400        4352500
RE DISCCART    700400        4352600
RE DISCCART    700400        4352700
RE DISCCART    700400        4352800
RE DISCCART    700400        4352900
RE DISCCART    700400        4353000
RE DISCCART    700400        4353100
RE DISCCART    700400        4353200
RE DISCCART    700400        4353300
RE FINISHED

ME STARTING
   INPUTFIL  star8790.met (6(1X,F8.6))
   ANEMHGHT  10 METERS
   SURFDATA  00000  1992
   UAIRDATA  00000  1992
   STARDATA  ANNUAL
   AVESPEED  1.0  3.0  5.0  7.0  9.0  12.5
   AVETEMPS  ANNUAL  6*293.
   AVEMIXHT  ANNUAL  1  6*1254.
   AVEMIXHT  ANNUAL  2  6*836.
   AVEMIXHT  ANNUAL  3  6*836.
   AVEMIXHT  ANNUAL  4  6*836.
   AVEMIXHT  ANNUAL  5  6*10000.
   AVEMIXHT  ANNUAL  6  6*10000.
ME FINISHED

OU STARTING
   RECTABLE  SRCGRP
   MAXTABLE  10  SRCGRP
   PLOTFILE  ANNUAL  ALL  radall.PLT
   PLOTFILE  ANNUAL  U238  radU238.PLT
   PLOTFILE  ANNUAL  TH  radTH.PLT
OU FINISHED

************************************
*** SETUP Finishes Successfully ***
************************************
```

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** MODEL SETUP OPTIONS SUMMARY ***

- -

**Model Is Setup For Calculation of Average CONCentration Values.

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. Default Vertical Potential Temperature Gradients.

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 17 Source(s); 3 Source Group(s); and 441 Receptor(s)

**The Model Assumes A Pollutant Type of: RADIONUC

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of Long Term Values for Plotting (PLOTFILE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = .0000 ; Rot. Angle = .0
Emission Units = PICOCURIES/SEC ; Emission Rate Unit Factor = .10000E+07
Output Units = ATTOCURIES/M^3

**Input Runstream File: isclt.in ; **Output Print File: isclt.out
**Error Message File: ERRORS.OUT

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
3F	0	.56500E-04	699229.0	4352212.0	.0	2.00	293.00	.00	1.00	NO	
3G	0	.69200E-05	699219.0	4352213.0	.0	2.00	293.00	.00	1.00	NO	
4A	0	.63400E-02	699434.0	4352267.0	.0	2.00	293.00	.00	1.00	NO	
4C	0	.14400E-04	699440.0	4352205.0	.0	2.00	293.00	.00	1.00	NO	
7A	0	.14400E-02	699431.0	4352171.0	.0	2.00	293.00	.00	1.00	NO	
13B	0	.16500E-04	699137.0	4352084.0	.0	2.00	293.00	.00	1.00	NO	
13C	0	.14400E-03	699128.0	4352037.0	.0	2.00	293.00	.00	1.00	NO	
13D	0	.39900E-04	699129.0	4352052.0	.0	2.00	293.00	.00	1.00	NO	
32A	0	.10800E-03	699678.0	4352656.0	.0	2.00	293.00	.00	1.00	NO	
39A	0	.34600E-04	699220.0	4352235.0	.0	2.00	293.00	.00	1.00	NO	
39D	0	.17300E-04	700072.0	4352167.0	.0	2.00	293.00	.00	1.00	NO	
65	0	.43200E-03	699610.0	4352531.0	.0	2.00	293.00	.00	1.00	NO	
67	0	.54100E-04	699146.0	4352393.0	.0	2.00	293.00	.00	1.00	NO	
68	0	.10800E-03	699176.0	4351953.0	.0	2.00	293.00	.00	1.00	NO	
69	0	.44200E-02	699638.0	4352632.0	.0	2.00	293.00	.00	1.00	NO	
72	0	.54100E-04	699219.0	4352365.0	.0	2.00	293.00	.00	1.00	NO	
73A	0	.17300E-04	699477.0	4352900.0	.0	2.00	293.00	.00	1.00	NO	

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs												
U238	3F	, 3G	, 4A	, 4C	, 7A	, 13B	, 32A	, 39A	, 39D	, 69	, 72	, 73A	,
TH	13C	, 13D	, 65	, 67	, 68	,							
ALL	3F	, 3G	, 4A	, 4C	, 7A	, 13B	, 13C	, 13D	, 32A	, 39A	, 39D	, 65	,
	67	, 68	, 69	, 72	, 73A	,							

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(698400.0,	4351300.0,	.0,	.0);	(698400.0,	4351400.0,	.0,	.0);
(698400.0,	4351500.0,	.0,	.0);	(698400.0,	4351600.0,	.0,	.0);
(698400.0,	4351700.0,	.0,	.0);	(698400.0,	4351800.0,	.0,	.0);
(698400.0,	4351900.0,	.0,	.0);	(698400.0,	4352000.0,	.0,	.0);
(698400.0,	4352100.0,	.0,	.0);	(698400.0,	4352200.0,	.0,	.0);
(698400.0,	4352300.0,	.0,	.0);	(698400.0,	4352400.0,	.0,	.0);
(698400.0,	4352500.0,	.0,	.0);	(698400.0,	4352600.0,	.0,	.0);
(698400.0,	4352700.0,	.0,	.0);	(698400.0,	4352800.0,	.0,	.0);
(698400.0,	4352900.0,	.0,	.0);	(698400.0,	4353000.0,	.0,	.0);
(698400.0,	4353100.0,	.0,	.0);	(698400.0,	4353200.0,	.0,	.0);
(698400.0,	4353300.0,	.0,	.0);	(698500.0,	4351300.0,	.0,	.0);
(698500.0,	4351400.0,	.0,	.0);	(698500.0,	4351500.0,	.0,	.0);
(698500.0,	4351600.0,	.0,	.0);	(698500.0,	4351700.0,	.0,	.0);
(698500.0,	4351800.0,	.0,	.0);	(698500.0,	4351900.0,	.0,	.0);
(698500.0,	4352000.0,	.0,	.0);	(698500.0,	4352100.0,	.0,	.0);
(698500.0,	4352200.0,	.0,	.0);	(698500.0,	4352300.0,	.0,	.0);
(698500.0,	4352400.0,	.0,	.0);	(698500.0,	4352500.0,	.0,	.0);
(698500.0,	4352600.0,	.0,	.0);	(698500.0,	4352700.0,	.0,	.0);
(698500.0,	4352800.0,	.0,	.0);	(698500.0,	4352900.0,	.0,	.0);
(698500.0,	4353000.0,	.0,	.0);	(698500.0,	4353100.0,	.0,	.0);
(698500.0,	4353200.0,	.0,	.0);	(698500.0,	4353300.0,	.0,	.0);
(698600.0,	4351300.0,	.0,	.0);	(698600.0,	4351400.0,	.0,	.0);
(698600.0,	4351500.0,	.0,	.0);	(698600.0,	4351600.0,	.0,	.0);
(698600.0,	4351700.0,	.0,	.0);	(698600.0,	4351800.0,	.0,	.0);
(698600.0,	4351900.0,	.0,	.0);	(698600.0,	4352000.0,	.0,	.0);
(698600.0,	4352100.0,	.0,	.0);	(698600.0,	4352200.0,	.0,	.0);
(698600.0,	4352300.0,	.0,	.0);	(698600.0,	4352400.0,	.0,	.0);
(698600.0,	4352500.0,	.0,	.0);	(698600.0,	4352600.0,	.0,	.0);
(698600.0,	4352700.0,	.0,	.0);	(698600.0,	4352800.0,	.0,	.0);
(698600.0,	4352900.0,	.0,	.0);	(698600.0,	4353000.0,	.0,	.0);
(698600.0,	4353100.0,	.0,	.0);	(698600.0,	4353200.0,	.0,	.0);
(698600.0,	4353300.0,	.0,	.0);	(698700.0,	4351300.0,	.0,	.0);
(698700.0,	4351400.0,	.0,	.0);	(698700.0,	4351500.0,	.0,	.0);
(698700.0,	4351600.0,	.0,	.0);	(698700.0,	4351700.0,	.0,	.0);
(698700.0,	4351800.0,	.0,	.0);	(698700.0,	4351900.0,	.0,	.0);
(698700.0,	4352000.0,	.0,	.0);	(698700.0,	4352100.0,	.0,	.0);
(698700.0,	4352200.0,	.0,	.0);	(698700.0,	4352300.0,	.0,	.0);
(698700.0,	4352400.0,	.0,	.0);	(698700.0,	4352500.0,	.0,	.0);
(698700.0,	4352600.0,	.0,	.0);	(698700.0,	4352700.0,	.0,	.0);
(698700.0,	4352800.0,	.0,	.0);	(698700.0,	4352900.0,	.0,	.0);
(698700.0,	4353000.0,	.0,	.0);	(698700.0,	4353100.0,	.0,	.0);
(698700.0,	4353200.0,	.0,	.0);	(698700.0,	4353300.0,	.0,	.0);
(698800.0,	4351300.0,	.0,	.0);	(698800.0,	4351400.0,	.0,	.0);
(698800.0,	4351500.0,	.0,	.0);	(698800.0,	4351600.0,	.0,	.0);
(698800.0,	4351700.0,	.0,	.0);	(698800.0,	4351800.0,	.0,	.0);

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(698800.0,	4351900.0,	.0,	.0);	(698800.0,	4352000.0,	.0,	.0);
(698800.0,	4352100.0,	.0,	.0);	(698800.0,	4352200.0,	.0,	.0);
(698800.0,	4352300.0,	.0,	.0);	(698800.0,	4352400.0,	.0,	.0);
(698800.0,	4352500.0,	.0,	.0);	(698800.0,	4352600.0,	.0,	.0);
(698800.0,	4352700.0,	.0,	.0);	(698800.0,	4352800.0,	.0,	.0);
(698800.0,	4352900.0,	.0,	.0);	(698800.0,	4353000.0,	.0,	.0);
(698800.0,	4353100.0,	.0,	.0);	(698800.0,	4353200.0,	.0,	.0);
(698800.0,	4353300.0,	.0,	.0);	(698900.0,	4351300.0,	.0,	.0);
(698900.0,	4351400.0,	.0,	.0);	(698900.0,	4351500.0,	.0,	.0);
(698900.0,	4351600.0,	.0,	.0);	(698900.0,	4351700.0,	.0,	.0);
(698900.0,	4351800.0,	.0,	.0);	(698900.0,	4351900.0,	.0,	.0);
(698900.0,	4352000.0,	.0,	.0);	(698900.0,	4352100.0,	.0,	.0);
(698900.0,	4352200.0,	.0,	.0);	(698900.0,	4352300.0,	.0,	.0);
(698900.0,	4352400.0,	.0,	.0);	(698900.0,	4352500.0,	.0,	.0);
(698900.0,	4352600.0,	.0,	.0);	(698900.0,	4352700.0,	.0,	.0);
(698900.0,	4352800.0,	.0,	.0);	(698900.0,	4352900.0,	.0,	.0);
(698900.0,	4353000.0,	.0,	.0);	(698900.0,	4353100.0,	.0,	.0);
(698900.0,	4353200.0,	.0,	.0);	(698900.0,	4353300.0,	.0,	.0);
(699000.0,	4351300.0,	.0,	.0);	(699000.0,	4351400.0,	.0,	.0);
(699000.0,	4351500.0,	.0,	.0);	(699000.0,	4351600.0,	.0,	.0);
(699000.0,	4351700.0,	.0,	.0);	(699000.0,	4351800.0,	.0,	.0);
(699000.0,	4351900.0,	.0,	.0);	(699000.0,	4352000.0,	.0,	.0);
(699000.0,	4352100.0,	.0,	.0);	(699000.0,	4352200.0,	.0,	.0);
(699000.0,	4352300.0,	.0,	.0);	(699000.0,	4352400.0,	.0,	.0);
(699000.0,	4352500.0,	.0,	.0);	(699000.0,	4352600.0,	.0,	.0);
(699000.0,	4352700.0,	.0,	.0);	(699000.0,	4352800.0,	.0,	.0);
(699000.0,	4352900.0,	.0,	.0);	(699000.0,	4353000.0,	.0,	.0);
(699000.0,	4353100.0,	.0,	.0);	(699000.0,	4353200.0,	.0,	.0);
(699000.0,	4353300.0,	.0,	.0);	(699100.0,	4351300.0,	.0,	.0);
(699100.0,	4351400.0,	.0,	.0);	(699100.0,	4351500.0,	.0,	.0);
(699100.0,	4351600.0,	.0,	.0);	(699100.0,	4351700.0,	.0,	.0);
(699100.0,	4351800.0,	.0,	.0);	(699100.0,	4351900.0,	.0,	.0);
(699100.0,	4352000.0,	.0,	.0);	(699100.0,	4352100.0,	.0,	.0);
(699100.0,	4352200.0,	.0,	.0);	(699100.0,	4352300.0,	.0,	.0);
(699100.0,	4352400.0,	.0,	.0);	(699100.0,	4352500.0,	.0,	.0);
(699100.0,	4352600.0,	.0,	.0);	(699100.0,	4352700.0,	.0,	.0);
(699100.0,	4352800.0,	.0,	.0);	(699100.0,	4352900.0,	.0,	.0);
(699100.0,	4353000.0,	.0,	.0);	(699100.0,	4353100.0,	.0,	.0);
(699100.0,	4353200.0,	.0,	.0);	(699100.0,	4353300.0,	.0,	.0);
(699200.0,	4351300.0,	.0,	.0);	(699200.0,	4351400.0,	.0,	.0);
(699200.0,	4351500.0,	.0,	.0);	(699200.0,	4351600.0,	.0,	.0);
(699200.0,	4351700.0,	.0,	.0);	(699200.0,	4351800.0,	.0,	.0);
(699200.0,	4351900.0,	.0,	.0);	(699200.0,	4352000.0,	.0,	.0);
(699200.0,	4352100.0,	.0,	.0);	(699200.0,	4352200.0,	.0,	.0);
(699200.0,	4352300.0,	.0,	.0);	(699200.0,	4352400.0,	.0,	.0);

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(699200.0,	4352500.0,	.0,	.0);	(699200.0,	4352600.0,	.0,	.0);
(699200.0,	4352700.0,	.0,	.0);	(699200.0,	4352800.0,	.0,	.0);
(699200.0,	4352900.0,	.0,	.0);	(699200.0,	4353000.0,	.0,	.0);
(699200.0,	4353100.0,	.0,	.0);	(699200.0,	4353200.0,	.0,	.0);
(699200.0,	4353300.0,	.0,	.0);	(699300.0,	4351300.0,	.0,	.0);
(699300.0,	4351400.0,	.0,	.0);	(699300.0,	4351500.0,	.0,	.0);
(699300.0,	4351600.0,	.0,	.0);	(699300.0,	4351700.0,	.0,	.0);
(699300.0,	4351800.0,	.0,	.0);	(699300.0,	4351900.0,	.0,	.0);
(699300.0,	4352000.0,	.0,	.0);	(699300.0,	4352100.0,	.0,	.0);
(699300.0,	4352200.0,	.0,	.0);	(699300.0,	4352300.0,	.0,	.0);
(699300.0,	4352400.0,	.0,	.0);	(699300.0,	4352500.0,	.0,	.0);
(699300.0,	4352600.0,	.0,	.0);	(699300.0,	4352700.0,	.0,	.0);
(699300.0,	4352800.0,	.0,	.0);	(699300.0,	4352900.0,	.0,	.0);
(699300.0,	4353000.0,	.0,	.0);	(699300.0,	4353100.0,	.0,	.0);
(699300.0,	4353200.0,	.0,	.0);	(699300.0,	4353300.0,	.0,	.0);
(699400.0,	4351300.0,	.0,	.0);	(699400.0,	4351400.0,	.0,	.0);
(699400.0,	4351500.0,	.0,	.0);	(699400.0,	4351600.0,	.0,	.0);
(699400.0,	4351700.0,	.0,	.0);	(699400.0,	4351800.0,	.0,	.0);
(699400.0,	4351900.0,	.0,	.0);	(699400.0,	4352000.0,	.0,	.0);
(699400.0,	4352100.0,	.0,	.0);	(699400.0,	4352200.0,	.0,	.0);
(699400.0,	4352300.0,	.0,	.0);	(699400.0,	4352400.0,	.0,	.0);
(699400.0,	4352500.0,	.0,	.0);	(699400.0,	4352600.0,	.0,	.0);
(699400.0,	4352700.0,	.0,	.0);	(699400.0,	4352800.0,	.0,	.0);
(699400.0,	4352900.0,	.0,	.0);	(699400.0,	4353000.0,	.0,	.0);
(699400.0,	4353100.0,	.0,	.0);	(699400.0,	4353200.0,	.0,	.0);
(699400.0,	4353300.0,	.0,	.0);	(699500.0,	4351300.0,	.0,	.0);
(699500.0,	4351400.0,	.0,	.0);	(699500.0,	4351500.0,	.0,	.0);
(699500.0,	4351600.0,	.0,	.0);	(699500.0,	4351700.0,	.0,	.0);
(699500.0,	4351800.0,	.0,	.0);	(699500.0,	4351900.0,	.0,	.0);
(699500.0,	4352000.0,	.0,	.0);	(699500.0,	4352100.0,	.0,	.0);
(699500.0,	4352200.0,	.0,	.0);	(699500.0,	4352300.0,	.0,	.0);
(699500.0,	4352400.0,	.0,	.0);	(699500.0,	4352500.0,	.0,	.0);
(699500.0,	4352600.0,	.0,	.0);	(699500.0,	4352700.0,	.0,	.0);
(699500.0,	4352800.0,	.0,	.0);	(699500.0,	4352900.0,	.0,	.0);
(699500.0,	4353000.0,	.0,	.0);	(699500.0,	4353100.0,	.0,	.0);
(699500.0,	4353200.0,	.0,	.0);	(699500.0,	4353300.0,	.0,	.0);
(699600.0,	4351300.0,	.0,	.0);	(699600.0,	4351400.0,	.0,	.0);
(699600.0,	4351500.0,	.0,	.0);	(699600.0,	4351600.0,	.0,	.0);
(699600.0,	4351700.0,	.0,	.0);	(699600.0,	4351800.0,	.0,	.0);
(699600.0,	4351900.0,	.0,	.0);	(699600.0,	4352000.0,	.0,	.0);
(699600.0,	4352100.0,	.0,	.0);	(699600.0,	4352200.0,	.0,	.0);
(699600.0,	4352300.0,	.0,	.0);	(699600.0,	4352400.0,	.0,	.0);
(699600.0,	4352500.0,	.0,	.0);	(699600.0,	4352600.0,	.0,	.0);
(699600.0,	4352700.0,	.0,	.0);	(699600.0,	4352800.0,	.0,	.0);
(699600.0,	4352900.0,	.0,	.0);	(699600.0,	4353000.0,	.0,	.0);

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(699600.0,	4353100.0,	.0,	.0);	(699600.0,	4353200.0,	.0,	.0);
(699600.0,	4353300.0,	.0,	.0);	(699700.0,	4351300.0,	.0,	.0);
(699700.0,	4351400.0,	.0,	.0);	(699700.0,	4351500.0,	.0,	.0);
(699700.0,	4351600.0,	.0,	.0);	(699700.0,	4351700.0,	.0,	.0);
(699700.0,	4351800.0,	.0,	.0);	(699700.0,	4351900.0,	.0,	.0);
(699700.0,	4352000.0,	.0,	.0);	(699700.0,	4352100.0,	.0,	.0);
(699700.0,	4352200.0,	.0,	.0);	(699700.0,	4352300.0,	.0,	.0);
(699700.0,	4352400.0,	.0,	.0);	(699700.0,	4352500.0,	.0,	.0);
(699700.0,	4352600.0,	.0,	.0);	(699700.0,	4352700.0,	.0,	.0);
(699700.0,	4352800.0,	.0,	.0);	(699700.0,	4352900.0,	.0,	.0);
(699700.0,	4353000.0,	.0,	.0);	(699700.0,	4353100.0,	.0,	.0);
(699700.0,	4353200.0,	.0,	.0);	(699700.0,	4353300.0,	.0,	.0);
(699800.0,	4351300.0,	.0,	.0);	(699800.0,	4351400.0,	.0,	.0);
(699800.0,	4351500.0,	.0,	.0);	(699800.0,	4351600.0,	.0,	.0);
(699800.0,	4351700.0,	.0,	.0);	(699800.0,	4351800.0,	.0,	.0);
(699800.0,	4351900.0,	.0,	.0);	(699800.0,	4352000.0,	.0,	.0);
(699800.0,	4352100.0,	.0,	.0);	(699800.0,	4352200.0,	.0,	.0);
(699800.0,	4352300.0,	.0,	.0);	(699800.0,	4352400.0,	.0,	.0);
(699800.0,	4352500.0,	.0,	.0);	(699800.0,	4352600.0,	.0,	.0);
(699800.0,	4352700.0,	.0,	.0);	(699800.0,	4352800.0,	.0,	.0);
(699800.0,	4352900.0,	.0,	.0);	(699800.0,	4353000.0,	.0,	.0);
(699800.0,	4353100.0,	.0,	.0);	(699800.0,	4353200.0,	.0,	.0);
(699800.0,	4353300.0,	.0,	.0);	(699900.0,	4351300.0,	.0,	.0);
(699900.0,	4351400.0,	.0,	.0);	(699900.0,	4351500.0,	.0,	.0);
(699900.0,	4351600.0,	.0,	.0);	(699900.0,	4351700.0,	.0,	.0);
(699900.0,	4351800.0,	.0,	.0);	(699900.0,	4351900.0,	.0,	.0);
(699900.0,	4352000.0,	.0,	.0);	(699900.0,	4352100.0,	.0,	.0);
(699900.0,	4352200.0,	.0,	.0);	(699900.0,	4352300.0,	.0,	.0);
(699900.0,	4352400.0,	.0,	.0);	(699900.0,	4352500.0,	.0,	.0);
(699900.0,	4352600.0,	.0,	.0);	(699900.0,	4352700.0,	.0,	.0);
(699900.0,	4352800.0,	.0,	.0);	(699900.0,	4352900.0,	.0,	.0);
(699900.0,	4353000.0,	.0,	.0);	(699900.0,	4353100.0,	.0,	.0);
(699900.0,	4353200.0,	.0,	.0);	(699900.0,	4353300.0,	.0,	.0);
(700000.0,	4351300.0,	.0,	.0);	(700000.0,	4351400.0,	.0,	.0);
(700000.0,	4351500.0,	.0,	.0);	(700000.0,	4351600.0,	.0,	.0);
(700000.0,	4351700.0,	.0,	.0);	(700000.0,	4351800.0,	.0,	.0);
(700000.0,	4351900.0,	.0,	.0);	(700000.0,	4352000.0,	.0,	.0);
(700000.0,	4352100.0,	.0,	.0);	(700000.0,	4352200.0,	.0,	.0);
(700000.0,	4352300.0,	.0,	.0);	(700000.0,	4352400.0,	.0,	.0);
(700000.0,	4352500.0,	.0,	.0);	(700000.0,	4352600.0,	.0,	.0);
(700000.0,	4352700.0,	.0,	.0);	(700000.0,	4352800.0,	.0,	.0);
(700000.0,	4352900.0,	.0,	.0);	(700000.0,	4353000.0,	.0,	.0);
(700000.0,	4353100.0,	.0,	.0);	(700000.0,	4353200.0,	.0,	.0);
(700000.0,	4353300.0,	.0,	.0);	(700100.0,	4351300.0,	.0,	.0);
(700100.0,	4351400.0,	.0,	.0);	(700100.0,	4351500.0,	.0,	.0);

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(700100.0,	4351600.0,	.0,	.0);	(700100.0,	4351700.0,	.0,	.0);
(700100.0,	4351800.0,	.0,	.0);	(700100.0,	4351900.0,	.0,	.0);
(700100.0,	4352000.0,	.0,	.0);	(700100.0,	4352100.0,	.0,	.0);
(700100.0,	4352200.0,	.0,	.0);	(700100.0,	4352300.0,	.0,	.0);
(700100.0,	4352400.0,	.0,	.0);	(700100.0,	4352500.0,	.0,	.0);
(700100.0,	4352600.0,	.0,	.0);	(700100.0,	4352700.0,	.0,	.0);
(700100.0,	4352800.0,	.0,	.0);	(700100.0,	4352900.0,	.0,	.0);
(700100.0,	4353000.0,	.0,	.0);	(700100.0,	4353100.0,	.0,	.0);
(700100.0,	4353200.0,	.0,	.0);	(700100.0,	4353300.0,	.0,	.0);
(700200.0,	4351300.0,	.0,	.0);	(700200.0,	4351400.0,	.0,	.0);
(700200.0,	4351500.0,	.0,	.0);	(700200.0,	4351600.0,	.0,	.0);
(700200.0,	4351700.0,	.0,	.0);	(700200.0,	4351800.0,	.0,	.0);
(700200.0,	4351900.0,	.0,	.0);	(700200.0,	4352000.0,	.0,	.0);
(700200.0,	4352100.0,	.0,	.0);	(700200.0,	4352200.0,	.0,	.0);
(700200.0,	4352300.0,	.0,	.0);	(700200.0,	4352400.0,	.0,	.0);
(700200.0,	4352500.0,	.0,	.0);	(700200.0,	4352600.0,	.0,	.0);
(700200.0,	4352700.0,	.0,	.0);	(700200.0,	4352800.0,	.0,	.0);
(700200.0,	4352900.0,	.0,	.0);	(700200.0,	4353000.0,	.0,	.0);
(700200.0,	4353100.0,	.0,	.0);	(700200.0,	4353200.0,	.0,	.0);
(700200.0,	4353300.0,	.0,	.0);	(700300.0,	4351300.0,	.0,	.0);
(700300.0,	4351400.0,	.0,	.0);	(700300.0,	4351500.0,	.0,	.0);
(700300.0,	4351600.0,	.0,	.0);	(700300.0,	4351700.0,	.0,	.0);
(700300.0,	4351800.0,	.0,	.0);	(700300.0,	4351900.0,	.0,	.0);
(700300.0,	4352000.0,	.0,	.0);	(700300.0,	4352100.0,	.0,	.0);
(700300.0,	4352200.0,	.0,	.0);	(700300.0,	4352300.0,	.0,	.0);
(700300.0,	4352400.0,	.0,	.0);	(700300.0,	4352500.0,	.0,	.0);
(700300.0,	4352600.0,	.0,	.0);	(700300.0,	4352700.0,	.0,	.0);
(700300.0,	4352800.0,	.0,	.0);	(700300.0,	4352900.0,	.0,	.0);
(700300.0,	4353000.0,	.0,	.0);	(700300.0,	4353100.0,	.0,	.0);
(700300.0,	4353200.0,	.0,	.0);	(700300.0,	4353300.0,	.0,	.0);
(700400.0,	4351300.0,	.0,	.0);	(700400.0,	4351400.0,	.0,	.0);
(700400.0,	4351500.0,	.0,	.0);	(700400.0,	4351600.0,	.0,	.0);
(700400.0,	4351700.0,	.0,	.0);	(700400.0,	4351800.0,	.0,	.0);
(700400.0,	4351900.0,	.0,	.0);	(700400.0,	4352000.0,	.0,	.0);
(700400.0,	4352100.0,	.0,	.0);	(700400.0,	4352200.0,	.0,	.0);
(700400.0,	4352300.0,	.0,	.0);	(700400.0,	4352400.0,	.0,	.0);
(700400.0,	4352500.0,	.0,	.0);	(700400.0,	4352600.0,	.0,	.0);
(700400.0,	4352700.0,	.0,	.0);	(700400.0,	4352800.0,	.0,	.0);
(700400.0,	4352900.0,	.0,	.0);	(700400.0,	4353000.0,	.0,	.0);
(700400.0,	4353100.0,	.0,	.0);	(700400.0,	4353200.0,	.0,	.0);
(700400.0,	4353300.0,	.0,	.0);				

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.00, 3.00, 5.00, 7.00, 9.00, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	293.0000	293.0000	293.0000	293.0000	293.0000	293.0000

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

ANNUAL

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	1254.0000	1254.0000	1254.0000	1254.0000	1254.0000	1254.0000
STABILITY CATEGORY B	836.0000	836.0000	836.0000	836.0000	836.0000	836.0000
STABILITY CATEGORY C	836.0000	836.0000	836.0000	836.0000	836.0000	836.0000
STABILITY CATEGORY D	836.0000	836.0000	836.0000	836.0000	836.0000	836.0000
STABILITY CATEGORY E	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000
STABILITY CATEGORY F	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: star8790.met FORMAT: (6(1X,F8.6))
SURFACE STATION NO.: 0 UPPER AIR STATION NO.: 0
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (3.000 M/S)	WIND SPEED CATEGORY 3 (5.000 M/S)	WIND SPEED CATEGORY 4 (7.000 M/S)	WIND SPEED CATEGORY 5 (9.000 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00017100	.00041000	.00058100	.00000000	.00000000	.00000000
22.500	.00034200	.00034200	.00082000	.00010300	.00000000	.00000000
45.000	.00037600	.00095700	.00037600	.00003400	.00000000	.00000000
67.500	.00054700	.00136700	.00017100	.00000000	.00000000	.00000000
90.000	.00020500	.00058100	.00013700	.00000000	.00000000	.00000000
112.500	.00020500	.00017100	.00000000	.00000000	.00000000	.00000000
135.000	.00003400	.00000000	.00000000	.00000000	.00000000	.00000000
157.500	.00003400	.00006800	.00006800	.00000000	.00000000	.00000000
180.000	.00013700	.00017100	.00000000	.00000000	.00000000	.00000000
202.500	.00027300	.00188000	.00092300	.00000000	.00000000	.00000000
225.000	.00034200	.00246100	.00215300	.00006800	.00000000	.00000000
247.500	.00030800	.00300800	.00112800	.00003400	.00000000	.00000000
270.000	.00041000	.00242700	.00153800	.00006800	.00000000	.00000000
292.500	.00044400	.00085400	.00082000	.00013700	.00000000	.00000000
315.000	.00037600	.00078600	.00037600	.00000000	.00000000	.00000000
337.500	.00030800	.00047900	.00061500	.00000000	.00000000	.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (3.000 M/S)	WIND SPEED CATEGORY 3 (5.000 M/S)	WIND SPEED CATEGORY 4 (7.000 M/S)	WIND SPEED CATEGORY 5 (9.000 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00013700	.00078600	.00030800	.00006800	.00000000	.00000000
22.500	.00013700	.00030800	.00044400	.00003400	.00000000	.00000000
45.000	.00020500	.00102500	.00047900	.00000000	.00000000	.00000000
67.500	.00027300	.00126500	.00017100	.00006800	.00000000	.00000000
90.000	.00054700	.00041000	.00017100	.00000000	.00000000	.00000000
112.500	.00013700	.00023900	.00000000	.00000000	.00000000	.00000000
135.000	.00006800	.00006800	.00000000	.00000000	.00000000	.00000000
157.500	.00017100	.00006800	.00003400	.00003500	.00000000	.00000000
180.000	.00010300	.00020500	.00006800	.00000000	.00000000	.00000000
202.500	.00030800	.00184600	.00088900	.00010300	.00003400	.00000000
225.000	.00058100	.00232400	.00102500	.00010300	.00000000	.00000000
247.500	.00054700	.00246100	.00064900	.00003400	.00000000	.00000000
270.000	.00037600	.00157200	.00092300	.00003400	.00000000	.00000000
292.500	.00034200	.00099100	.00075200	.00006800	.00000000	.00000000
315.000	.00047900	.00106000	.00064900	.00000000	.00000000	.00000000
337.500	.00037600	.00095700	.00041000	.00003400	.00000000	.00000000

554

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: star8790.met FORMAT: (6(1X,F8.6))
SURFACE STATION NO.: 0 UPPER AIR STATION NO.: 0
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (3.000 M/S)	WIND SPEED CATEGORY 3 (5.000 M/S)	WIND SPEED CATEGORY 4 (7.000 M/S)	WIND SPEED CATEGORY 5 (9.000 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00037600	.00119600	.00047900	.00013700	.00000000	.00000000
22.500	.00034200	.00129900	.00044400	.00003400	.00000000	.00000000
45.000	.00041000	.00164100	.00071800	.00010300	.00000000	.00000000
67.500	.00119600	.00177700	.00020500	.00023900	.00000000	.00000000
90.000	.00102500	.00061500	.00010300	.00000000	.00000000	.00000000
112.500	.00054700	.00037600	.00000000	.00000000	.00000000	.00000000
135.000	.00034200	.00041000	.00000000	.00000000	.00000000	.00000000
157.500	.00023900	.00044400	.00006800	.00000000	.00000000	.00000000
180.000	.00034200	.00106000	.00013700	.00000000	.00000000	.00000000
202.500	.00041000	.00235800	.00071800	.00006800	.00003400	.00000000
225.000	.00126500	.00382800	.00112800	.00017100	.00000000	.00000000
247.500	.00157200	.00324700	.00082000	.00010300	.00000000	.00000000
270.000	.00054700	.00188000	.00095700	.00013700	.00000000	.00000000
292.500	.00064900	.00150400	.00092300	.00013700	.00000000	.00000000
315.000	.00054700	.00167500	.00092300	.00000000	.00003400	.00000000
337.500	.00054700	.00153800	.00047900	.00003400	.00000000	.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (3.000 M/S)	WIND SPEED CATEGORY 3 (5.000 M/S)	WIND SPEED CATEGORY 4 (7.000 M/S)	WIND SPEED CATEGORY 5 (9.000 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00348600	.01247600	.00478500	.00030800	.00000000	.00000000
22.500	.00488800	.01367200	.00471700	.00078600	.00000000	.00000000
45.000	.00731400	.01555200	.00406700	.00023900	.00000000	.00000000
67.500	.01025400	.02088400	.00468400	.00075200	.00000000	.00000000
90.000	.00765600	.00499000	.00041000	.00000000	.00003400	.00000000
112.500	.00550300	.00160600	.00003400	.00000000	.00000000	.00000000
135.000	.00389700	.00229000	.00010300	.00000000	.00000000	.00000000
157.500	.00423800	.00338400	.00092300	.00006800	.00000000	.00000000
180.000	.00509300	.00687000	.00211900	.00023900	.00000000	.00000000
202.500	.00834000	.01459500	.00598100	.00112800	.00000000	.00000000
225.000	.01114300	.01719200	.00468300	.00071800	.00013700	.00006800
247.500	.01165500	.01186000	.00358900	.00116200	.00020500	.00003400
270.000	.00929700	.01322800	.00649400	.00078600	.00000000	.00000000
292.500	.00512700	.01353500	.00605000	.00075200	.00000000	.00000000
315.000	.00574200	.01039100	.00523000	.00017200	.00010300	.00000000
337.500	.00502400	.01107400	.00355600	.00047900	.00006800	.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: star8790.met FORMAT: (6(1X,F8.6))
SURFACE STATION NO.: 0 UPPER AIR STATION NO.: 0
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (3.000 M/S)	WIND SPEED CATEGORY 3 (5.000 M/S)	WIND SPEED CATEGORY 4 (7.000 M/S)	WIND SPEED CATEGORY 5 (9.000 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00516100	.00410200	.00041000	.00003400	.00000000	.00000000
22.500	.00382800	.00331500	.00061500	.00006800	.00000000	.00000000
45.000	.00454600	.00290500	.00023900	.00000000	.00000000	.00000000
67.500	.01268100	.00765600	.00051300	.00000000	.00000000	.00000000
90.000	.00984400	.00167500	.00006800	.00000000	.00000000	.00000000
112.500	.00471700	.00095700	.00000000	.00000000	.00000000	.00000000
135.000	.00509300	.00106000	.00013700	.00000000	.00000000	.00000000
157.500	.00690400	.00341800	.00051300	.00006800	.00000000	.00000000
180.000	.00758800	.00806600	.00232400	.00058100	.00000000	.00000000
202.500	.01356900	.01671400	.00570800	.00061500	.00006900	.00000000
225.000	.02296900	.02136200	.00403300	.00027300	.00003400	.00000000
247.500	.02307100	.00905800	.00232400	.00047900	.00000000	.00000000
270.000	.01691900	.01189500	.00287100	.00017100	.00000000	.00000000
292.500	.01162100	.00960500	.00222200	.00013700	.00000000	.00000000
315.000	.00970700	.00529800	.00082000	.00006800	.00000000	.00000000
337.500	.00687000	.00331500	.00068400	.00010300	.00000000	.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.000 M/S)	WIND SPEED CATEGORY 2 (3.000 M/S)	WIND SPEED CATEGORY 3 (5.000 M/S)	WIND SPEED CATEGORY 4 (7.000 M/S)	WIND SPEED CATEGORY 5 (9.000 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
.000	.00454600	.00013700	.00000000	.00000000	.00000000	.00000000
22.500	.00485400	.00003400	.00003400	.00000000	.00000000	.00000000
45.000	.00475100	.00000000	.00000000	.00000000	.00000000	.00000000
67.500	.00868200	.00078600	.00000000	.00000000	.00000000	.00000000
90.000	.01391200	.00006800	.00000000	.00000000	.00000000	.00000000
112.500	.00940000	.00003400	.00000000	.00000000	.00000000	.00000000
135.000	.00594800	.00003400	.00000000	.00000000	.00000000	.00000000
157.500	.00540000	.00000000	.00000000	.00000000	.00000000	.00000000
180.000	.00769000	.00020500	.00000000	.00000000	.00000000	.00000000
202.500	.01367200	.00061500	.00003400	.00000000	.00000000	.00000000
225.000	.02443900	.00133300	.00000000	.00000000	.00000000	.00000000
247.500	.03479800	.00095700	.00000000	.00000000	.00000000	.00000000
270.000	.03582100	.00037600	.00000000	.00000000	.00000000	.00000000
292.500	.03390600	.00006800	.00000000	.00000000	.00000000	.00000000
315.000	.02317400	.00006800	.00000000	.00000000	.00000000	.00000000
337.500	.01121100	.00023900	.00000000	.00000000	.00000000	.00000000

SUM OF FREQUENCIES, FTOTAL = .99993

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3F ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000084	698400.00	4351400.00	.000096
698400.00	4351500.00	.000122	698400.00	4351600.00	.000154
698400.00	4351700.00	.000193	698400.00	4351800.00	.000238
698400.00	4351900.00	.000277	698400.00	4352000.00	.000290
698400.00	4352100.00	.000294	698400.00	4352200.00	.000288
698400.00	4352300.00	.000256	698400.00	4352400.00	.000217
698400.00	4352500.00	.000176	698400.00	4352600.00	.000145
698400.00	4352700.00	.000126	698400.00	4352800.00	.000108
698400.00	4352900.00	.000092	698400.00	4353000.00	.000079
698400.00	4353100.00	.000071	698400.00	4353200.00	.000066
698400.00	4353300.00	.000061	698500.00	4351300.00	.000091
698500.00	4351400.00	.000102	698500.00	4351500.00	.000119
698500.00	4351600.00	.000158	698500.00	4351700.00	.000206
698500.00	4351800.00	.000265	698500.00	4351900.00	.000333
698500.00	4352000.00	.000360	698500.00	4352100.00	.000368
698500.00	4352200.00	.000360	698500.00	4352300.00	.000314
698500.00	4352400.00	.000258	698500.00	4352500.00	.000200
698500.00	4352600.00	.000168	698500.00	4352700.00	.000142
698500.00	4352800.00	.000118	698500.00	4352900.00	.000098
698500.00	4353000.00	.000087	698500.00	4353100.00	.000080
698500.00	4353200.00	.000073	698500.00	4353300.00	.000067
698600.00	4351300.00	.000097	698600.00	4351400.00	.000111
698600.00	4351500.00	.000129	698600.00	4351600.00	.000155
698600.00	4351700.00	.000215	698600.00	4351800.00	.000292
698600.00	4351900.00	.000387	698600.00	4352000.00	.000459
698600.00	4352100.00	.000478	698600.00	4352200.00	.000467
698600.00	4352300.00	.000399	698600.00	4352400.00	.000312
698600.00	4352500.00	.000236	698600.00	4352600.00	.000196
698600.00	4352700.00	.000159	698600.00	4352800.00	.000128
698600.00	4352900.00	.000111	698600.00	4353000.00	.000099
698600.00	4353100.00	.000089	698600.00	4353200.00	.000080
698600.00	4353300.00	.000073	698700.00	4351300.00	.000103
698700.00	4351400.00	.000121	698700.00	4351500.00	.000143
698700.00	4351600.00	.000171	698700.00	4351700.00	.000213
698700.00	4351800.00	.000314	698700.00	4351900.00	.000448
698700.00	4352000.00	.000607	698700.00	4352100.00	.000649
698700.00	4352200.00	.000638	698700.00	4352300.00	.000524
698700.00	4352400.00	.000382	698700.00	4352500.00	.000291
698700.00	4352600.00	.000228	698700.00	4352700.00	.000176
698700.00	4352800.00	.000148	698700.00	4352900.00	.000130

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3F ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000113	698700.00	4353100.00	.000100
698700.00	4353200.00	.000088	698700.00	4353300.00	.000079
698800.00	4351300.00	.000108	698800.00	4351400.00	.000129
698800.00	4351500.00	.000157	698800.00	4351600.00	.000193
698800.00	4351700.00	.000240	698800.00	4351800.00	.000315
698800.00	4351900.00	.000505	698800.00	4352000.00	.000769
698800.00	4352100.00	.000934	698800.00	4352200.00	.000929
698800.00	4352300.00	.000721	698800.00	4352400.00	.000478
698800.00	4352500.00	.000360	698800.00	4352600.00	.000262
698800.00	4352700.00	.000209	698800.00	4352800.00	.000178
698800.00	4352900.00	.000151	698800.00	4353000.00	.000128
698800.00	4353100.00	.000110	698800.00	4353200.00	.000096
698800.00	4353300.00	.000086	698900.00	4351300.00	.000113
698900.00	4351400.00	.000135	698900.00	4351500.00	.000166
698900.00	4351600.00	.000211	698900.00	4351700.00	.000275
698900.00	4351800.00	.000365	698900.00	4351900.00	.000521
698900.00	4352000.00	.000950	698900.00	4352100.00	.001461
698900.00	4352200.00	.001496	698900.00	4352300.00	.001049
698900.00	4352400.00	.000657	698900.00	4352500.00	.000439
698900.00	4352600.00	.000326	698900.00	4352700.00	.000262
698900.00	4352800.00	.000211	698900.00	4352900.00	.000172
698900.00	4353000.00	.000143	698900.00	4353100.00	.000125
698900.00	4353200.00	.000110	698900.00	4353300.00	.000098
699000.00	4351300.00	.000120	699000.00	4351400.00	.000145
699000.00	4351500.00	.000179	699000.00	4351600.00	.000227
699000.00	4351700.00	.000301	699000.00	4351800.00	.000426
699000.00	4351900.00	.000630	699000.00	4352000.00	.001046
699000.00	4352100.00	.002402	699000.00	4352200.00	.002894
699000.00	4352300.00	.001614	699000.00	4352400.00	.000903
699000.00	4352500.00	.000589	699000.00	4352600.00	.000429
699000.00	4352700.00	.000319	699000.00	4352800.00	.000249
699000.00	4352900.00	.000206	699000.00	4353000.00	.000172
699000.00	4353100.00	.000146	699000.00	4353200.00	.000125
699000.00	4353300.00	.000109	699100.00	4351300.00	.000124
699100.00	4351400.00	.000152	699100.00	4351500.00	.000190
699100.00	4351600.00	.000247	699100.00	4351700.00	.000335
699100.00	4351800.00	.000479	699100.00	4351900.00	.000738
699100.00	4352000.00	.001376	699100.00	4352100.00	.003379
699100.00	4352200.00	.008341	699100.00	4352300.00	.003101
699100.00	4352400.00	.001430	699100.00	4352500.00	.000830

** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3F ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000570	699100.00	4352700.00	.000416
699100.00	4352800.00	.000315	699100.00	4352900.00	.000247
699100.00	4353000.00	.000200	699100.00	4353100.00	.000165
699100.00	4353200.00	.000139	699100.00	4353300.00	.000120
699200.00	4351300.00	.000125	699200.00	4351400.00	.000154
699200.00	4351500.00	.000193	699200.00	4351600.00	.000254
699200.00	4351700.00	.000349	699200.00	4351800.00	.000515
699200.00	4351900.00	.000847	699200.00	4352000.00	.001706
699200.00	4352100.00	.005303	699200.00	4352200.00	.121592
699200.00	4352300.00	.008479	699200.00	4352400.00	.002626
699200.00	4352500.00	.001271	699200.00	4352600.00	.000762
699200.00	4352700.00	.000513	699200.00	4352800.00	.000371
699200.00	4352900.00	.000282	699200.00	4353000.00	.000223
699200.00	4353100.00	.000182	699200.00	4353200.00	.000151
699200.00	4353300.00	.000129	699300.00	4351300.00	.000141
699300.00	4351400.00	.000175	699300.00	4351500.00	.000224
699300.00	4351600.00	.000299	699300.00	4351700.00	.000422
699300.00	4351800.00	.000643	699300.00	4351900.00	.001104
699300.00	4352000.00	.002343	699300.00	4352100.00	.008532
699300.00	4352200.00	.050275	699300.00	4352300.00	.019998
699300.00	4352400.00	.004704	699300.00	4352500.00	.002001
699300.00	4352600.00	.001103	699300.00	4352700.00	.000699
699300.00	4352800.00	.000484	699300.00	4352900.00	.000356
699300.00	4353000.00	.000275	699300.00	4353100.00	.000219
699300.00	4353200.00	.000179	699300.00	4353300.00	.000151
699400.00	4351300.00	.000159	699400.00	4351400.00	.000199
699400.00	4351500.00	.000255	699400.00	4351600.00	.000341
699400.00	4351700.00	.000480	699400.00	4351800.00	.000721
699400.00	4351900.00	.001302	699400.00	4352000.00	.002632
699400.00	4352100.00	.005957	699400.00	4352200.00	.010626
699400.00	4352300.00	.009203	699400.00	4352400.00	.004812
699400.00	4352500.00	.002375	699400.00	4352600.00	.001316
699400.00	4352700.00	.000836	699400.00	4352800.00	.000579
699400.00	4352900.00	.000424	699400.00	4353000.00	.000325
699400.00	4353100.00	.000257	699400.00	4353200.00	.000209
699400.00	4353300.00	.000174	699500.00	4351300.00	.000171
699500.00	4351400.00	.000212	699500.00	4351500.00	.000270
699500.00	4351600.00	.000365	699500.00	4351700.00	.000533
699500.00	4351800.00	.000812	699500.00	4351900.00	.001296
699500.00	4352000.00	.002178	699500.00	4352100.00	.003514

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3F ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.004655	699500.00	4352300.00	.004565
699500.00	4352400.00	.003358	699500.00	4352500.00	.002208
699500.00	4352600.00	.001395	699500.00	4352700.00	.000921
699500.00	4352800.00	.000635	699500.00	4352900.00	.000462
699500.00	4353000.00	.000357	699500.00	4353100.00	.000283
699500.00	4353200.00	.000231	699500.00	4353300.00	.000193
699600.00	4351300.00	.000177	699600.00	4351400.00	.000226
699600.00	4351500.00	.000296	699600.00	4351600.00	.000397
699600.00	4351700.00	.000550	699600.00	4351800.00	.000780
699600.00	4351900.00	.001143	699600.00	4352000.00	.001657
699600.00	4352100.00	.002251	699600.00	4352200.00	.002662
699600.00	4352300.00	.002691	699600.00	4352400.00	.002298
699600.00	4352500.00	.001757	699600.00	4352600.00	.001289
699600.00	4352700.00	.000917	699600.00	4352800.00	.000667
699600.00	4352900.00	.000499	699600.00	4353000.00	.000382
699600.00	4353100.00	.000299	699600.00	4353200.00	.000246
699600.00	4353300.00	.000206	699700.00	4351300.00	.000193
699700.00	4351400.00	.000242	699700.00	4351500.00	.000309
699700.00	4351600.00	.000400	699700.00	4351700.00	.000526
699700.00	4351800.00	.000711	699700.00	4351900.00	.000959
699700.00	4352000.00	.001256	699700.00	4352100.00	.001553
699700.00	4352200.00	.001742	699700.00	4352300.00	.001778
699700.00	4352400.00	.001633	699700.00	4352500.00	.001362
699700.00	4352600.00	.001090	699700.00	4352700.00	.000853
699700.00	4352800.00	.000652	699700.00	4352900.00	.000506
699700.00	4353000.00	.000399	699700.00	4353100.00	.000319
699700.00	4353200.00	.000261	699700.00	4353300.00	.000216
699800.00	4351300.00	.000201	699800.00	4351400.00	.000247
699800.00	4351500.00	.000307	699800.00	4351600.00	.000385
699800.00	4351700.00	.000491	699800.00	4351800.00	.000627
699800.00	4351900.00	.000792	699800.00	4352000.00	.000973
699800.00	4352100.00	.001136	699800.00	4352200.00	.001237
699800.00	4352300.00	.001266	699800.00	4352400.00	.001203
699800.00	4352500.00	.001067	699800.00	4352600.00	.000902
699800.00	4352700.00	.000749	699800.00	4352800.00	.000614
699800.00	4352900.00	.000493	699800.00	4353000.00	.000398
699800.00	4353100.00	.000326	699800.00	4353200.00	.000271
699800.00	4353300.00	.000228	699900.00	4351300.00	.000204
699900.00	4351400.00	.000244	699900.00	4351500.00	.000296
699900.00	4351600.00	.000364	699900.00	4351700.00	.000448

** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3F ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000548	699900.00	4351900.00	.000659
699900.00	4352000.00	.000772	699900.00	4352100.00	.000869
699900.00	4352200.00	.000928	699900.00	4352300.00	.000951
699900.00	4352400.00	.000921	699900.00	4352500.00	.000853
699900.00	4352600.00	.000751	699900.00	4352700.00	.000648
699900.00	4352800.00	.000553	699900.00	4352900.00	.000467
699900.00	4353000.00	.000388	699900.00	4353100.00	.000325
699900.00	4353200.00	.000274	699900.00	4353300.00	.000233
700000.00	4351300.00	.000201	700000.00	4351400.00	.000237
700000.00	4351500.00	.000283	700000.00	4351600.00	.000339
700000.00	4351700.00	.000404	700000.00	4351800.00	.000477
700000.00	4351900.00	.000556	700000.00	4352000.00	.000630
700000.00	4352100.00	.000691	700000.00	4352200.00	.000729
700000.00	4352300.00	.000746	700000.00	4352400.00	.000733
700000.00	4352500.00	.000694	700000.00	4352600.00	.000632
700000.00	4352700.00	.000561	700000.00	4352800.00	.000491
700000.00	4352900.00	.000428	700000.00	4353000.00	.000372
700000.00	4353100.00	.000317	700000.00	4353200.00	.000272
700000.00	4353300.00	.000234	700100.00	4351300.00	.000196
700100.00	4351400.00	.000229	700100.00	4351500.00	.000268
700100.00	4351600.00	.000312	700100.00	4351700.00	.000362
700100.00	4351800.00	.000417	700100.00	4351900.00	.000473
700100.00	4352000.00	.000524	700100.00	4352100.00	.000565
700100.00	4352200.00	.000592	700100.00	4352300.00	.000604
700100.00	4352400.00	.000598	700100.00	4352500.00	.000575
700100.00	4352600.00	.000537	700100.00	4352700.00	.000487
700100.00	4352800.00	.000437	700100.00	4352900.00	.000390
700100.00	4353000.00	.000346	700100.00	4353100.00	.000305
700100.00	4353200.00	.000265	700100.00	4353300.00	.000231
700200.00	4351300.00	.000190	700200.00	4351400.00	.000218
700200.00	4351500.00	.000251	700200.00	4351600.00	.000287
700200.00	4351700.00	.000326	700200.00	4351800.00	.000368
700200.00	4351900.00	.000407	700200.00	4352000.00	.000443
700200.00	4352100.00	.000472	700200.00	4352200.00	.000491
700200.00	4352300.00	.000501	700200.00	4352400.00	.000498
700200.00	4352500.00	.000484	700200.00	4352600.00	.000461
700200.00	4352700.00	.000427	700200.00	4352800.00	.000390
700200.00	4352900.00	.000354	700200.00	4353000.00	.000319
700200.00	4353100.00	.000287	700200.00	4353200.00	.000256
700200.00	4353300.00	.000226	700300.00	4351300.00	.000182

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3F ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000207	700300.00	4351500.00	.000234
700300.00	4351600.00	.000263	700300.00	4351700.00	.000295
700300.00	4351800.00	.000326	700300.00	4351900.00	.000356
700300.00	4352000.00	.000382	700300.00	4352100.00	.000403
700300.00	4352200.00	.000417	700300.00	4352300.00	.000425
700300.00	4352400.00	.000424	700300.00	4352500.00	.000416
700300.00	4352600.00	.000400	700300.00	4352700.00	.000378
700300.00	4352800.00	.000350	700300.00	4352900.00	.000321
700300.00	4353000.00	.000293	700300.00	4353100.00	.000267
700300.00	4353200.00	.000242	700300.00	4353300.00	.000219
700400.00	4351300.00	.000174	700400.00	4351400.00	.000195
700400.00	4351500.00	.000217	700400.00	4351600.00	.000241
700400.00	4351700.00	.000267	700400.00	4351800.00	.000291
700400.00	4351900.00	.000314	700400.00	4352000.00	.000334
700400.00	4352100.00	.000350	700400.00	4352200.00	.000360
700400.00	4352300.00	.000367	700400.00	4352400.00	.000367
700400.00	4352500.00	.000361	700400.00	4352600.00	.000351
700400.00	4352700.00	.000336	700400.00	4352800.00	.000314
700400.00	4352900.00	.000292	700400.00	4353000.00	.000269
700400.00	4353100.00	.000248	700400.00	4353200.00	.000227
700400.00	4353300.00	.000208			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3G ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000010	698400.00	4351400.00	.000012
698400.00	4351500.00	.000015	698400.00	4351600.00	.000019
698400.00	4351700.00	.000024	698400.00	4351800.00	.000029
698400.00	4351900.00	.000035	698400.00	4352000.00	.000036
698400.00	4352100.00	.000037	698400.00	4352200.00	.000036
698400.00	4352300.00	.000032	698400.00	4352400.00	.000027
698400.00	4352500.00	.000022	698400.00	4352600.00	.000018
698400.00	4352700.00	.000016	698400.00	4352800.00	.000013
698400.00	4352900.00	.000011	698400.00	4353000.00	.000010
698400.00	4353100.00	.000009	698400.00	4353200.00	.000008
698400.00	4353300.00	.000008	698500.00	4351300.00	.000011
698500.00	4351400.00	.000013	698500.00	4351500.00	.000014
698500.00	4351600.00	.000019	698500.00	4351700.00	.000025
698500.00	4351800.00	.000033	698500.00	4351900.00	.000041
698500.00	4352000.00	.000045	698500.00	4352100.00	.000046
698500.00	4352200.00	.000045	698500.00	4352300.00	.000039
698500.00	4352400.00	.000032	698500.00	4352500.00	.000025
698500.00	4352600.00	.000021	698500.00	4352700.00	.000018
698500.00	4352800.00	.000015	698500.00	4352900.00	.000012
698500.00	4353000.00	.000011	698500.00	4353100.00	.000010
698500.00	4353200.00	.000009	698500.00	4353300.00	.000008
698600.00	4351300.00	.000012	698600.00	4351400.00	.000014
698600.00	4351500.00	.000016	698600.00	4351600.00	.000019
698600.00	4351700.00	.000026	698600.00	4351800.00	.000036
698600.00	4351900.00	.000048	698600.00	4352000.00	.000058
698600.00	4352100.00	.000060	698600.00	4352200.00	.000059
698600.00	4352300.00	.000050	698600.00	4352400.00	.000039
698600.00	4352500.00	.000030	698600.00	4352600.00	.000024
698600.00	4352700.00	.000020	698600.00	4352800.00	.000016
698600.00	4352900.00	.000014	698600.00	4353000.00	.000012
698600.00	4353100.00	.000011	698600.00	4353200.00	.000010
698600.00	4353300.00	.000009	698700.00	4351300.00	.000013
698700.00	4351400.00	.000015	698700.00	4351500.00	.000018
698700.00	4351600.00	.000021	698700.00	4351700.00	.000026
698700.00	4351800.00	.000038	698700.00	4351900.00	.000055
698700.00	4352000.00	.000076	698700.00	4352100.00	.000082
698700.00	4352200.00	.000081	698700.00	4352300.00	.000066
698700.00	4352400.00	.000048	698700.00	4352500.00	.000036
698700.00	4352600.00	.000028	698700.00	4352700.00	.000022
698700.00	4352800.00	.000018	698700.00	4352900.00	.000016

5545

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3G ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000014	698700.00	4353100.00	.000012
698700.00	4353200.00	.000011	698700.00	4353300.00	.000010
698800.00	4351300.00	.000013	698800.00	4351400.00	.000016
698800.00	4351500.00	.000019	698800.00	4351600.00	.000024
698800.00	4351700.00	.000030	698800.00	4351800.00	.000038
698800.00	4351900.00	.000062	698800.00	4352000.00	.000096
698800.00	4352100.00	.000119	698800.00	4352200.00	.000119
698800.00	4352300.00	.000092	698800.00	4352400.00	.000061
698800.00	4352500.00	.000045	698800.00	4352600.00	.000033
698800.00	4352700.00	.000026	698800.00	4352800.00	.000022
698800.00	4352900.00	.000019	698800.00	4353000.00	.000016
698800.00	4353100.00	.000014	698800.00	4353200.00	.000012
698800.00	4353300.00	.000011	698900.00	4351300.00	.000014
698900.00	4351400.00	.000017	698900.00	4351500.00	.000020
698900.00	4351600.00	.000026	698900.00	4351700.00	.000034
698900.00	4351800.00	.000045	698900.00	4351900.00	.000063
698900.00	4352000.00	.000118	698900.00	4352100.00	.000188
698900.00	4352200.00	.000194	698900.00	4352300.00	.000135
698900.00	4352400.00	.000083	698900.00	4352500.00	.000055
698900.00	4352600.00	.000041	698900.00	4352700.00	.000033
698900.00	4352800.00	.000026	698900.00	4352900.00	.000021
698900.00	4353000.00	.000018	698900.00	4353100.00	.000016
698900.00	4353200.00	.000014	698900.00	4353300.00	.000012
699000.00	4351300.00	.000015	699000.00	4351400.00	.000018
699000.00	4351500.00	.000022	699000.00	4351600.00	.000028
699000.00	4351700.00	.000037	699000.00	4351800.00	.000053
699000.00	4351900.00	.000079	699000.00	4352000.00	.000126
699000.00	4352100.00	.000305	699000.00	4352200.00	.000385
699000.00	4352300.00	.000208	699000.00	4352400.00	.000115
699000.00	4352500.00	.000075	699000.00	4352600.00	.000054
699000.00	4352700.00	.000040	699000.00	4352800.00	.000031
699000.00	4352900.00	.000026	699000.00	4353000.00	.000021
699000.00	4353100.00	.000018	699000.00	4353200.00	.000016
699000.00	4353300.00	.000014	699100.00	4351300.00	.000015
699100.00	4351400.00	.000019	699100.00	4351500.00	.000023
699100.00	4351600.00	.000030	699100.00	4351700.00	.000041
699100.00	4351800.00	.000059	699100.00	4351900.00	.000092
699100.00	4352000.00	.000172	699100.00	4352100.00	.000405
699100.00	4352200.00	.001187	699100.00	4352300.00	.000412
699100.00	4352400.00	.000186	699100.00	4352500.00	.000105

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3G ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000073	699100.00	4352700.00	.000052
699100.00	4352800.00	.000039	699100.00	4352900.00	.000031
699100.00	4353000.00	.000025	699100.00	4353100.00	.000021
699100.00	4353200.00	.000017	699100.00	4353300.00	.000015
699200.00	4351300.00	.000015	699200.00	4351400.00	.000019
699200.00	4351500.00	.000024	699200.00	4351600.00	.000031
699200.00	4351700.00	.000043	699200.00	4351800.00	.000063
699200.00	4351900.00	.000103	699200.00	4352000.00	.000208
699200.00	4352100.00	.000660	699200.00	4352200.00	.020359
699200.00	4352300.00	.001229	699200.00	4352400.00	.000341
699200.00	4352500.00	.000161	699200.00	4352600.00	.000096
699200.00	4352700.00	.000064	699200.00	4352800.00	.000046
699200.00	4352900.00	.000035	699200.00	4353000.00	.000028
699200.00	4353100.00	.000022	699200.00	4353200.00	.000019
699200.00	4353300.00	.000016	699300.00	4351300.00	.000018
699300.00	4351400.00	.000022	699300.00	4351500.00	.000028
699300.00	4351600.00	.000037	699300.00	4351700.00	.000053
699300.00	4351800.00	.000080	699300.00	4351900.00	.000137
699300.00	4352000.00	.000288	699300.00	4352100.00	.001028
699300.00	4352200.00	.004865	699300.00	4352300.00	.002382
699300.00	4352400.00	.000598	699300.00	4352500.00	.000254
699300.00	4352600.00	.000140	699300.00	4352700.00	.000088
699300.00	4352800.00	.000061	699300.00	4352900.00	.000045
699300.00	4353000.00	.000034	699300.00	4353100.00	.000027
699300.00	4353200.00	.000022	699300.00	4353300.00	.000019
699400.00	4351300.00	.000020	699400.00	4351400.00	.000024
699400.00	4351500.00	.000031	699400.00	4351600.00	.000042
699400.00	4351700.00	.000059	699400.00	4351800.00	.000090
699400.00	4351900.00	.000160	699400.00	4352000.00	.000316
699400.00	4352100.00	.000686	699400.00	4352200.00	.001172
699400.00	4352300.00	.001047	699400.00	4352400.00	.000580
699400.00	4352500.00	.000293	699400.00	4352600.00	.000165
699400.00	4352700.00	.000104	699400.00	4352800.00	.000072
699400.00	4352900.00	.000053	699400.00	4353000.00	.000040
699400.00	4353100.00	.000032	699400.00	4353200.00	.000026
699400.00	4353300.00	.000022	699500.00	4351300.00	.000021
699500.00	4351400.00	.000026	699500.00	4351500.00	.000033
699500.00	4351600.00	.000045	699500.00	4351700.00	.000066
699500.00	4351800.00	.000099	699500.00	4351900.00	.000156
699500.00	4352000.00	.000259	699500.00	4352100.00	.000408

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3G ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.000534	699500.00	4352300.00	.000527
699500.00	4352400.00	.000397	699500.00	4352500.00	.000267
699500.00	4352600.00	.000171	699500.00	4352700.00	.000114
699500.00	4352800.00	.000079	699500.00	4352900.00	.000057
699500.00	4353000.00	.000044	699500.00	4353100.00	.000035
699500.00	4353200.00	.000029	699500.00	4353300.00	.000024
699600.00	4351300.00	.000022	699600.00	4351400.00	.000028
699600.00	4351500.00	.000036	699600.00	4351600.00	.000049
699600.00	4351700.00	.000067	699600.00	4351800.00	.000094
699600.00	4351900.00	.000137	699600.00	4352000.00	.000197
699600.00	4352100.00	.000264	699600.00	4352200.00	.000311
699600.00	4352300.00	.000315	699600.00	4352400.00	.000272
699600.00	4352500.00	.000210	699600.00	4352600.00	.000157
699600.00	4352700.00	.000112	699600.00	4352800.00	.000082
699600.00	4352900.00	.000062	699600.00	4353000.00	.000047
699600.00	4353100.00	.000037	699600.00	4353200.00	.000030
699600.00	4353300.00	.000025	699700.00	4351300.00	.000024
699700.00	4351400.00	.000030	699700.00	4351500.00	.000038
699700.00	4351600.00	.000049	699700.00	4351700.00	.000064
699700.00	4351800.00	.000086	699700.00	4351900.00	.000115
699700.00	4352000.00	.000149	699700.00	4352100.00	.000184
699700.00	4352200.00	.000205	699700.00	4352300.00	.000210
699700.00	4352400.00	.000194	699700.00	4352500.00	.000163
699700.00	4352600.00	.000131	699700.00	4352700.00	.000104
699700.00	4352800.00	.000080	699700.00	4352900.00	.000062
699700.00	4353000.00	.000049	699700.00	4353100.00	.000039
699700.00	4353200.00	.000032	699700.00	4353300.00	.000027
699800.00	4351300.00	.000025	699800.00	4351400.00	.000030
699800.00	4351500.00	.000037	699800.00	4351600.00	.000047
699800.00	4351700.00	.000059	699800.00	4351800.00	.000076
699800.00	4351900.00	.000095	699800.00	4352000.00	.000116
699800.00	4352100.00	.000135	699800.00	4352200.00	.000147
699800.00	4352300.00	.000150	699800.00	4352400.00	.000143
699800.00	4352500.00	.000128	699800.00	4352600.00	.000109
699800.00	4352700.00	.000091	699800.00	4352800.00	.000075
699800.00	4352900.00	.000060	699800.00	4353000.00	.000049
699800.00	4353100.00	.000040	699800.00	4353200.00	.000033
699800.00	4353300.00	.000028	699900.00	4351300.00	.000025
699900.00	4351400.00	.000030	699900.00	4351500.00	.000036
699900.00	4351600.00	.000044	699900.00	4351700.00	.000054

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3G ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000066	699900.00	4351900.00	.000079
699900.00	4352000.00	.000092	699900.00	4352100.00	.000104
699900.00	4352200.00	.000111	699900.00	4352300.00	.000113
699900.00	4352400.00	.000110	699900.00	4352500.00	.000102
699900.00	4352600.00	.000091	699900.00	4352700.00	.000078
699900.00	4352800.00	.000067	699900.00	4352900.00	.000057
699900.00	4353000.00	.000047	699900.00	4353100.00	.000040
699900.00	4353200.00	.000034	699900.00	4353300.00	.000029
700000.00	4351300.00	.000025	700000.00	4351400.00	.000029
700000.00	4351500.00	.000034	700000.00	4351600.00	.000041
700000.00	4351700.00	.000049	700000.00	4351800.00	.000058
700000.00	4351900.00	.000067	700000.00	4352000.00	.000076
700000.00	4352100.00	.000083	700000.00	4352200.00	.000087
700000.00	4352300.00	.000089	700000.00	4352400.00	.000088
700000.00	4352500.00	.000083	700000.00	4352600.00	.000076
700000.00	4352700.00	.000068	700000.00	4352800.00	.000060
700000.00	4352900.00	.000052	700000.00	4353000.00	.000045
700000.00	4353100.00	.000039	700000.00	4353200.00	.000033
700000.00	4353300.00	.000029	700100.00	4351300.00	.000024
700100.00	4351400.00	.000028	700100.00	4351500.00	.000033
700100.00	4351600.00	.000038	700100.00	4351700.00	.000044
700100.00	4351800.00	.000050	700100.00	4351900.00	.000057
700100.00	4352000.00	.000063	700100.00	4352100.00	.000068
700100.00	4352200.00	.000071	700100.00	4352300.00	.000073
700100.00	4352400.00	.000072	700100.00	4352500.00	.000069
700100.00	4352600.00	.000065	700100.00	4352700.00	.000059
700100.00	4352800.00	.000053	700100.00	4352900.00	.000047
700100.00	4353000.00	.000042	700100.00	4353100.00	.000037
700100.00	4353200.00	.000032	700100.00	4353300.00	.000028
700200.00	4351300.00	.000023	700200.00	4351400.00	.000027
700200.00	4351500.00	.000030	700200.00	4351600.00	.000035
700200.00	4351700.00	.000040	700200.00	4351800.00	.000044
700200.00	4351900.00	.000049	700200.00	4352000.00	.000053
700200.00	4352100.00	.000057	700200.00	4352200.00	.000059
700200.00	4352300.00	.000060	700200.00	4352400.00	.000060
700200.00	4352500.00	.000058	700200.00	4352600.00	.000056
700200.00	4352700.00	.000052	700200.00	4352800.00	.000047
700200.00	4352900.00	.000043	700200.00	4353000.00	.000039
700200.00	4353100.00	.000035	700200.00	4353200.00	.000031
700200.00	4353300.00	.000028	700300.00	4351300.00	.000022

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 3G ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000025	700300.00	4351500.00	.000028
700300.00	4351600.00	.000032	700300.00	4351700.00	.000036
700300.00	4351800.00	.000039	700300.00	4351900.00	.000043
700300.00	4352000.00	.000046	700300.00	4352100.00	.000049
700300.00	4352200.00	.000050	700300.00	4352300.00	.000051
700300.00	4352400.00	.000051	700300.00	4352500.00	.000050
700300.00	4352600.00	.000048	700300.00	4352700.00	.000046
700300.00	4352800.00	.000042	700300.00	4352900.00	.000039
700300.00	4353000.00	.000036	700300.00	4353100.00	.000032
700300.00	4353200.00	.000029	700300.00	4353300.00	.000027
700400.00	4351300.00	.000021	700400.00	4351400.00	.000024
700400.00	4351500.00	.000026	700400.00	4351600.00	.000029
700400.00	4351700.00	.000032	700400.00	4351800.00	.000035
700400.00	4351900.00	.000038	700400.00	4352000.00	.000040
700400.00	4352100.00	.000042	700400.00	4352200.00	.000044
700400.00	4352300.00	.000044	700400.00	4352400.00	.000044
700400.00	4352500.00	.000044	700400.00	4352600.00	.000042
700400.00	4352700.00	.000041	700400.00	4352800.00	.000038
700400.00	4352900.00	.000035	700400.00	4353000.00	.000033
700400.00	4353100.00	.000030	700400.00	4353200.00	.000028
700400.00	4353300.00	.000025			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.008182	698400.00	4351400.00	.009915
698400.00	4351500.00	.011929	698400.00	4351600.00	.014245
698400.00	4351700.00	.016867	698400.00	4351800.00	.019776
698400.00	4351900.00	.021553	698400.00	4352000.00	.022248
698400.00	4352100.00	.022545	698400.00	4352200.00	.022379
698400.00	4352300.00	.021320	698400.00	4352400.00	.019137
698400.00	4352500.00	.016735	698400.00	4352600.00	.014240
698400.00	4352700.00	.011826	698400.00	4352800.00	.010644
698400.00	4352900.00	.009501	698400.00	4353000.00	.008431
698400.00	4353100.00	.007450	698400.00	4353200.00	.006567
698400.00	4353300.00	.005781	698500.00	4351300.00	.008204
698500.00	4351400.00	.009808	698500.00	4351500.00	.012120
698500.00	4351600.00	.014846	698500.00	4351700.00	.018011
698500.00	4351800.00	.021616	698500.00	4351900.00	.025050
698500.00	4352000.00	.026220	698500.00	4352100.00	.026810
698500.00	4352200.00	.026667	698500.00	4352300.00	.025263
698500.00	4352400.00	.022364	698500.00	4352500.00	.019139
698500.00	4352600.00	.015802	698500.00	4352700.00	.013324
698500.00	4352800.00	.011794	698500.00	4352900.00	.010355
698500.00	4353000.00	.009040	698500.00	4353100.00	.007864
698500.00	4353200.00	.006827	698500.00	4353300.00	.006399
698600.00	4351300.00	.008840	698600.00	4351400.00	.009846
698600.00	4351500.00	.012023	698600.00	4351600.00	.015217
698600.00	4351700.00	.019070	698600.00	4351800.00	.023696
698600.00	4351900.00	.028979	698600.00	4352000.00	.031573
698600.00	4352100.00	.032583	698600.00	4352200.00	.032508
698600.00	4352300.00	.030600	698600.00	4352400.00	.026593
698600.00	4352500.00	.022143	698600.00	4352600.00	.017605
698600.00	4352700.00	.015171	698600.00	4352800.00	.013109
698600.00	4352900.00	.011248	698600.00	4353000.00	.009628
698600.00	4353100.00	.008219	698600.00	4353200.00	.007642
698600.00	4353300.00	.007079	698700.00	4351300.00	.009477
698700.00	4351400.00	.010696	698700.00	4351500.00	.012092
698700.00	4351600.00	.015202	698700.00	4351700.00	.019996
698700.00	4351800.00	.025873	698700.00	4351900.00	.032864
698700.00	4352000.00	.038760	698700.00	4352100.00	.040540
698700.00	4352200.00	.040653	698700.00	4352300.00	.037963
698700.00	4352400.00	.032186	698700.00	4352500.00	.025805
698700.00	4352600.00	.020371	698700.00	4352700.00	.017378
698700.00	4352800.00	.014612	698700.00	4352900.00	.012178

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.010134	698700.00	4353100.00	.009324
698700.00	4353200.00	.008542	698700.00	4353300.00	.007808
698800.00	4351300.00	.010086	698800.00	4351400.00	.011543
698800.00	4351500.00	.013295	698800.00	4351600.00	.015445
698800.00	4351700.00	.020267	698800.00	4351800.00	.027732
698800.00	4351900.00	.037104	698800.00	4352000.00	.048354
698800.00	4352100.00	.052120	698800.00	4352200.00	.052808
698800.00	4352300.00	.048835	698800.00	4352400.00	.039992
698800.00	4352500.00	.030262	698800.00	4352600.00	.024193
698800.00	4352700.00	.019909	698800.00	4352800.00	.016158
698800.00	4352900.00	.013017	698800.00	4353000.00	.011743
698800.00	4353100.00	.010555	698800.00	4353200.00	.009510
698800.00	4353300.00	.008574	698900.00	4351300.00	.010620
698900.00	4351400.00	.012335	698900.00	4351500.00	.014568
698900.00	4351600.00	.017331	698900.00	4351700.00	.020708
698900.00	4351800.00	.028567	698900.00	4351900.00	.041317
698900.00	4352000.00	.057778	698900.00	4352100.00	.069719
698900.00	4352200.00	.071893	698900.00	4352300.00	.065680
698900.00	4352400.00	.051088	698900.00	4352500.00	.036353
698900.00	4352600.00	.029085	698900.00	4352700.00	.022682
698900.00	4352800.00	.017533	698900.00	4352900.00	.015501
698900.00	4353000.00	.013603	698900.00	4353100.00	.011918
698900.00	4353200.00	.010522	698900.00	4353300.00	.009352
699000.00	4351300.00	.011018	699000.00	4351400.00	.013035
699000.00	4351500.00	.015706	699000.00	4351600.00	.019165
699000.00	4351700.00	.023665	699000.00	4351800.00	.029543
699000.00	4351900.00	.043948	699000.00	4352000.00	.068452
699000.00	4352100.00	.097835	699000.00	4352200.00	.104227
699000.00	4352300.00	.093665	699000.00	4352400.00	.067007
699000.00	4352500.00	.046899	699000.00	4352600.00	.034844
699000.00	4352700.00	.025289	699000.00	4352800.00	.021600
699000.00	4352900.00	.018347	699000.00	4353000.00	.015612
699000.00	4353100.00	.013354	699000.00	4353200.00	.011535
699000.00	4353300.00	.010106	699100.00	4351300.00	.011603
699100.00	4351400.00	.013663	699100.00	4351500.00	.016511
699100.00	4351600.00	.020663	699100.00	4351700.00	.026480
699100.00	4351800.00	.034722	699100.00	4351900.00	.046268
699100.00	4352000.00	.077138	699100.00	4352100.00	.133818
699100.00	4352200.00	.165925	699100.00	4352300.00	.145700
699100.00	4352400.00	.089160	699100.00	4352500.00	.061045

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.040379	699100.00	4352700.00	.032799
699100.00	4352800.00	.026399	699100.00	4352900.00	.021399
699100.00	4353000.00	.017639	699100.00	4353100.00	.014908
699100.00	4353200.00	.013087	699100.00	4353300.00	.011612
699200.00	4351300.00	.012221	699200.00	4351400.00	.014617
699200.00	4351500.00	.017803	699200.00	4351600.00	.022154
699200.00	4351700.00	.028381	699200.00	4351800.00	.039098
699200.00	4351900.00	.056256	699200.00	4352000.00	.084157
699200.00	4352100.00	.172818	699200.00	4352200.00	.310034
699200.00	4352300.00	.262825	699200.00	4352400.00	.136409
699200.00	4352500.00	.076276	699200.00	4352600.00	.056397
699200.00	4352700.00	.041563	699200.00	4352800.00	.031358
699200.00	4352900.00	.025295	699200.00	4353000.00	.021067
699200.00	4353100.00	.017768	699200.00	4353200.00	.015159
699200.00	4353300.00	.013128	699300.00	4351300.00	.012609
699300.00	4351400.00	.015220	699300.00	4351500.00	.018778
699300.00	4351600.00	.023851	699300.00	4351700.00	.031492
699300.00	4351800.00	.043561	699300.00	4351900.00	.064070
699300.00	4352000.00	.106665	699300.00	4352100.00	.209633
699300.00	4352200.00	.707112	699300.00	4352300.00	.622806
699300.00	4352400.00	.210084	699300.00	4352500.00	.121797
699300.00	4352600.00	.075338	699300.00	4352700.00	.054361
699300.00	4352800.00	.040551	699300.00	4352900.00	.031312
699300.00	4353000.00	.024946	699300.00	4353100.00	.020431
699300.00	4353200.00	.017064	699300.00	4353300.00	.014523
699400.00	4351300.00	.012681	699400.00	4351400.00	.015359
699400.00	4351500.00	.019048	699400.00	4351600.00	.024394
699400.00	4351700.00	.032635	699400.00	4351800.00	.046197
699400.00	4351900.00	.071069	699400.00	4352000.00	.125752
699400.00	4352100.00	.291693	699400.00	4352200.00	1.353894
699400.00	4352300.00	2.673610	699400.00	4352400.00	.494324
699400.00	4352500.00	.200987	699400.00	4352600.00	.109776
699400.00	4352700.00	.070133	699400.00	4352800.00	.049000
699400.00	4352900.00	.036346	699400.00	4353000.00	.028189
699400.00	4353100.00	.022656	699400.00	4353200.00	.018659
699400.00	4353300.00	.015718	699500.00	4351300.00	.014113
699500.00	4351400.00	.017268	699500.00	4351500.00	.021679
699500.00	4351600.00	.028210	699500.00	4351700.00	.038518
699500.00	4351800.00	.056007	699500.00	4351900.00	.089378
699500.00	4352000.00	.166313	699500.00	4352100.00	.411601

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	2.261173	699500.00	4352300.00	5.966073
699500.00	4352400.00	1.059084	699500.00	4352500.00	.339657
699500.00	4352600.00	.165250	699500.00	4352700.00	.097967
699500.00	4352800.00	.064988	699500.00	4352900.00	.046410
699500.00	4353000.00	.034950	699500.00	4353100.00	.027455
699500.00	4353200.00	.022197	699500.00	4353300.00	.018403
699600.00	4351300.00	.015912	699600.00	4351400.00	.019581
699600.00	4351500.00	.024718	699600.00	4351600.00	.032269
699600.00	4351700.00	.044145	699600.00	4351800.00	.063867
699600.00	4351900.00	.103077	699600.00	4352000.00	.196904
699600.00	4352100.00	.426057	699600.00	4352200.00	.967080
699600.00	4352300.00	1.301868	699600.00	4352400.00	.813802
699600.00	4352500.00	.388710	699600.00	4352600.00	.200463
699600.00	4352700.00	.117775	699600.00	4352800.00	.078475
699600.00	4352900.00	.055796	699600.00	4353000.00	.041734
699600.00	4353100.00	.032491	699600.00	4353200.00	.026035
699600.00	4353300.00	.021404	699700.00	4351300.00	.017143
699700.00	4351400.00	.021044	699700.00	4351500.00	.026426
699700.00	4351600.00	.034108	699700.00	4351700.00	.047993
699700.00	4351800.00	.071592	699700.00	4351900.00	.111931
699700.00	4352000.00	.183224	699700.00	4352100.00	.312604
699700.00	4352200.00	.478767	699700.00	4352300.00	.557727
699700.00	4352400.00	.469765	699700.00	4352500.00	.319731
699700.00	4352600.00	.201369	699700.00	4352700.00	.129020
699700.00	4352800.00	.086636	699700.00	4352900.00	.060740
699700.00	4353000.00	.045858	699700.00	4353100.00	.035870
699700.00	4353200.00	.028790	699700.00	4353300.00	.023725
699800.00	4351300.00	.017883	699800.00	4351400.00	.021881
699800.00	4351500.00	.028413	699800.00	4351600.00	.037706
699800.00	4351700.00	.051423	699800.00	4351800.00	.072205
699800.00	4351900.00	.103767	699800.00	4352000.00	.153935
699800.00	4352100.00	.219497	699800.00	4352200.00	.284479
699800.00	4352300.00	.314310	699800.00	4352400.00	.293453
699800.00	4352500.00	.233738	699800.00	4352600.00	.174210
699800.00	4352700.00	.124243	699800.00	4352800.00	.088940
699800.00	4352900.00	.065327	699800.00	4353000.00	.049376
699800.00	4353100.00	.038169	699800.00	4353200.00	.030496
699800.00	4353300.00	.025348	699900.00	4351300.00	.019191
699900.00	4351400.00	.023838	699900.00	4351500.00	.030202
699900.00	4351600.00	.038858	699900.00	4351700.00	.050765

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.067466	699900.00	4351900.00	.092157
699900.00	4352000.00	.123492	699900.00	4352100.00	.159102
699900.00	4352200.00	.189410	699900.00	4352300.00	.203842
699900.00	4352400.00	.197769	699900.00	4352500.00	.172668
699900.00	4352600.00	.140205	699900.00	4352700.00	.110782
699900.00	4352800.00	.084925	699900.00	4352900.00	.065282
699900.00	4353000.00	.050933	699900.00	4353100.00	.040353
699900.00	4353200.00	.032545	699900.00	4353300.00	.026771
700000.00	4351300.00	.020283	700000.00	4351400.00	.024675
700000.00	4351500.00	.030506	700000.00	4351600.00	.038148
700000.00	4351700.00	.048120	700000.00	4351800.00	.061853
700000.00	4351900.00	.079008	700000.00	4352000.00	.098990
700000.00	4352100.00	.119622	700000.00	4352200.00	.135736
700000.00	4352300.00	.143815	700000.00	4352400.00	.142170
700000.00	4352500.00	.131028	700000.00	4352600.00	.112584
700000.00	4352700.00	.093966	700000.00	4352800.00	.077583
700000.00	4352900.00	.062537	700000.00	4353000.00	.050249
700000.00	4353100.00	.040763	700000.00	4353200.00	.033634
700000.00	4353300.00	.028073	700100.00	4351300.00	.020722
700100.00	4351400.00	.024785	700100.00	4351500.00	.029874
700100.00	4351600.00	.036386	700100.00	4351700.00	.045066
700100.00	4351800.00	.055468	700100.00	4351900.00	.067465
700100.00	4352000.00	.080476	700100.00	4352100.00	.092968
700100.00	4352200.00	.102423	700100.00	4352300.00	.107411
700100.00	4352400.00	.107251	700100.00	4352500.00	.101591
700100.00	4352600.00	.091576	700100.00	4352700.00	.079701
700100.00	4352800.00	.068249	700100.00	4352900.00	.057935
700100.00	4353000.00	.048218	700100.00	4353100.00	.040179
700100.00	4353200.00	.033763	700100.00	4353300.00	.028582
700200.00	4351300.00	.020682	700200.00	4351400.00	.024349
700200.00	4351500.00	.028798	700200.00	4351600.00	.034505
700200.00	4351700.00	.041364	700200.00	4351800.00	.049246
700200.00	4351900.00	.057916	700200.00	4352000.00	.066824
700200.00	4352100.00	.074765	700200.00	4352200.00	.080690
700200.00	4352300.00	.084012	700200.00	4352400.00	.084364
700200.00	4352500.00	.081424	700200.00	4352600.00	.075819
700200.00	4352700.00	.067864	700200.00	4352800.00	.059754
700200.00	4352900.00	.052078	700200.00	4353000.00	.045361
700200.00	4353100.00	.038896	700200.00	4353200.00	.033211
700200.00	4353300.00	.028499	700300.00	4351300.00	.020305

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.023557	700300.00	4351500.00	.027632
700300.00	4351600.00	.032328	700300.00	4351700.00	.037649
700300.00	4351800.00	.043623	700300.00	4351900.00	.050007
700300.00	4352000.00	.056240	700300.00	4352100.00	.061628
700300.00	4352200.00	.065618	700300.00	4352300.00	.067943
700300.00	4352400.00	.068429	700300.00	4352500.00	.066764
700300.00	4352600.00	.063386	700300.00	4352700.00	.058178
700300.00	4352800.00	.052361	700300.00	4352900.00	.046822
700300.00	4353000.00	.041634	700300.00	4353100.00	.036899
700300.00	4353200.00	.032206	700300.00	4353300.00	.027990
700400.00	4351300.00	.019708	700400.00	4351400.00	.022732
700400.00	4351500.00	.026180	700400.00	4351600.00	.030050
700400.00	4351700.00	.034315	700400.00	4351800.00	.038892
700400.00	4351900.00	.043577	700400.00	4352000.00	.047943
700400.00	4352100.00	.051744	700400.00	4352200.00	.054551
700400.00	4352300.00	.056246	700400.00	4352400.00	.056746
700400.00	4352500.00	.055781	700400.00	4352600.00	.053674
700400.00	4352700.00	.050501	700400.00	4352800.00	.046354
700400.00	4352900.00	.042145	700400.00	4353000.00	.038067
700400.00	4353100.00	.034238	700400.00	4353200.00	.030720
700400.00	4353300.00	.027193			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000021	698400.00	4351400.00	.000025
698400.00	4351500.00	.000030	698400.00	4351600.00	.000036
698400.00	4351700.00	.000042	698400.00	4351800.00	.000048
698400.00	4351900.00	.000050	698400.00	4352000.00	.000051
698400.00	4352100.00	.000051	698400.00	4352200.00	.000050
698400.00	4352300.00	.000045	698400.00	4352400.00	.000040
698400.00	4352500.00	.000034	698400.00	4352600.00	.000029
698400.00	4352700.00	.000025	698400.00	4352800.00	.000022
698400.00	4352900.00	.000020	698400.00	4353000.00	.000018
698400.00	4353100.00	.000016	698400.00	4353200.00	.000014
698400.00	4353300.00	.000013	698500.00	4351300.00	.000021
698500.00	4351400.00	.000025	698500.00	4351500.00	.000031
698500.00	4351600.00	.000038	698500.00	4351700.00	.000046
698500.00	4351800.00	.000054	698500.00	4351900.00	.000058
698500.00	4352000.00	.000060	698500.00	4352100.00	.000060
698500.00	4352200.00	.000059	698500.00	4352300.00	.000053
698500.00	4352400.00	.000046	698500.00	4352500.00	.000038
698500.00	4352600.00	.000031	698500.00	4352700.00	.000028
698500.00	4352800.00	.000025	698500.00	4352900.00	.000022
698500.00	4353000.00	.000019	698500.00	4353100.00	.000016
698500.00	4353200.00	.000015	698500.00	4353300.00	.000014
698600.00	4351300.00	.000021	698600.00	4351400.00	.000025
698600.00	4351500.00	.000032	698600.00	4351600.00	.000040
698600.00	4351700.00	.000049	698600.00	4351800.00	.000061
698600.00	4351900.00	.000070	698600.00	4352000.00	.000073
698600.00	4352100.00	.000073	698600.00	4352200.00	.000071
698600.00	4352300.00	.000063	698600.00	4352400.00	.000054
698600.00	4352500.00	.000044	698600.00	4352600.00	.000036
698600.00	4352700.00	.000031	698600.00	4352800.00	.000027
698600.00	4352900.00	.000023	698600.00	4353000.00	.000020
698600.00	4353100.00	.000018	698600.00	4353200.00	.000016
698600.00	4353300.00	.000015	698700.00	4351300.00	.000023
698700.00	4351400.00	.000026	698700.00	4351500.00	.000031
698700.00	4351600.00	.000041	698700.00	4351700.00	.000053
698700.00	4351800.00	.000068	698700.00	4351900.00	.000085
698700.00	4352000.00	.000090	698700.00	4352100.00	.000091
698700.00	4352200.00	.000089	698700.00	4352300.00	.000077
698700.00	4352400.00	.000064	698700.00	4352500.00	.000049
698700.00	4352600.00	.000042	698700.00	4352700.00	.000035
698700.00	4352800.00	.000030	698700.00	4352900.00	.000025

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000022	698700.00	4353100.00	.000020
698700.00	4353200.00	.000018	698700.00	4353300.00	.000017
698800.00	4351300.00	.000025	698800.00	4351400.00	.000028
698800.00	4351500.00	.000033	698800.00	4351600.00	.000041
698800.00	4351700.00	.000056	698800.00	4351800.00	.000075
698800.00	4351900.00	.000099	698800.00	4352000.00	.000114
698800.00	4352100.00	.000118	698800.00	4352200.00	.000115
698800.00	4352300.00	.000097	698800.00	4352400.00	.000076
698800.00	4352500.00	.000058	698800.00	4352600.00	.000048
698800.00	4352700.00	.000040	698800.00	4352800.00	.000032
698800.00	4352900.00	.000027	698800.00	4353000.00	.000025
698800.00	4353100.00	.000022	698800.00	4353200.00	.000020
698800.00	4353300.00	.000018	698900.00	4351300.00	.000026
698900.00	4351400.00	.000031	698900.00	4351500.00	.000037
698900.00	4351600.00	.000044	698900.00	4351700.00	.000056
698900.00	4351800.00	.000082	698900.00	4351900.00	.000115
698900.00	4352000.00	.000151	698900.00	4352100.00	.000160
698900.00	4352200.00	.000156	698900.00	4352300.00	.000127
698900.00	4352400.00	.000093	698900.00	4352500.00	.000071
698900.00	4352600.00	.000056	698900.00	4352700.00	.000044
698900.00	4352800.00	.000037	698900.00	4352900.00	.000032
698900.00	4353000.00	.000028	698900.00	4353100.00	.000025
698900.00	4353200.00	.000022	698900.00	4353300.00	.000020
699000.00	4351300.00	.000028	699000.00	4351400.00	.000033
699000.00	4351500.00	.000040	699000.00	4351600.00	.000049
699000.00	4351700.00	.000061	699000.00	4351800.00	.000083
699000.00	4351900.00	.000131	699000.00	4352000.00	.000196
699000.00	4352100.00	.000229	699000.00	4352200.00	.000225
699000.00	4352300.00	.000173	699000.00	4352400.00	.000116
699000.00	4352500.00	.000088	699000.00	4352600.00	.000065
699000.00	4352700.00	.000051	699000.00	4352800.00	.000044
699000.00	4352900.00	.000037	699000.00	4353000.00	.000032
699000.00	4353100.00	.000027	699000.00	4353200.00	.000024
699000.00	4353300.00	.000021	699100.00	4351300.00	.000029
699100.00	4351400.00	.000035	699100.00	4351500.00	.000043
699100.00	4351600.00	.000054	699100.00	4351700.00	.000070
699100.00	4351800.00	.000093	699100.00	4351900.00	.000139
699100.00	4352000.00	.000246	699100.00	4352100.00	.000355
699100.00	4352200.00	.000357	699100.00	4352300.00	.000247
699100.00	4352400.00	.000158	699100.00	4352500.00	.000107

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000079	699100.00	4352700.00	.000064
699100.00	4352800.00	.000052	699100.00	4352900.00	.000043
699100.00	4353000.00	.000036	699100.00	4353100.00	.000031
699100.00	4353200.00	.000027	699100.00	4353300.00	.000024
699200.00	4351300.00	.000031	699200.00	4351400.00	.000037
699200.00	4351500.00	.000046	699200.00	4351600.00	.000058
699200.00	4351700.00	.000078	699200.00	4351800.00	.000110
699200.00	4351900.00	.000161	699200.00	4352000.00	.000284
699200.00	4352100.00	.000612	699200.00	4352200.00	.000670
699200.00	4352300.00	.000369	699200.00	4352400.00	.000214
699200.00	4352500.00	.000141	699200.00	4352600.00	.000104
699200.00	4352700.00	.000078	699200.00	4352800.00	.000061
699200.00	4352900.00	.000051	699200.00	4353000.00	.000043
699200.00	4353100.00	.000036	699200.00	4353200.00	.000031
699200.00	4353300.00	.000027	699300.00	4351300.00	.000032
699300.00	4351400.00	.000039	699300.00	4351500.00	.000049
699300.00	4351600.00	.000064	699300.00	4351700.00	.000086
699300.00	4351800.00	.000123	699300.00	4351900.00	.000194
699300.00	4352000.00	.000356	699300.00	4352100.00	.000939
699300.00	4352200.00	.001802	699300.00	4352300.00	.000684
699300.00	4352400.00	.000330	699300.00	4352500.00	.000198
699300.00	4352600.00	.000136	699300.00	4352700.00	.000101
699300.00	4352800.00	.000077	699300.00	4352900.00	.000061
699300.00	4353000.00	.000050	699300.00	4353100.00	.000041
699300.00	4353200.00	.000035	699300.00	4353300.00	.000030
699400.00	4351300.00	.000032	699400.00	4351400.00	.000040
699400.00	4351500.00	.000050	699400.00	4351600.00	.000066
699400.00	4351700.00	.000091	699400.00	4351800.00	.000135
699400.00	4351900.00	.000224	699400.00	4352000.00	.000456
699400.00	4352100.00	.001417	699400.00	4352200.00	.018332
699400.00	4352300.00	.001632	699400.00	4352400.00	.000593
699400.00	4352500.00	.000300	699400.00	4352600.00	.000184
699400.00	4352700.00	.000125	699400.00	4352800.00	.000091
699400.00	4352900.00	.000070	699400.00	4353000.00	.000055
699400.00	4353100.00	.000045	699400.00	4353200.00	.000038
699400.00	4353300.00	.000032	699500.00	4351300.00	.000036
699500.00	4351400.00	.000045	699500.00	4351500.00	.000057
699500.00	4351600.00	.000076	699500.00	4351700.00	.000108
699500.00	4351800.00	.000165	699500.00	4351900.00	.000287
699500.00	4352000.00	.000625	699500.00	4352100.00	.002418

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.018258	699500.00	4352300.00	.004572
699500.00	4352400.00	.001084	699500.00	4352500.00	.000469
699500.00	4352600.00	.000262	699500.00	4352700.00	.000168
699500.00	4352800.00	.000117	699500.00	4352900.00	.000087
699500.00	4353000.00	.000067	699500.00	4353100.00	.000054
699500.00	4353200.00	.000044	699500.00	4353300.00	.000037
699600.00	4351300.00	.000041	699600.00	4351400.00	.000051
699600.00	4351500.00	.000066	699600.00	4351600.00	.000088
699600.00	4351700.00	.000125	699600.00	4351800.00	.000189
699600.00	4351900.00	.000342	699600.00	4352000.00	.000717
699600.00	4352100.00	.001711	699600.00	4352200.00	.003099
699600.00	4352300.00	.002459	699600.00	4352400.00	.001187
699600.00	4352500.00	.000574	699600.00	4352600.00	.000318
699600.00	4352700.00	.000205	699600.00	4352800.00	.000142
699600.00	4352900.00	.000104	699600.00	4353000.00	.000080
699600.00	4353100.00	.000064	699600.00	4353200.00	.000052
699600.00	4353300.00	.000043	699700.00	4351300.00	.000044
699700.00	4351400.00	.000055	699700.00	4351500.00	.000070
699700.00	4351600.00	.000094	699700.00	4351700.00	.000138
699700.00	4351800.00	.000213	699700.00	4351900.00	.000345
699700.00	4352000.00	.000592	699700.00	4352100.00	.000976
699700.00	4352200.00	.001288	699700.00	4352300.00	.001228
699700.00	4352400.00	.000868	699700.00	4352500.00	.000552
699700.00	4352600.00	.000345	699700.00	4352700.00	.000227
699700.00	4352800.00	.000156	699700.00	4352900.00	.000115
699700.00	4353000.00	.000089	699700.00	4353100.00	.000071
699700.00	4353200.00	.000057	699700.00	4353300.00	.000048
699800.00	4351300.00	.000046	699800.00	4351400.00	.000058
699800.00	4351500.00	.000076	699800.00	4351600.00	.000103
699800.00	4351700.00	.000144	699800.00	4351800.00	.000206
699800.00	4351900.00	.000305	699800.00	4352000.00	.000447
699800.00	4352100.00	.000611	699800.00	4352200.00	.000720
699800.00	4352300.00	.000718	699800.00	4352400.00	.000599
699800.00	4352500.00	.000451	699800.00	4352600.00	.000324
699800.00	4352700.00	.000229	699800.00	4352800.00	.000166
699800.00	4352900.00	.000124	699800.00	4353000.00	.000095
699800.00	4353100.00	.000075	699800.00	4353200.00	.000061
699800.00	4353300.00	.000052	699900.00	4351300.00	.000050
699900.00	4351400.00	.000062	699900.00	4351500.00	.000080
699900.00	4351600.00	.000104	699900.00	4351700.00	.000138

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000187	699900.00	4351900.00	.000255
699900.00	4352000.00	.000336	699900.00	4352100.00	.000416
699900.00	4352200.00	.000465	699900.00	4352300.00	.000471
699900.00	4352400.00	.000427	699900.00	4352500.00	.000351
699900.00	4352600.00	.000279	699900.00	4352700.00	.000215
699900.00	4352800.00	.000164	699900.00	4352900.00	.000127
699900.00	4353000.00	.000100	699900.00	4353100.00	.000080
699900.00	4353200.00	.000065	699900.00	4353300.00	.000054
700000.00	4351300.00	.000052	700000.00	4351400.00	.000064
700000.00	4351500.00	.000080	700000.00	4351600.00	.000100
700000.00	4351700.00	.000128	700000.00	4351800.00	.000165
700000.00	4351900.00	.000210	700000.00	4352000.00	.000258
700000.00	4352100.00	.000302	700000.00	4352200.00	.000327
700000.00	4352300.00	.000334	700000.00	4352400.00	.000315
700000.00	4352500.00	.000276	700000.00	4352600.00	.000232
700000.00	4352700.00	.000191	700000.00	4352800.00	.000155
700000.00	4352900.00	.000124	700000.00	4353000.00	.000100
700000.00	4353100.00	.000082	700000.00	4353200.00	.000068
700000.00	4353300.00	.000057	700100.00	4351300.00	.000053
700100.00	4351400.00	.000063	700100.00	4351500.00	.000077
700100.00	4351600.00	.000095	700100.00	4351700.00	.000117
700100.00	4351800.00	.000144	700100.00	4351900.00	.000173
700100.00	4352000.00	.000204	700100.00	4352100.00	.000229
700100.00	4352200.00	.000244	700100.00	4352300.00	.000249
700100.00	4352400.00	.000240	700100.00	4352500.00	.000221
700100.00	4352600.00	.000193	700100.00	4352700.00	.000166
700100.00	4352800.00	.000141	700100.00	4352900.00	.000118
700100.00	4353000.00	.000098	700100.00	4353100.00	.000082
700100.00	4353200.00	.000069	700100.00	4353300.00	.000059
700200.00	4351300.00	.000052	700200.00	4351400.00	.000061
700200.00	4351500.00	.000073	700200.00	4351600.00	.000088
700200.00	4351700.00	.000105	700200.00	4351800.00	.000125
700200.00	4351900.00	.000146	700200.00	4352000.00	.000165
700200.00	4352100.00	.000181	700200.00	4352200.00	.000191
700200.00	4352300.00	.000195	700200.00	4352400.00	.000191
700200.00	4352500.00	.000180	700200.00	4352600.00	.000163
700200.00	4352700.00	.000144	700200.00	4352800.00	.000126
700200.00	4352900.00	.000109	700200.00	4353000.00	.000094
700200.00	4353100.00	.000080	700200.00	4353200.00	.000069
700200.00	4353300.00	.000059	700300.00	4351300.00	.000051

** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 4C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000059	700300.00	4351500.00	.000069
700300.00	4351600.00	.000081	700300.00	4351700.00	.000094
700300.00	4351800.00	.000109	700300.00	4351900.00	.000124
700300.00	4352000.00	.000137	700300.00	4352100.00	.000148
700300.00	4352200.00	.000154	700300.00	4352300.00	.000157
700300.00	4352400.00	.000155	700300.00	4352500.00	.000149
700300.00	4352600.00	.000138	700300.00	4352700.00	.000125
700300.00	4352800.00	.000112	700300.00	4352900.00	.000099
700300.00	4353000.00	.000088	700300.00	4353100.00	.000077
700300.00	4353200.00	.000067	700300.00	4353300.00	.000058
700400.00	4351300.00	.000049	700400.00	4351400.00	.000057
700400.00	4351500.00	.000065	700400.00	4351600.00	.000075
700400.00	4351700.00	.000085	700400.00	4351800.00	.000096
700400.00	4351900.00	.000106	700400.00	4352000.00	.000116
700400.00	4352100.00	.000123	700400.00	4352200.00	.000128
700400.00	4352300.00	.000130	700400.00	4352400.00	.000129
700400.00	4352500.00	.000125	700400.00	4352600.00	.000119
700400.00	4352700.00	.000110	700400.00	4352800.00	.000100
700400.00	4352900.00	.000090	700400.00	4353000.00	.000081
700400.00	4353100.00	.000073	700400.00	4353200.00	.000065
700400.00	4353300.00	.000057			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 7A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.002235	698400.00	4351400.00	.002692
698400.00	4351500.00	.003217	698400.00	4351600.00	.003814
698400.00	4351700.00	.004476	698400.00	4351800.00	.004909
698400.00	4351900.00	.005072	698400.00	4352000.00	.005144
698400.00	4352100.00	.005111	698400.00	4352200.00	.004884
698400.00	4352300.00	.004386	698400.00	4352400.00	.003838
698400.00	4352500.00	.003267	698400.00	4352600.00	.002706
698400.00	4352700.00	.002436	698400.00	4352800.00	.002174
698400.00	4352900.00	.001928	698400.00	4353000.00	.001704
698400.00	4353100.00	.001501	698400.00	4353200.00	.001321
698400.00	4353300.00	.001245	698500.00	4351300.00	.002207
698500.00	4351400.00	.002730	698500.00	4351500.00	.003349
698500.00	4351600.00	.004068	698500.00	4351700.00	.004888
698500.00	4351800.00	.005704	698500.00	4351900.00	.005979
698500.00	4352000.00	.006121	698500.00	4352100.00	.006096
698500.00	4352200.00	.005794	698500.00	4352300.00	.005133
698500.00	4352400.00	.004396	698500.00	4352500.00	.003631
698500.00	4352600.00	.003052	698500.00	4352700.00	.002701
698500.00	4352800.00	.002371	698500.00	4352900.00	.002069
698500.00	4353000.00	.001799	698500.00	4353100.00	.001561
698500.00	4353200.00	.001462	698500.00	4353300.00	.001366
698600.00	4351300.00	.002232	698600.00	4351400.00	.002702
698600.00	4351500.00	.003426	698600.00	4351600.00	.004300
698600.00	4351700.00	.005352	698600.00	4351800.00	.006556
698600.00	4351900.00	.007200	698600.00	4352000.00	.007442
698600.00	4352100.00	.007436	698600.00	4352200.00	.007026
698600.00	4352300.00	.006112	698600.00	4352400.00	.005094
698600.00	4352500.00	.004052	698600.00	4352600.00	.003479
698600.00	4352700.00	.003006	698600.00	4352800.00	.002577
698600.00	4352900.00	.002205	698600.00	4353000.00	.001881
698600.00	4353100.00	.001747	698600.00	4353200.00	.001618
698600.00	4353300.00	.001495	698700.00	4351300.00	.002423
698700.00	4351400.00	.002741	698700.00	4351500.00	.003412
698700.00	4351600.00	.004498	698700.00	4351700.00	.005832
698700.00	4351800.00	.007424	698700.00	4351900.00	.008838
698700.00	4352000.00	.009262	698700.00	4352100.00	.009307
698700.00	4352200.00	.008730	698700.00	4352300.00	.007411
698700.00	4352400.00	.005948	698700.00	4352500.00	.004678
698700.00	4352600.00	.003990	698700.00	4352700.00	.003353
698700.00	4352800.00	.002793	698700.00	4352900.00	.002321

** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 7A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.002133	698700.00	4353100.00	.001953
698700.00	4353200.00	.001785	698700.00	4353300.00	.001631
698800.00	4351300.00	.002613	698800.00	4351400.00	.003011
698800.00	4351500.00	.003499	698800.00	4351600.00	.004542
698800.00	4351700.00	.006232	698800.00	4351800.00	.008362
698800.00	4351900.00	.010930	698800.00	4352000.00	.011913
698800.00	4352100.00	.012105	698800.00	4352200.00	.011256
698800.00	4352300.00	.009234	698800.00	4352400.00	.006997
698800.00	4352500.00	.005565	698800.00	4352600.00	.004577
698800.00	4352700.00	.003712	698800.00	4352800.00	.002988
698800.00	4352900.00	.002691	698800.00	4353000.00	.002416
698800.00	4353100.00	.002176	698800.00	4353200.00	.001961
698800.00	4353300.00	.001770	698900.00	4351300.00	.002789
698900.00	4351400.00	.003295	698900.00	4351500.00	.003921
698900.00	4351600.00	.004689	698900.00	4351700.00	.006388
698900.00	4351800.00	.009277	698900.00	4351900.00	.013026
698900.00	4352000.00	.015939	698900.00	4352100.00	.016502
698900.00	4352200.00	.015183	698900.00	4352300.00	.011838
698900.00	4352400.00	.008386	698900.00	4352500.00	.006707
698900.00	4352600.00	.005225	698900.00	4352700.00	.004031
698900.00	4352800.00	.003557	698900.00	4352900.00	.003120
698900.00	4353000.00	.002731	698900.00	4353100.00	.002408
698900.00	4353200.00	.002139	698900.00	4353300.00	.001909
699000.00	4351300.00	.002943	699000.00	4351400.00	.003547
699000.00	4351500.00	.004329	699000.00	4351600.00	.005348
699000.00	4351700.00	.006685	699000.00	4351800.00	.009800
699000.00	4351900.00	.015358	699000.00	4352000.00	.022358
699000.00	4352100.00	.023963	699000.00	4352200.00	.021745
699000.00	4352300.00	.015610	699000.00	4352400.00	.010857
699000.00	4352500.00	.008055	699000.00	4352600.00	.005835
699000.00	4352700.00	.004970	699000.00	4352800.00	.004215
699000.00	4352900.00	.003583	699000.00	4353000.00	.003062
699000.00	4353100.00	.002641	699000.00	4353200.00	.002312
699000.00	4353300.00	.002096	699100.00	4351300.00	.003089
699100.00	4351400.00	.003722	699100.00	4351500.00	.004657
699100.00	4351600.00	.005969	699100.00	4351700.00	.007832
699100.00	4351800.00	.010454	699100.00	4351900.00	.017134
699100.00	4352000.00	.030033	699100.00	4352100.00	.038226
699100.00	4352200.00	.034066	699100.00	4352300.00	.020956
699100.00	4352400.00	.014198	699100.00	4352500.00	.009360

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 7A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.007572	699100.00	4352700.00	.006083
699100.00	4352800.00	.004921	699100.00	4352900.00	.004050
699100.00	4353000.00	.003424	699100.00	4353100.00	.003002
699100.00	4353200.00	.002660	699100.00	4353300.00	.002375
699200.00	4351300.00	.003301	699200.00	4351400.00	.004019
699200.00	4351500.00	.005000	699200.00	4351600.00	.006404
699200.00	4351700.00	.008781	699200.00	4351800.00	.012642
699200.00	4351900.00	.018962	699200.00	4352000.00	.038180
699200.00	4352100.00	.071577	699200.00	4352200.00	.062323
699200.00	4352300.00	.032108	699200.00	4352400.00	.017838
699200.00	4352500.00	.013096	699200.00	4352600.00	.009615
699200.00	4352700.00	.007232	699200.00	4352800.00	.005832
699200.00	4352900.00	.004847	699200.00	4353000.00	.004082
699200.00	4353100.00	.003478	699200.00	4353200.00	.003008
699200.00	4353300.00	.002643	699300.00	4351300.00	.003432
699300.00	4351400.00	.004232	699300.00	4351500.00	.005369
699300.00	4351600.00	.007083	699300.00	4351700.00	.009787
699300.00	4351800.00	.014385	699300.00	4351900.00	.023746
699300.00	4352000.00	.046848	699300.00	4352100.00	.155815
699300.00	4352200.00	.153407	699300.00	4352300.00	.050299
699300.00	4352400.00	.028632	699300.00	4352500.00	.017605
699300.00	4352600.00	.012625	699300.00	4352700.00	.009379
699300.00	4352800.00	.007221	699300.00	4352900.00	.005739
699300.00	4353000.00	.004693	699300.00	4353100.00	.003915
699300.00	4353200.00	.003327	699300.00	4353300.00	.002888
699400.00	4351300.00	.003460	699400.00	4351400.00	.004286
699400.00	4351500.00	.005480	699400.00	4351600.00	.007318
699400.00	4351700.00	.010334	699400.00	4351800.00	.015839
699400.00	4351900.00	.027843	699400.00	4352000.00	.063868
699400.00	4352100.00	.282926	699400.00	4352200.00	.756663
699400.00	4352300.00	.121034	699400.00	4352400.00	.047593
699400.00	4352500.00	.025648	699400.00	4352600.00	.016276
699400.00	4352700.00	.011324	699400.00	4352800.00	.008376
699400.00	4352900.00	.006482	699400.00	4353000.00	.005202
699400.00	4353100.00	.004279	699400.00	4353200.00	.003600
699400.00	4353300.00	.003098	699500.00	4351300.00	.003907
699500.00	4351400.00	.004901	699500.00	4351500.00	.006369
699500.00	4351600.00	.008683	699500.00	4351700.00	.012594
699500.00	4351800.00	.020015	699500.00	4351900.00	.036924
699500.00	4352000.00	.089611	699500.00	4352100.00	.464573

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 7A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	1.333036	699500.00	4352300.00	.257873
699500.00	4352400.00	.080581	699500.00	4352500.00	.038818
699500.00	4352600.00	.022870	699500.00	4352700.00	.015106
699500.00	4352800.00	.010753	699500.00	4352900.00	.008077
699500.00	4353000.00	.006333	699500.00	4353100.00	.005112
699500.00	4353200.00	.004232	699500.00	4353300.00	.003593
699600.00	4351300.00	.004421	699600.00	4351400.00	.005575
699600.00	4351500.00	.007264	699600.00	4351600.00	.009916
699600.00	4351700.00	.014299	699600.00	4351800.00	.023024
699600.00	4351900.00	.043563	699600.00	4352000.00	.092950
699600.00	4352100.00	.208592	699600.00	4352200.00	.287490
699600.00	4352300.00	.186538	699600.00	4352400.00	.090676
699600.00	4352500.00	.046813	699600.00	4352600.00	.027301
699600.00	4352700.00	.018152	699600.00	4352800.00	.012881
699600.00	4352900.00	.009618	699600.00	4353000.00	.007478
699600.00	4353100.00	.005986	699600.00	4353200.00	.004915
699600.00	4353300.00	.004142	699700.00	4351300.00	.004746
699700.00	4351400.00	.005952	699700.00	4351500.00	.007670
699700.00	4351600.00	.010780	699700.00	4351700.00	.016023
699700.00	4351800.00	.024934	699700.00	4351900.00	.040588
699700.00	4352000.00	.068868	699700.00	4352100.00	.105494
699700.00	4352200.00	.124116	699700.00	4352300.00	.106411
699700.00	4352400.00	.073165	699700.00	4352500.00	.046475
699700.00	4352600.00	.029813	699700.00	4352700.00	.020023
699700.00	4352800.00	.014035	699700.00	4352900.00	.010544
699700.00	4353000.00	.008241	699700.00	4353100.00	.006609
699700.00	4353200.00	.005441	699700.00	4353300.00	.004579
699800.00	4351300.00	.004938	699800.00	4351400.00	.006402
699800.00	4351500.00	.008480	699800.00	4351600.00	.011535
699800.00	4351700.00	.016153	699800.00	4351800.00	.023144
699800.00	4351900.00	.034222	699800.00	4352000.00	.048723
699800.00	4352100.00	.063279	699800.00	4352200.00	.070281
699800.00	4352300.00	.066170	699800.00	4352400.00	.053161
699800.00	4352500.00	.039804	699800.00	4352600.00	.028542
699800.00	4352700.00	.020450	699800.00	4352800.00	.015024
699800.00	4352900.00	.011356	699800.00	4353000.00	.008778
699800.00	4353100.00	.006990	699800.00	4353200.00	.005807
699800.00	4353300.00	.004900	699900.00	4351300.00	.005374
699900.00	4351400.00	.006800	699900.00	4351500.00	.008735
699900.00	4351600.00	.011393	699900.00	4351700.00	.015104

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 7A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.020591	699900.00	4351900.00	.027555
699900.00	4352000.00	.035493	699900.00	4352100.00	.042343
699900.00	4352200.00	.045713	699900.00	4352300.00	.044582
699900.00	4352400.00	.039164	699900.00	4352500.00	.031917
699900.00	4352600.00	.025285	699900.00	4352700.00	.019459
699900.00	4352800.00	.014968	699900.00	4352900.00	.011682
699900.00	4353000.00	.009256	699900.00	4353100.00	.007463
699900.00	4353200.00	.006139	699900.00	4353300.00	.005114
700000.00	4351300.00	.005563	700000.00	4351400.00	.006867
700000.00	4351500.00	.008577	700000.00	4351600.00	.010805
700000.00	4351700.00	.013869	700000.00	4351800.00	.017690
700000.00	4351900.00	.022152	700000.00	4352000.00	.026780
700000.00	4352100.00	.030439	700000.00	4352200.00	.032316
700000.00	4352300.00	.032059	700000.00	4352400.00	.029650
700000.00	4352500.00	.025577	700000.00	4352600.00	.021394
700000.00	4352700.00	.017693	700000.00	4352800.00	.014306
700000.00	4352900.00	.011501	700000.00	4353000.00	.009332
700000.00	4353100.00	.007700	700000.00	4353200.00	.006427
700000.00	4353300.00	.005418	700100.00	4351300.00	.005587
700100.00	4351400.00	.006728	700100.00	4351500.00	.008184
700100.00	4351600.00	.010126	700100.00	4351700.00	.012454
700100.00	4351800.00	.015139	700100.00	4351900.00	.018055
700100.00	4352000.00	.020864	700100.00	4352100.00	.023017
700100.00	4352200.00	.024172	700100.00	4352300.00	.024197
700100.00	4352400.00	.022980	700100.00	4352500.00	.020782
700100.00	4352600.00	.018120	700100.00	4352700.00	.015539
700100.00	4352800.00	.013205	700100.00	4352900.00	.011018
700100.00	4353000.00	.009184	700100.00	4353100.00	.007719
700100.00	4353200.00	.006535	700100.00	4353300.00	.005575
700200.00	4351300.00	.005490	700200.00	4351400.00	.006488
700200.00	4351500.00	.007767	700200.00	4351600.00	.009303
700200.00	4351700.00	.011070	700200.00	4351800.00	.013015
700200.00	4351900.00	.015019	700200.00	4352000.00	.016814
700200.00	4352100.00	.018165	700200.00	4352200.00	.018932
700200.00	4352300.00	.019046	700200.00	4352400.00	.018417
700200.00	4352500.00	.017195	700200.00	4352600.00	.015414
700200.00	4352700.00	.013590	700200.00	4352800.00	.011856
700200.00	4352900.00	.010334	700200.00	4353000.00	.008880
700200.00	4353100.00	.007585	700200.00	4353200.00	.006510
700200.00	4353300.00	.005618	700300.00	4351300.00	.005313

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 7A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.006227	700300.00	4351500.00	.007282
700300.00	4351600.00	.008477	700300.00	4351700.00	.009816
700300.00	4351800.00	.011251	700300.00	4351900.00	.012657
700300.00	4352000.00	.013878	700300.00	4352100.00	.014789
700300.00	4352200.00	.015324	700300.00	4352300.00	.015456
700300.00	4352400.00	.015102	700300.00	4352500.00	.014358
700300.00	4352600.00	.013206	700300.00	4352700.00	.011900
700300.00	4352800.00	.010650	700300.00	4352900.00	.009476
700300.00	4353000.00	.008403	700300.00	4353100.00	.007349
700300.00	4353200.00	.006388	700300.00	4353300.00	.005574
700400.00	4351300.00	.005127	700400.00	4351400.00	.005903
700400.00	4351500.00	.006773	700400.00	4351600.00	.007732
700400.00	4351700.00	.008762	700400.00	4351800.00	.009818
700400.00	4351900.00	.010802	700400.00	4352000.00	.011664
700400.00	4352100.00	.012305	700400.00	4352200.00	.012695
700400.00	4352300.00	.012822	700400.00	4352400.00	.012619
700400.00	4352500.00	.012157	700400.00	4352600.00	.011460
700400.00	4352700.00	.010529	700400.00	4352800.00	.009580
700400.00	4352900.00	.008658	700400.00	4353000.00	.007792
700400.00	4353100.00	.006994	700400.00	4353200.00	.006202
700400.00	4353300.00	.005468			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13B ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000031	698400.00	4351400.00	.000038
698400.00	4351500.00	.000050	698400.00	4351600.00	.000064
698400.00	4351700.00	.000082	698400.00	4351800.00	.000099
698400.00	4351900.00	.000104	698400.00	4352000.00	.000105
698400.00	4352100.00	.000100	698400.00	4352200.00	.000086
698400.00	4352300.00	.000070	698400.00	4352400.00	.000054
698400.00	4352500.00	.000046	698400.00	4352600.00	.000039
698400.00	4352700.00	.000033	698400.00	4352800.00	.000027
698400.00	4352900.00	.000025	698400.00	4353000.00	.000022
698400.00	4353100.00	.000021	698400.00	4353200.00	.000019
698400.00	4353300.00	.000017	698500.00	4351300.00	.000034
698500.00	4351400.00	.000039	698500.00	4351500.00	.000050
698500.00	4351600.00	.000068	698500.00	4351700.00	.000092
698500.00	4351800.00	.000120	698500.00	4351900.00	.000133
698500.00	4352000.00	.000137	698500.00	4352100.00	.000129
698500.00	4352200.00	.000107	698500.00	4352300.00	.000083
698500.00	4352400.00	.000065	698500.00	4352500.00	.000053
698500.00	4352600.00	.000043	698500.00	4352700.00	.000035
698500.00	4352800.00	.000031	698500.00	4352900.00	.000028
698500.00	4353000.00	.000025	698500.00	4353100.00	.000023
698500.00	4353200.00	.000020	698500.00	4353300.00	.000019
698600.00	4351300.00	.000037	698600.00	4351400.00	.000044
698600.00	4351500.00	.000052	698600.00	4351600.00	.000070
698600.00	4351700.00	.000101	698600.00	4351800.00	.000142
698600.00	4351900.00	.000177	698600.00	4352000.00	.000185
698600.00	4352100.00	.000175	698600.00	4352200.00	.000139
698600.00	4352300.00	.000098	698600.00	4352400.00	.000078
698600.00	4352500.00	.000061	698600.00	4352600.00	.000048
698600.00	4352700.00	.000041	698600.00	4352800.00	.000036
698600.00	4352900.00	.000032	698600.00	4353000.00	.000028
698600.00	4353100.00	.000025	698600.00	4353200.00	.000022
698600.00	4353300.00	.000020	698700.00	4351300.00	.000039
698700.00	4351400.00	.000048	698700.00	4351500.00	.000059
698700.00	4351600.00	.000074	698700.00	4351700.00	.000106
698700.00	4351800.00	.000165	698700.00	4351900.00	.000245
698700.00	4352000.00	.000267	698700.00	4352100.00	.000251
698700.00	4352200.00	.000185	698700.00	4352300.00	.000127
698700.00	4352400.00	.000095	698700.00	4352500.00	.000069
698700.00	4352600.00	.000057	698700.00	4352700.00	.000049
698700.00	4352800.00	.000042	698700.00	4352900.00	.000036

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13B ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000031	698700.00	4353100.00	.000027
698700.00	4353200.00	.000024	698700.00	4353300.00	.000022
698800.00	4351300.00	.000041	698800.00	4351400.00	.000052
698800.00	4351500.00	.000066	698800.00	4351600.00	.000086
698800.00	4351700.00	.000114	698800.00	4351800.00	.000181
698800.00	4351900.00	.000317	698800.00	4352000.00	.000421
698800.00	4352100.00	.000395	698800.00	4352200.00	.000255
698800.00	4352300.00	.000168	698800.00	4352400.00	.000112
698800.00	4352500.00	.000088	698800.00	4352600.00	.000071
698800.00	4352700.00	.000057	698800.00	4352800.00	.000047
698800.00	4352900.00	.000039	698800.00	4353000.00	.000035
698800.00	4353100.00	.000031	698800.00	4353200.00	.000027
698800.00	4353300.00	.000025	698900.00	4351300.00	.000045
698900.00	4351400.00	.000055	698900.00	4351500.00	.000070
698900.00	4351600.00	.000096	698900.00	4351700.00	.000137
698900.00	4351800.00	.000203	698900.00	4351900.00	.000389
698900.00	4352000.00	.000768	698900.00	4352100.00	.000729
698900.00	4352200.00	.000382	698900.00	4352300.00	.000219
698900.00	4352400.00	.000153	698900.00	4352500.00	.000113
698900.00	4352600.00	.000085	698900.00	4352700.00	.000067
698900.00	4352800.00	.000056	698900.00	4352900.00	.000047
698900.00	4353000.00	.000040	698900.00	4353100.00	.000035
698900.00	4353200.00	.000031	698900.00	4353300.00	.000027
699000.00	4351300.00	.000047	699000.00	4351400.00	.000059
699000.00	4351500.00	.000078	699000.00	4351600.00	.000107
699000.00	4351700.00	.000155	699000.00	4351800.00	.000250
699000.00	4351900.00	.000477	699000.00	4352000.00	.001449
699000.00	4352100.00	.001872	699000.00	4352200.00	.000647
699000.00	4352300.00	.000343	699000.00	4352400.00	.000208
699000.00	4352500.00	.000148	699000.00	4352600.00	.000110
699000.00	4352700.00	.000084	699000.00	4352800.00	.000067
699000.00	4352900.00	.000055	699000.00	4353000.00	.000046
699000.00	4353100.00	.000039	699000.00	4353200.00	.000034
699000.00	4353300.00	.000029	699100.00	4351300.00	.000048
699100.00	4351400.00	.000061	699100.00	4351500.00	.000081
699100.00	4351600.00	.000113	699100.00	4351700.00	.000171
699100.00	4351800.00	.000292	699100.00	4351900.00	.000636
699100.00	4352000.00	.002375	699100.00	4352100.00	.012132
699100.00	4352200.00	.001516	699100.00	4352300.00	.000585
699100.00	4352400.00	.000310	699100.00	4352500.00	.000194

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13B ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000134	699100.00	4352700.00	.000099
699100.00	4352800.00	.000076	699100.00	4352900.00	.000061
699100.00	4353000.00	.000050	699100.00	4353100.00	.000042
699100.00	4353200.00	.000036	699100.00	4353300.00	.000031
699200.00	4351300.00	.000054	699200.00	4351400.00	.000070
699200.00	4351500.00	.000094	699200.00	4351600.00	.000135
699200.00	4351700.00	.000212	699200.00	4351800.00	.000381
699200.00	4351900.00	.000887	699200.00	4352000.00	.004197
699200.00	4352100.00	.019629	699200.00	4352200.00	.003597
699200.00	4352300.00	.001020	699200.00	4352400.00	.000473
699200.00	4352500.00	.000273	699200.00	4352600.00	.000179
699200.00	4352700.00	.000126	699200.00	4352800.00	.000094
699200.00	4352900.00	.000074	699200.00	4353000.00	.000059
699200.00	4353100.00	.000049	699200.00	4353200.00	.000042
699200.00	4353300.00	.000036	699300.00	4351300.00	.000062
699300.00	4351400.00	.000080	699300.00	4351500.00	.000108
699300.00	4351600.00	.000155	699300.00	4351700.00	.000241
699300.00	4351800.00	.000454	699300.00	4351900.00	.000971
699300.00	4352000.00	.002279	699300.00	4352100.00	.003529
699300.00	4352200.00	.002413	699300.00	4352300.00	.001151
699300.00	4352400.00	.000577	699300.00	4352500.00	.000330
699300.00	4352600.00	.000217	699300.00	4352700.00	.000153
699300.00	4352800.00	.000113	699300.00	4352900.00	.000088
699300.00	4353000.00	.000070	699300.00	4353100.00	.000057
699300.00	4353200.00	.000048	699300.00	4353300.00	.000041
699400.00	4351300.00	.000066	699400.00	4351400.00	.000085
699400.00	4351500.00	.000117	699400.00	4351600.00	.000173
699400.00	4351700.00	.000269	699400.00	4351800.00	.000439
699400.00	4351900.00	.000753	699400.00	4352000.00	.001197
699400.00	4352100.00	.001475	699400.00	4352200.00	.001311
699400.00	4352300.00	.000902	699400.00	4352400.00	.000570
699400.00	4352500.00	.000361	699400.00	4352600.00	.000240
699400.00	4352700.00	.000167	699400.00	4352800.00	.000125
699400.00	4352900.00	.000097	699400.00	4353000.00	.000077
699400.00	4353100.00	.000064	699400.00	4353200.00	.000053
699400.00	4353300.00	.000045	699500.00	4351300.00	.000070
699500.00	4351400.00	.000093	699500.00	4351500.00	.000127
699500.00	4351600.00	.000177	699500.00	4351700.00	.000254
699500.00	4351800.00	.000377	699500.00	4351900.00	.000546
699500.00	4352000.00	.000726	699500.00	4352100.00	.000825

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13B ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.000792	699500.00	4352300.00	.000643
699500.00	4352400.00	.000481	699500.00	4352500.00	.000344
699500.00	4352600.00	.000245	699500.00	4352700.00	.000179
699500.00	4352800.00	.000134	699500.00	4352900.00	.000103
699500.00	4353000.00	.000082	699500.00	4353100.00	.000068
699500.00	4353200.00	.000057	699500.00	4353300.00	.000049
699600.00	4351300.00	.000075	699600.00	4351400.00	.000097
699600.00	4351500.00	.000126	699600.00	4351600.00	.000167
699600.00	4351700.00	.000229	699600.00	4351800.00	.000308
699600.00	4351900.00	.000402	699600.00	4352000.00	.000487
699600.00	4352100.00	.000533	699600.00	4352200.00	.000527
699600.00	4352300.00	.000468	699600.00	4352400.00	.000382
699600.00	4352500.00	.000302	699600.00	4352600.00	.000232
699600.00	4352700.00	.000178	699600.00	4352800.00	.000138
699600.00	4352900.00	.000109	699600.00	4353000.00	.000088
699600.00	4353100.00	.000072	699600.00	4353200.00	.000060
699600.00	4353300.00	.000051	699700.00	4351300.00	.000077
699700.00	4351400.00	.000096	699700.00	4351500.00	.000121
699700.00	4351600.00	.000155	699700.00	4351700.00	.000198
699700.00	4351800.00	.000250	699700.00	4351900.00	.000305
699700.00	4352000.00	.000351	699700.00	4352100.00	.000376
699700.00	4352200.00	.000376	699700.00	4352300.00	.000350
699700.00	4352400.00	.000303	699700.00	4352500.00	.000254
699700.00	4352600.00	.000210	699700.00	4352700.00	.000169
699700.00	4352800.00	.000136	699700.00	4352900.00	.000110
699700.00	4353000.00	.000090	699700.00	4353100.00	.000075
699700.00	4353200.00	.000063	699700.00	4353300.00	.000054
699800.00	4351300.00	.000075	699800.00	4351400.00	.000092
699800.00	4351500.00	.000113	699800.00	4351600.00	.000140
699800.00	4351700.00	.000171	699800.00	4351800.00	.000205
699800.00	4351900.00	.000238	699800.00	4352000.00	.000265
699800.00	4352100.00	.000280	699800.00	4352200.00	.000283
699800.00	4352300.00	.000270	699800.00	4352400.00	.000245
699800.00	4352500.00	.000214	699800.00	4352600.00	.000183
699800.00	4352700.00	.000156	699800.00	4352800.00	.000130
699800.00	4352900.00	.000108	699800.00	4353000.00	.000090
699800.00	4353100.00	.000076	699800.00	4353200.00	.000065
699800.00	4353300.00	.000056	699900.00	4351300.00	.000073
699900.00	4351400.00	.000087	699900.00	4351500.00	.000105
699900.00	4351600.00	.000125	699900.00	4351700.00	.000147

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13B ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000171	699900.00	4351900.00	.000193
699900.00	4352000.00	.000209	699900.00	4352100.00	.000219
699900.00	4352200.00	.000222	699900.00	4352300.00	.000215
699900.00	4352400.00	.000202	699900.00	4352500.00	.000181
699900.00	4352600.00	.000160	699900.00	4352700.00	.000139
699900.00	4352800.00	.000121	699900.00	4352900.00	.000104
699900.00	4353000.00	.000089	699900.00	4353100.00	.000076
699900.00	4353200.00	.000066	699900.00	4353300.00	.000057
700000.00	4351300.00	.000070	700000.00	4351400.00	.000082
700000.00	4351500.00	.000096	700000.00	4351600.00	.000111
700000.00	4351700.00	.000128	700000.00	4351800.00	.000144
700000.00	4351900.00	.000159	700000.00	4352000.00	.000170
700000.00	4352100.00	.000177	700000.00	4352200.00	.000179
700000.00	4352300.00	.000176	700000.00	4352400.00	.000168
700000.00	4352500.00	.000155	700000.00	4352600.00	.000139
700000.00	4352700.00	.000125	700000.00	4352800.00	.000111
700000.00	4352900.00	.000098	700000.00	4353000.00	.000086
700000.00	4353100.00	.000075	700000.00	4353200.00	.000065
700000.00	4353300.00	.000057	700100.00	4351300.00	.000067
700100.00	4351400.00	.000077	700100.00	4351500.00	.000088
700100.00	4351600.00	.000099	700100.00	4351700.00	.000112
700100.00	4351800.00	.000123	700100.00	4351900.00	.000134
700100.00	4352000.00	.000142	700100.00	4352100.00	.000147
700100.00	4352200.00	.000149	700100.00	4352300.00	.000147
700100.00	4352400.00	.000141	700100.00	4352500.00	.000134
700100.00	4352600.00	.000123	700100.00	4352700.00	.000112
700100.00	4352800.00	.000101	700100.00	4352900.00	.000091
700100.00	4353000.00	.000082	700100.00	4353100.00	.000072
700100.00	4353200.00	.000064	700100.00	4353300.00	.000056
700200.00	4351300.00	.000063	700200.00	4351400.00	.000071
700200.00	4351500.00	.000080	700200.00	4351600.00	.000089
700200.00	4351700.00	.000099	700200.00	4351800.00	.000107
700200.00	4351900.00	.000115	700200.00	4352000.00	.000120
700200.00	4352100.00	.000124	700200.00	4352200.00	.000126
700200.00	4352300.00	.000125	700200.00	4352400.00	.000122
700200.00	4352500.00	.000117	700200.00	4352600.00	.000109
700200.00	4352700.00	.000101	700200.00	4352800.00	.000092
700200.00	4352900.00	.000084	700200.00	4353000.00	.000076
700200.00	4353100.00	.000069	700200.00	4353200.00	.000062
700200.00	4353300.00	.000055	700300.00	4351300.00	.000059

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13B ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000066	700300.00	4351500.00	.000073
700300.00	4351600.00	.000081	700300.00	4351700.00	.000088
700300.00	4351800.00	.000094	700300.00	4351900.00	.000100
700300.00	4352000.00	.000104	700300.00	4352100.00	.000107
700300.00	4352200.00	.000109	700300.00	4352300.00	.000108
700300.00	4352400.00	.000106	700300.00	4352500.00	.000102
700300.00	4352600.00	.000097	700300.00	4352700.00	.000091
700300.00	4352800.00	.000084	700300.00	4352900.00	.000077
700300.00	4353000.00	.000071	700300.00	4353100.00	.000065
700300.00	4353200.00	.000059	700300.00	4353300.00	.000054
700400.00	4351300.00	.000055	700400.00	4351400.00	.000061
700400.00	4351500.00	.000067	700400.00	4351600.00	.000073
700400.00	4351700.00	.000079	700400.00	4351800.00	.000084
700400.00	4351900.00	.000088	700400.00	4352000.00	.000091
700400.00	4352100.00	.000094	700400.00	4352200.00	.000095
700400.00	4352300.00	.000095	700400.00	4352400.00	.000093
700400.00	4352500.00	.000091	700400.00	4352600.00	.000087
700400.00	4352700.00	.000082	700400.00	4352800.00	.000077
700400.00	4352900.00	.000071	700400.00	4353000.00	.000066
700400.00	4353100.00	.000061	700400.00	4353200.00	.000056
700400.00	4353300.00	.000052			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000287	698400.00	4351400.00	.000375
698400.00	4351500.00	.000493	698400.00	4351600.00	.000636
698400.00	4351700.00	.000805	698400.00	4351800.00	.000908
698400.00	4351900.00	.000939	698400.00	4352000.00	.000929
698400.00	4352100.00	.000836	698400.00	4352200.00	.000696
698400.00	4352300.00	.000547	698400.00	4352400.00	.000446
698400.00	4352500.00	.000378	698400.00	4352600.00	.000316
698400.00	4352700.00	.000263	698400.00	4352800.00	.000226
698400.00	4352900.00	.000208	698400.00	4353000.00	.000190
698400.00	4353100.00	.000174	698400.00	4353200.00	.000159
698400.00	4353300.00	.000145	698500.00	4351300.00	.000318
698500.00	4351400.00	.000370	698500.00	4351500.00	.000507
698500.00	4351600.00	.000692	698500.00	4351700.00	.000923
698500.00	4351800.00	.001152	698500.00	4351900.00	.001216
698500.00	4352000.00	.001210	698500.00	4352100.00	.001070
698500.00	4352200.00	.000854	698500.00	4352300.00	.000630
698500.00	4352400.00	.000524	698500.00	4352500.00	.000428
698500.00	4352600.00	.000346	698500.00	4352700.00	.000290
698500.00	4352800.00	.000260	698500.00	4352900.00	.000234
698500.00	4353000.00	.000211	698500.00	4353100.00	.000190
698500.00	4353200.00	.000171	698500.00	4353300.00	.000155
698600.00	4351300.00	.000350	698600.00	4351400.00	.000418
698600.00	4351500.00	.000501	698600.00	4351600.00	.000728
698600.00	4351700.00	.001049	698600.00	4351800.00	.001457
698600.00	4351900.00	.001644	698600.00	4352000.00	.001653
698600.00	4352100.00	.001425	698600.00	4352200.00	.001068
698600.00	4352300.00	.000786	698600.00	4352400.00	.000621
698600.00	4352500.00	.000480	698600.00	4352600.00	.000389
698600.00	4352700.00	.000342	698600.00	4352800.00	.000299
698600.00	4352900.00	.000262	698600.00	4353000.00	.000232
698600.00	4353100.00	.000206	698600.00	4353200.00	.000184
698600.00	4353300.00	.000165	698700.00	4351300.00	.000380
698700.00	4351400.00	.000466	698700.00	4351500.00	.000579
698700.00	4351600.00	.000726	698700.00	4351700.00	.001150
698700.00	4351800.00	.001778	698700.00	4351900.00	.002346
698700.00	4352000.00	.002413	698700.00	4352100.00	.002002
698700.00	4352200.00	.001349	698700.00	4352300.00	.000992
698700.00	4352400.00	.000726	698700.00	4352500.00	.000557
698700.00	4352600.00	.000472	698700.00	4352700.00	.000401
698700.00	4352800.00	.000341	698700.00	4352900.00	.000292

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000253	698700.00	4353100.00	.000224
698700.00	4353200.00	.000204	698700.00	4353300.00	.000186
698800.00	4351300.00	.000401	698800.00	4351400.00	.000506
698800.00	4351500.00	.000655	698800.00	4351600.00	.000867
698800.00	4351700.00	.001163	698800.00	4351800.00	.002102
698800.00	4351900.00	.003590	698800.00	4352000.00	.003896
698800.00	4352100.00	.003025	698800.00	4352200.00	.001841
698800.00	4352300.00	.001244	698800.00	4352400.00	.000879
698800.00	4352500.00	.000708	698800.00	4352600.00	.000568
698800.00	4352700.00	.000462	698800.00	4352800.00	.000381
698800.00	4352900.00	.000329	698800.00	4353000.00	.000289
698800.00	4353100.00	.000257	698800.00	4353200.00	.000229
698800.00	4353300.00	.000206	698900.00	4351300.00	.000433
698900.00	4351400.00	.000544	698900.00	4351500.00	.000708
698900.00	4351600.00	.000992	698900.00	4351700.00	.001454
698900.00	4351800.00	.002210	698900.00	4351900.00	.005079
698900.00	4352000.00	.007544	698900.00	4352100.00	.005101
698900.00	4352200.00	.002684	698900.00	4352300.00	.001628
698900.00	4352400.00	.001187	698900.00	4352500.00	.000875
698900.00	4352600.00	.000669	698900.00	4352700.00	.000550
698900.00	4352800.00	.000459	698900.00	4352900.00	.000388
698900.00	4353000.00	.000332	698900.00	4353100.00	.000288
698900.00	4353200.00	.000254	698900.00	4353300.00	.000226
699000.00	4351300.00	.000458	699000.00	4351400.00	.000588
699000.00	4351500.00	.000788	699000.00	4351600.00	.001111
699000.00	4351700.00	.001679	699000.00	4351800.00	.002964
699000.00	4351900.00	.006166	699000.00	4352000.00	.021245
699000.00	4352100.00	.010189	699000.00	4352200.00	.004236
699000.00	4352300.00	.002410	699000.00	4352400.00	.001587
699000.00	4352500.00	.001146	699000.00	4352600.00	.000860
699000.00	4352700.00	.000669	699000.00	4352800.00	.000537
699000.00	4352900.00	.000442	699000.00	4353000.00	.000371
699000.00	4353100.00	.000317	699000.00	4353200.00	.000277
699000.00	4353300.00	.000243	699100.00	4351300.00	.000464
699100.00	4351400.00	.000601	699100.00	4351500.00	.000817
699100.00	4351600.00	.001182	699100.00	4351700.00	.001881
699100.00	4351800.00	.003556	699100.00	4351900.00	.009534
699100.00	4352000.00	.079462	699100.00	4352100.00	.034047
699100.00	4352200.00	.008533	699100.00	4352300.00	.003800
699100.00	4352400.00	.002183	699100.00	4352500.00	.001434

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.001020	699100.00	4352700.00	.000767
699100.00	4352800.00	.000601	699100.00	4352900.00	.000487
699100.00	4353000.00	.000403	699100.00	4353100.00	.000342
699100.00	4353200.00	.000296	699100.00	4353300.00	.000259
699200.00	4351300.00	.000536	699200.00	4351400.00	.000708
699200.00	4351500.00	.000983	699200.00	4351600.00	.001466
699200.00	4351700.00	.002429	699200.00	4351800.00	.004824
699200.00	4351900.00	.014612	699200.00	4352000.00	.088561
699200.00	4352100.00	.078317	699200.00	4352200.00	.016086
699200.00	4352300.00	.006147	699200.00	4352400.00	.003219
699200.00	4352500.00	.001983	699200.00	4352600.00	.001347
699200.00	4352700.00	.000977	699200.00	4352800.00	.000746
699200.00	4352900.00	.000591	699200.00	4353000.00	.000481
699200.00	4353100.00	.000401	699200.00	4353200.00	.000343
699200.00	4353300.00	.000297	699300.00	4351300.00	.000609
699300.00	4351400.00	.000805	699300.00	4351500.00	.001118
699300.00	4351600.00	.001647	699300.00	4351700.00	.002839
699300.00	4351800.00	.005557	699300.00	4351900.00	.012327
699300.00	4352000.00	.024653	699300.00	4352100.00	.025958
699300.00	4352200.00	.014685	699300.00	4352300.00	.007136
699300.00	4352400.00	.003857	699300.00	4352500.00	.002363
699300.00	4352600.00	.001611	699300.00	4352700.00	.001164
699300.00	4352800.00	.000883	699300.00	4352900.00	.000694
699300.00	4353000.00	.000560	699300.00	4353100.00	.000465
699300.00	4353200.00	.000394	699300.00	4353300.00	.000338
699400.00	4351300.00	.000647	699400.00	4351400.00	.000853
699400.00	4351500.00	.001232	699400.00	4351600.00	.001855
699400.00	4351700.00	.002924	699400.00	4351800.00	.004853
699400.00	4351900.00	.008000	699400.00	4352000.00	.011317
699400.00	4352100.00	.011975	699400.00	4352200.00	.009352
699400.00	4352300.00	.006298	699400.00	4352400.00	.003969
699400.00	4352500.00	.002593	699400.00	4352600.00	.001771
699400.00	4352700.00	.001264	699400.00	4352800.00	.000968
699400.00	4352900.00	.000764	699400.00	4353000.00	.000618
699400.00	4353100.00	.000513	699400.00	4353200.00	.000434
699400.00	4353300.00	.000373	699500.00	4351300.00	.000704
699500.00	4351400.00	.000939	699500.00	4351500.00	.001290
699500.00	4351600.00	.001818	699500.00	4351700.00	.002639
699500.00	4351800.00	.003854	699500.00	4351900.00	.005346
699500.00	4352000.00	.006581	699500.00	4352100.00	.006921

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.006170	699500.00	4352300.00	.004798
699500.00	4352400.00	.003567	699500.00	4352500.00	.002537
699500.00	4352600.00	.001835	699500.00	4352700.00	.001364
699500.00	4352800.00	.001040	699500.00	4352900.00	.000810
699500.00	4353000.00	.000656	699500.00	4353100.00	.000548
699500.00	4353200.00	.000465	699500.00	4353300.00	.000399
699600.00	4351300.00	.000740	699600.00	4351400.00	.000954
699600.00	4351500.00	.001249	699600.00	4351600.00	.001675
699600.00	4351700.00	.002269	699600.00	4351800.00	.002997
699600.00	4351900.00	.003773	699600.00	4352000.00	.004343
699600.00	4352100.00	.004539	699600.00	4352200.00	.004274
699600.00	4352300.00	.003641	699600.00	4352400.00	.002937
699600.00	4352500.00	.002319	699600.00	4352600.00	.001774
699600.00	4352700.00	.001373	699600.00	4352800.00	.001078
699600.00	4352900.00	.000859	699600.00	4353000.00	.000698
699600.00	4353100.00	.000577	699600.00	4353200.00	.000485
699600.00	4353300.00	.000418	699700.00	4351300.00	.000739
699700.00	4351400.00	.000926	699700.00	4351500.00	.001174
699700.00	4351600.00	.001502	699700.00	4351700.00	.001905
699700.00	4351800.00	.002358	699700.00	4351900.00	.002795
699700.00	4352000.00	.003099	699700.00	4352100.00	.003221
699700.00	4352200.00	.003116	699700.00	4352300.00	.002814
699700.00	4352400.00	.002398	699700.00	4352500.00	.001998
699700.00	4352600.00	.001650	699700.00	4352700.00	.001325
699700.00	4352800.00	.001069	699700.00	4352900.00	.000872
699700.00	4353000.00	.000724	699700.00	4353100.00	.000606
699700.00	4353200.00	.000513	699700.00	4353300.00	.000438
699800.00	4351300.00	.000717	699800.00	4351400.00	.000879
699800.00	4351500.00	.001085	699800.00	4351600.00	.001328
699800.00	4351700.00	.001603	699800.00	4351800.00	.001893
699800.00	4351900.00	.002154	699800.00	4352000.00	.002333
699800.00	4352100.00	.002415	699800.00	4352200.00	.002372
699800.00	4352300.00	.002222	699800.00	4352400.00	.001977
699800.00	4352500.00	.001714	699800.00	4352600.00	.001466
699800.00	4352700.00	.001245	699800.00	4352800.00	.001033
699800.00	4352900.00	.000865	699800.00	4353000.00	.000729
699800.00	4353100.00	.000619	699800.00	4353200.00	.000529
699800.00	4353300.00	.000456	699900.00	4351300.00	.000689
699900.00	4351400.00	.000824	699900.00	4351500.00	.000985
699900.00	4351600.00	.001167	699900.00	4351700.00	.001364

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.001558	699900.00	4351900.00	.001723
699900.00	4352000.00	.001836	699900.00	4352100.00	.001894
699900.00	4352200.00	.001878	699900.00	4352300.00	.001795
699900.00	4352400.00	.001652	699900.00	4352500.00	.001472
699900.00	4352600.00	.001294	699900.00	4352700.00	.001128
699900.00	4352800.00	.000984	699900.00	4352900.00	.000840
699900.00	4353000.00	.000719	699900.00	4353100.00	.000619
699900.00	4353200.00	.000535	699900.00	4353300.00	.000465
700000.00	4351300.00	.000656	700000.00	4351400.00	.000766
700000.00	4351500.00	.000889	700000.00	4351600.00	.001026
700000.00	4351700.00	.001169	700000.00	4351800.00	.001303
700000.00	4351900.00	.001415	700000.00	4352000.00	.001492
700000.00	4352100.00	.001534	700000.00	4352200.00	.001530
700000.00	4352300.00	.001480	700000.00	4352400.00	.001396
700000.00	4352500.00	.001271	700000.00	4352600.00	.001143
700000.00	4352700.00	.001021	700000.00	4352800.00	.000908
700000.00	4352900.00	.000805	700000.00	4353000.00	.000700
700000.00	4353100.00	.000609	700000.00	4353200.00	.000532
700000.00	4353300.00	.000467	700100.00	4351300.00	.000618
700100.00	4351400.00	.000707	700100.00	4351500.00	.000805
700100.00	4351600.00	.000909	700100.00	4351700.00	.001012
700100.00	4351800.00	.001106	700100.00	4351900.00	.001185
700100.00	4352000.00	.001240	700100.00	4352100.00	.001271
700100.00	4352200.00	.001272	700100.00	4352300.00	.001242
700100.00	4352400.00	.001190	700100.00	4352500.00	.001111
700100.00	4352600.00	.001017	700100.00	4352700.00	.000923
700100.00	4352800.00	.000834	700100.00	4352900.00	.000750
700100.00	4353000.00	.000673	700100.00	4353100.00	.000593
700100.00	4353200.00	.000524	700100.00	4353300.00	.000464
700200.00	4351300.00	.000578	700200.00	4351400.00	.000651
700200.00	4351500.00	.000730	700200.00	4351600.00	.000811
700200.00	4351700.00	.000888	700200.00	4351800.00	.000957
700200.00	4351900.00	.001014	700200.00	4352000.00	.001054
700200.00	4352100.00	.001078	700200.00	4352200.00	.001082
700200.00	4352300.00	.001065	700200.00	4352400.00	.001030
700200.00	4352500.00	.000979	700200.00	4352600.00	.000908
700200.00	4352700.00	.000836	700200.00	4352800.00	.000764
700200.00	4352900.00	.000696	700200.00	4353000.00	.000632
700200.00	4353100.00	.000573	700200.00	4353200.00	.000511
700200.00	4353300.00	.000456	700300.00	4351300.00	.000539

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13C ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000599	700300.00	4351500.00	.000663
700300.00	4351600.00	.000726	700300.00	4351700.00	.000785
700300.00	4351800.00	.000838	700300.00	4351900.00	.000881
700300.00	4352000.00	.000912	700300.00	4352100.00	.000931
700300.00	4352200.00	.000936	700300.00	4352300.00	.000925
700300.00	4352400.00	.000901	700300.00	4352500.00	.000866
700300.00	4352600.00	.000815	700300.00	4352700.00	.000758
700300.00	4352800.00	.000700	700300.00	4352900.00	.000644
700300.00	4353000.00	.000591	700300.00	4353100.00	.000541
700300.00	4353200.00	.000494	700300.00	4353300.00	.000445
700400.00	4351300.00	.000501	700400.00	4351400.00	.000552
700400.00	4351500.00	.000604	700400.00	4351600.00	.000653
700400.00	4351700.00	.000700	700400.00	4351800.00	.000740
700400.00	4351900.00	.000774	700400.00	4352000.00	.000798
700400.00	4352100.00	.000814	700400.00	4352200.00	.000819
700400.00	4352300.00	.000812	700400.00	4352400.00	.000795
700400.00	4352500.00	.000769	700400.00	4352600.00	.000734
700400.00	4352700.00	.000689	700400.00	4352800.00	.000642
700400.00	4352900.00	.000596	700400.00	4353000.00	.000552
700400.00	4353100.00	.000509	700400.00	4353200.00	.000469
700400.00	4353300.00	.000432			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000078	698400.00	4351400.00	.000100
698400.00	4351500.00	.000131	698400.00	4351600.00	.000170
698400.00	4351700.00	.000215	698400.00	4351800.00	.000249
698400.00	4351900.00	.000259	698400.00	4352000.00	.000258
698400.00	4352100.00	.000237	698400.00	4352200.00	.000199
698400.00	4352300.00	.000157	698400.00	4352400.00	.000126
698400.00	4352500.00	.000107	698400.00	4352600.00	.000090
698400.00	4352700.00	.000075	698400.00	4352800.00	.000063
698400.00	4352900.00	.000058	698400.00	4353000.00	.000053
698400.00	4353100.00	.000049	698400.00	4353200.00	.000044
698400.00	4353300.00	.000041	698500.00	4351300.00	.000086
698500.00	4351400.00	.000100	698500.00	4351500.00	.000134
698500.00	4351600.00	.000183	698500.00	4351700.00	.000245
698500.00	4351800.00	.000314	698500.00	4351900.00	.000334
698500.00	4352000.00	.000336	698500.00	4352100.00	.000304
698500.00	4352200.00	.000245	698500.00	4352300.00	.000183
698500.00	4352400.00	.000149	698500.00	4352500.00	.000122
698500.00	4352600.00	.000099	698500.00	4352700.00	.000081
698500.00	4352800.00	.000073	698500.00	4352900.00	.000066
698500.00	4353000.00	.000059	698500.00	4353100.00	.000053
698500.00	4353200.00	.000048	698500.00	4353300.00	.000044
698600.00	4351300.00	.000094	698600.00	4351400.00	.000113
698600.00	4351500.00	.000135	698600.00	4351600.00	.000190
698600.00	4351700.00	.000276	698600.00	4351800.00	.000385
698600.00	4351900.00	.000450	698600.00	4352000.00	.000459
698600.00	4352100.00	.000407	698600.00	4352200.00	.000310
698600.00	4352300.00	.000224	698600.00	4352400.00	.000178
698600.00	4352500.00	.000138	698600.00	4352600.00	.000109
698600.00	4352700.00	.000097	698600.00	4352800.00	.000085
698600.00	4352900.00	.000074	698600.00	4353000.00	.000065
698600.00	4353100.00	.000058	698600.00	4353200.00	.000052
698600.00	4353300.00	.000047	698700.00	4351300.00	.000102
698700.00	4351400.00	.000125	698700.00	4351500.00	.000155
698700.00	4351600.00	.000194	698700.00	4351700.00	.000297
698700.00	4351800.00	.000462	698700.00	4351900.00	.000638
698700.00	4352000.00	.000669	698700.00	4352100.00	.000577
698700.00	4352200.00	.000400	698700.00	4352300.00	.000287
698700.00	4352400.00	.000211	698700.00	4352500.00	.000157
698700.00	4352600.00	.000134	698700.00	4352700.00	.000114
698700.00	4352800.00	.000097	698700.00	4352900.00	.000083

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000071	698700.00	4353100.00	.000063
698700.00	4353200.00	.000057	698700.00	4353300.00	.000052
698800.00	4351300.00	.000108	698800.00	4351400.00	.000135
698800.00	4351500.00	.000174	698800.00	4351600.00	.000230
698800.00	4351700.00	.000308	698800.00	4351800.00	.000533
698800.00	4351900.00	.000921	698800.00	4352000.00	.001076
698800.00	4352100.00	.000889	698800.00	4352200.00	.000535
698800.00	4352300.00	.000366	698800.00	4352400.00	.000250
698800.00	4352500.00	.000202	698800.00	4352600.00	.000162
698800.00	4352700.00	.000132	698800.00	4352800.00	.000109
698800.00	4352900.00	.000093	698800.00	4353000.00	.000081
698800.00	4353100.00	.000072	698800.00	4353200.00	.000065
698800.00	4353300.00	.000058	698900.00	4351300.00	.000116
698900.00	4351400.00	.000145	698900.00	4351500.00	.000187
698900.00	4351600.00	.000260	698900.00	4351700.00	.000379
698900.00	4351800.00	.000573	698900.00	4351900.00	.001244
698900.00	4352000.00	.002060	698900.00	4352100.00	.001562
698900.00	4352200.00	.000808	698900.00	4352300.00	.000470
698900.00	4352400.00	.000344	698900.00	4352500.00	.000253
698900.00	4352600.00	.000191	698900.00	4352700.00	.000157
698900.00	4352800.00	.000130	698900.00	4352900.00	.000110
698900.00	4353000.00	.000094	698900.00	4353100.00	.000081
698900.00	4353200.00	.000072	698900.00	4353300.00	.000064
699000.00	4351300.00	.000122	699000.00	4351400.00	.000157
699000.00	4351500.00	.000208	699000.00	4351600.00	.000291
699000.00	4351700.00	.000434	699000.00	4351800.00	.000743
699000.00	4351900.00	.001513	699000.00	4352000.00	.005523
699000.00	4352100.00	.003328	699000.00	4352200.00	.001268
699000.00	4352300.00	.000721	699000.00	4352400.00	.000461
699000.00	4352500.00	.000332	699000.00	4352600.00	.000248
699000.00	4352700.00	.000192	699000.00	4352800.00	.000153
699000.00	4352900.00	.000126	699000.00	4353000.00	.000105
699000.00	4353100.00	.000090	699000.00	4353200.00	.000078
699000.00	4353300.00	.000069	699100.00	4351300.00	.000124
699100.00	4351400.00	.000160	699100.00	4351500.00	.000215
699100.00	4351600.00	.000308	699100.00	4351700.00	.000482
699100.00	4351800.00	.000881	699100.00	4351900.00	.002192
699100.00	4352000.00	.013298	699100.00	4352100.00	.013395
699100.00	4352200.00	.002748	699100.00	4352300.00	.001161
699100.00	4352400.00	.000649	699100.00	4352500.00	.000420

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000296	699100.00	4352700.00	.000221
699100.00	4352800.00	.000172	699100.00	4352900.00	.000139
699100.00	4353000.00	.000115	699100.00	4353100.00	.000097
699100.00	4353200.00	.000084	699100.00	4353300.00	.000073
699200.00	4351300.00	.000143	699200.00	4351400.00	.000187
699200.00	4351500.00	.000258	699200.00	4351600.00	.000380
699200.00	4351700.00	.000617	699200.00	4351800.00	.001184
699200.00	4351900.00	.003233	699200.00	4352000.00	.018802
699200.00	4352100.00	.027706	699200.00	4352200.00	.005439
699200.00	4352300.00	.001912	699200.00	4352400.00	.000967
699200.00	4352500.00	.000585	699200.00	4352600.00	.000393
699200.00	4352700.00	.000283	699200.00	4352800.00	.000214
699200.00	4352900.00	.000169	699200.00	4353000.00	.000137
699200.00	4353100.00	.000114	699200.00	4353200.00	.000097
699200.00	4353300.00	.000084	699300.00	4351300.00	.000162
699300.00	4351400.00	.000213	699300.00	4351500.00	.000294
699300.00	4351600.00	.000428	699300.00	4351700.00	.000717
699300.00	4351800.00	.001381	699300.00	4351900.00	.003019
699300.00	4352000.00	.006402	699300.00	4352100.00	.007574
699300.00	4352200.00	.004516	699300.00	4352300.00	.002191
699300.00	4352400.00	.001163	699300.00	4352500.00	.000697
699300.00	4352600.00	.000470	699300.00	4352700.00	.000337
699300.00	4352800.00	.000254	699300.00	4352900.00	.000199
699300.00	4353000.00	.000160	699300.00	4353100.00	.000132
699300.00	4353200.00	.000112	699300.00	4353300.00	.000096
699400.00	4351300.00	.000173	699400.00	4351400.00	.000224
699400.00	4351500.00	.000322	699400.00	4351600.00	.000482
699400.00	4351700.00	.000755	699400.00	4351800.00	.001243
699400.00	4351900.00	.002077	699400.00	4352000.00	.003049
699400.00	4352100.00	.003379	699400.00	4352200.00	.002743
699400.00	4352300.00	.001863	699400.00	4352400.00	.001178
699400.00	4352500.00	.000764	699400.00	4352600.00	.000518
699400.00	4352700.00	.000366	699400.00	4352800.00	.000279
699400.00	4352900.00	.000219	699400.00	4353000.00	.000176
699400.00	4353100.00	.000146	699400.00	4353200.00	.000123
699400.00	4353300.00	.000105	699500.00	4351300.00	.000187
699500.00	4351400.00	.000249	699500.00	4351500.00	.000340
699500.00	4351600.00	.000478	699500.00	4351700.00	.000690
699500.00	4351800.00	.001014	699500.00	4351900.00	.001422
699500.00	4352000.00	.001794	699500.00	4352100.00	.001933

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.001766	699500.00	4352300.00	.001390
699500.00	4352400.00	.001037	699500.00	4352500.00	.000740
699500.00	4352600.00	.000533	699500.00	4352700.00	.000394
699500.00	4352800.00	.000300	699500.00	4352900.00	.000233
699500.00	4353000.00	.000187	699500.00	4353100.00	.000156
699500.00	4353200.00	.000132	699500.00	4353300.00	.000113
699600.00	4351300.00	.000197	699600.00	4351400.00	.000254
699600.00	4351500.00	.000332	699600.00	4351600.00	.000443
699600.00	4351700.00	.000602	699600.00	4351800.00	.000800
699600.00	4351900.00	.001018	699600.00	4352000.00	.001191
699600.00	4352100.00	.001262	699600.00	4352200.00	.001207
699600.00	4352300.00	.001042	699600.00	4352400.00	.000844
699600.00	4352500.00	.000667	699600.00	4352600.00	.000512
699600.00	4352700.00	.000395	699600.00	4352800.00	.000309
699600.00	4352900.00	.000246	699600.00	4353000.00	.000199
699600.00	4353100.00	.000164	699600.00	4353200.00	.000138
699600.00	4353300.00	.000118	699700.00	4351300.00	.000198
699700.00	4351400.00	.000248	699700.00	4351500.00	.000314
699700.00	4351600.00	.000402	699700.00	4351700.00	.000511
699700.00	4351800.00	.000636	699700.00	4351900.00	.000760
699700.00	4352000.00	.000852	699700.00	4352100.00	.000894
699700.00	4352200.00	.000874	699700.00	4352300.00	.000798
699700.00	4352400.00	.000683	699700.00	4352500.00	.000570
699700.00	4352600.00	.000471	699700.00	4352700.00	.000380
699700.00	4352800.00	.000306	699700.00	4352900.00	.000249
699700.00	4353000.00	.000206	699700.00	4353100.00	.000172
699700.00	4353200.00	.000146	699700.00	4353300.00	.000124
699800.00	4351300.00	.000193	699800.00	4351400.00	.000236
699800.00	4351500.00	.000292	699800.00	4351600.00	.000358
699800.00	4351700.00	.000433	699800.00	4351800.00	.000514
699800.00	4351900.00	.000588	699800.00	4352000.00	.000643
699800.00	4352100.00	.000669	699800.00	4352200.00	.000663
699800.00	4352300.00	.000625	699800.00	4352400.00	.000560
699800.00	4352500.00	.000487	699800.00	4352600.00	.000417
699800.00	4352700.00	.000354	699800.00	4352800.00	.000294
699800.00	4352900.00	.000246	699800.00	4353000.00	.000207
699800.00	4353100.00	.000176	699800.00	4353200.00	.000150
699800.00	4353300.00	.000129	699900.00	4351300.00	.000186
699900.00	4351400.00	.000222	699900.00	4351500.00	.000266
699900.00	4351600.00	.000316	699900.00	4351700.00	.000370

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000425	699900.00	4351900.00	.000472
699900.00	4352000.00	.000506	699900.00	4352100.00	.000525
699900.00	4352200.00	.000524	699900.00	4352300.00	.000503
699900.00	4352400.00	.000466	699900.00	4352500.00	.000416
699900.00	4352600.00	.000366	699900.00	4352700.00	.000319
699900.00	4352800.00	.000279	699900.00	4352900.00	.000239
699900.00	4353000.00	.000204	699900.00	4353100.00	.000175
699900.00	4353200.00	.000151	699900.00	4353300.00	.000132
700000.00	4351300.00	.000178	700000.00	4351400.00	.000207
700000.00	4351500.00	.000241	700000.00	4351600.00	.000279
700000.00	4351700.00	.000318	700000.00	4351800.00	.000356
700000.00	4351900.00	.000389	700000.00	4352000.00	.000412
700000.00	4352100.00	.000425	700000.00	4352200.00	.000426
700000.00	4352300.00	.000414	700000.00	4352400.00	.000392
700000.00	4352500.00	.000358	700000.00	4352600.00	.000322
700000.00	4352700.00	.000288	700000.00	4352800.00	.000256
700000.00	4352900.00	.000227	700000.00	4353000.00	.000198
700000.00	4353100.00	.000172	700000.00	4353200.00	.000151
700000.00	4353300.00	.000132	700100.00	4351300.00	.000168
700100.00	4351400.00	.000192	700100.00	4351500.00	.000219
700100.00	4351600.00	.000248	700100.00	4351700.00	.000277
700100.00	4351800.00	.000303	700100.00	4351900.00	.000326
700100.00	4352000.00	.000342	700100.00	4352100.00	.000352
700100.00	4352200.00	.000354	700100.00	4352300.00	.000346
700100.00	4352400.00	.000333	700100.00	4352500.00	.000312
700100.00	4352600.00	.000286	700100.00	4352700.00	.000260
700100.00	4352800.00	.000235	700100.00	4352900.00	.000211
700100.00	4353000.00	.000190	700100.00	4353100.00	.000168
700100.00	4353200.00	.000148	700100.00	4353300.00	.000131
700200.00	4351300.00	.000157	700200.00	4351400.00	.000177
700200.00	4351500.00	.000199	700200.00	4351600.00	.000222
700200.00	4351700.00	.000243	700200.00	4351800.00	.000263
700200.00	4351900.00	.000279	700200.00	4352000.00	.000291
700200.00	4352100.00	.000299	700200.00	4352200.00	.000300
700200.00	4352300.00	.000297	700200.00	4352400.00	.000288
700200.00	4352500.00	.000274	700200.00	4352600.00	.000255
700200.00	4352700.00	.000235	700200.00	4352800.00	.000215
700200.00	4352900.00	.000196	700200.00	4353000.00	.000178
700200.00	4353100.00	.000161	700200.00	4353200.00	.000144
700200.00	4353300.00	.000129	700300.00	4351300.00	.000147

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 13D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000164	700300.00	4351500.00	.000181
700300.00	4351600.00	.000199	700300.00	4351700.00	.000215
700300.00	4351800.00	.000230	700300.00	4351900.00	.000243
700300.00	4352000.00	.000252	700300.00	4352100.00	.000258
700300.00	4352200.00	.000260	700300.00	4352300.00	.000257
700300.00	4352400.00	.000251	700300.00	4352500.00	.000242
700300.00	4352600.00	.000228	700300.00	4352700.00	.000213
700300.00	4352800.00	.000197	700300.00	4352900.00	.000181
700300.00	4353000.00	.000166	700300.00	4353100.00	.000152
700300.00	4353200.00	.000139	700300.00	4353300.00	.000125
700400.00	4351300.00	.000137	700400.00	4351400.00	.000151
700400.00	4351500.00	.000165	700400.00	4351600.00	.000179
700400.00	4351700.00	.000192	700400.00	4351800.00	.000204
700400.00	4351900.00	.000213	700400.00	4352000.00	.000221
700400.00	4352100.00	.000225	700400.00	4352200.00	.000227
700400.00	4352300.00	.000226	700400.00	4352400.00	.000221
700400.00	4352500.00	.000215	700400.00	4352600.00	.000205
700400.00	4352700.00	.000193	700400.00	4352800.00	.000180
700400.00	4352900.00	.000167	700400.00	4353000.00	.000155
700400.00	4353100.00	.000143	700400.00	4353200.00	.000132
700400.00	4353300.00	.000121			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 32A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000082	698400.00	4351400.00	.000089
698400.00	4351500.00	.000105	698400.00	4351600.00	.000122
698400.00	4351700.00	.000142	698400.00	4351800.00	.000164
698400.00	4351900.00	.000188	698400.00	4352000.00	.000215
698400.00	4352100.00	.000244	698400.00	4352200.00	.000259
698400.00	4352300.00	.000266	698400.00	4352400.00	.000270
698400.00	4352500.00	.000271	698400.00	4352600.00	.000268
698400.00	4352700.00	.000256	698400.00	4352800.00	.000235
698400.00	4352900.00	.000212	698400.00	4353000.00	.000188
698400.00	4353100.00	.000164	698400.00	4353200.00	.000141
698400.00	4353300.00	.000130	698500.00	4351300.00	.000086
698500.00	4351400.00	.000093	698500.00	4351500.00	.000102
698500.00	4351600.00	.000122	698500.00	4351700.00	.000144
698500.00	4351800.00	.000169	698500.00	4351900.00	.000197
698500.00	4352000.00	.000229	698500.00	4352100.00	.000263
698500.00	4352200.00	.000292	698500.00	4352300.00	.000302
698500.00	4352400.00	.000308	698500.00	4352500.00	.000310
698500.00	4352600.00	.000307	698500.00	4352700.00	.000292
698500.00	4352800.00	.000265	698500.00	4352900.00	.000237
698500.00	4353000.00	.000207	698500.00	4353100.00	.000176
698500.00	4353200.00	.000155	698500.00	4353300.00	.000141
698600.00	4351300.00	.000090	698600.00	4351400.00	.000098
698600.00	4351500.00	.000107	698600.00	4351600.00	.000119
698600.00	4351700.00	.000143	698600.00	4351800.00	.000172
698600.00	4351900.00	.000205	698600.00	4352000.00	.000242
698600.00	4352100.00	.000283	698600.00	4352200.00	.000329
698600.00	4352300.00	.000346	698600.00	4352400.00	.000356
698600.00	4352500.00	.000359	698600.00	4352600.00	.000355
698600.00	4352700.00	.000336	698600.00	4352800.00	.000303
698600.00	4352900.00	.000266	698600.00	4353000.00	.000228
698600.00	4353100.00	.000190	698600.00	4353200.00	.000171
698600.00	4353300.00	.000154	698700.00	4351300.00	.000095
698700.00	4351400.00	.000104	698700.00	4351500.00	.000114
698700.00	4351600.00	.000124	698700.00	4351700.00	.000140
698700.00	4351800.00	.000172	698700.00	4351900.00	.000210
698700.00	4352000.00	.000254	698700.00	4352100.00	.000304
698700.00	4352200.00	.000361	698700.00	4352300.00	.000401
698700.00	4352400.00	.000415	698700.00	4352500.00	.000422
698700.00	4352600.00	.000418	698700.00	4352700.00	.000394
698700.00	4352800.00	.000350	698700.00	4352900.00	.000301

*** MODELING OPTIONS USED: . CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 32A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000252	698700.00	4353100.00	.000213
698700.00	4353200.00	.000190	698700.00	4353300.00	.000168
698800.00	4351300.00	.000099	698800.00	4351400.00	.000109
698800.00	4351500.00	.000120	698800.00	4351600.00	.000133
698800.00	4351700.00	.000147	698800.00	4351800.00	.000168
698800.00	4351900.00	.000211	698800.00	4352000.00	.000263
698800.00	4352100.00	.000324	698800.00	4352200.00	.000396
698800.00	4352300.00	.000472	698800.00	4352400.00	.000497
698800.00	4352500.00	.000509	698800.00	4352600.00	.000505
698800.00	4352700.00	.000472	698800.00	4352800.00	.000412
698800.00	4352900.00	.000346	698800.00	4353000.00	.000279
698800.00	4353100.00	.000240	698800.00	4353200.00	.000210
698800.00	4353300.00	.000182	698900.00	4351300.00	.000103
698900.00	4351400.00	.000114	698900.00	4351500.00	.000127
698900.00	4351600.00	.000142	698900.00	4351700.00	.000159
698900.00	4351800.00	.000178	698900.00	4351900.00	.000207
698900.00	4352000.00	.000268	698900.00	4352100.00	.000344
698900.00	4352200.00	.000436	698900.00	4352300.00	.000542
698900.00	4352400.00	.000605	698900.00	4352500.00	.000627
698900.00	4352600.00	.000624	698900.00	4352700.00	.000578
698900.00	4352800.00	.000493	698900.00	4352900.00	.000400
698900.00	4353000.00	.000318	698900.00	4353100.00	.000274
698900.00	4353200.00	.000233	698900.00	4353300.00	.000197
699000.00	4351300.00	.000106	699000.00	4351400.00	.000118
699000.00	4351500.00	.000133	699000.00	4351600.00	.000150
699000.00	4351700.00	.000170	699000.00	4351800.00	.000193
699000.00	4351900.00	.000220	699000.00	4352000.00	.000263
699000.00	4352100.00	.000357	699000.00	4352200.00	.000474
699000.00	4352300.00	.000617	699000.00	4352400.00	.000754
699000.00	4352500.00	.000794	699000.00	4352600.00	.000795
699000.00	4352700.00	.000728	699000.00	4352800.00	.000602
699000.00	4352900.00	.000465	699000.00	4353000.00	.000375
699000.00	4353100.00	.000313	699000.00	4353200.00	.000258
699000.00	4353300.00	.000211	699100.00	4351300.00	.000108
699100.00	4351400.00	.000122	699100.00	4351500.00	.000138
699100.00	4351600.00	.000157	699100.00	4351700.00	.000180
699100.00	4351800.00	.000208	699100.00	4351900.00	.000243
699100.00	4352000.00	.000286	699100.00	4352100.00	.000353
699100.00	4352200.00	.000502	699100.00	4352300.00	.000697
699100.00	4352400.00	.000939	699100.00	4352500.00	.001046

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 32A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.001060	699100.00	4352700.00	.000956
699100.00	4352800.00	.000755	699100.00	4352900.00	.000546
699100.00	4353000.00	.000446	699100.00	4353100.00	.000356
699100.00	4353200.00	.000282	699100.00	4353300.00	.000241
699200.00	4351300.00	.000113	699200.00	4351400.00	.000126
699200.00	4351500.00	.000141	699200.00	4351600.00	.000162
699200.00	4351700.00	.000188	699200.00	4351800.00	.000221
699200.00	4351900.00	.000265	699200.00	4352000.00	.000320
699200.00	4352100.00	.000389	699200.00	4352200.00	.000503
699200.00	4352300.00	.000769	699200.00	4352400.00	.001129
699200.00	4352500.00	.001440	699200.00	4352600.00	.001492
699200.00	4352700.00	.001319	699200.00	4352800.00	.000970
699200.00	4352900.00	.000694	699200.00	4353000.00	.000533
699200.00	4353100.00	.000400	699200.00	4353200.00	.000330
699200.00	4353300.00	.000286	699300.00	4351300.00	.000117
699300.00	4351400.00	.000132	699300.00	4351500.00	.000149
699300.00	4351600.00	.000170	699300.00	4351700.00	.000195
699300.00	4351800.00	.000232	699300.00	4351900.00	.000283
699300.00	4352000.00	.000350	699300.00	4352100.00	.000443
699300.00	4352200.00	.000569	699300.00	4352300.00	.000786
699300.00	4352400.00	.001332	699300.00	4352500.00	.002102
699300.00	4352600.00	.002273	699300.00	4352700.00	.001949
699300.00	4352800.00	.001263	699300.00	4352900.00	.000893
699300.00	4353000.00	.000624	699300.00	4353100.00	.000489
699300.00	4353200.00	.000404	699300.00	4353300.00	.000335
699400.00	4351300.00	.000121	699400.00	4351400.00	.000136
699400.00	4351500.00	.000155	699400.00	4351600.00	.000178
699400.00	4351700.00	.000208	699400.00	4351800.00	.000247
699400.00	4351900.00	.000300	699400.00	4352000.00	.000371
699400.00	4352100.00	.000487	699400.00	4352200.00	.000659
699400.00	4352300.00	.000919	699400.00	4352400.00	.001427
699400.00	4352500.00	.002850	699400.00	4352600.00	.003933
699400.00	4352700.00	.003203	699400.00	4352800.00	.001810
699400.00	4352900.00	.001129	699400.00	4353000.00	.000808
699400.00	4353100.00	.000623	699400.00	4353200.00	.000484
699400.00	4353300.00	.000384	699500.00	4351300.00	.000123
699500.00	4351400.00	.000139	699500.00	4351500.00	.000159
699500.00	4351600.00	.000184	699500.00	4351700.00	.000217
699500.00	4351800.00	.000261	699500.00	4351900.00	.000321
699500.00	4352000.00	.000407	699500.00	4352100.00	.000533

* MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 32A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.000727	699500.00	4352300.00	.001085
699500.00	4352400.00	.001764	699500.00	4352500.00	.003515
699500.00	4352600.00	.008622	699500.00	4352700.00	.006303
699500.00	4352800.00	.002771	699500.00	4352900.00	.001625
699500.00	4353000.00	.001089	699500.00	4353100.00	.000771
699500.00	4353200.00	.000601	699500.00	4353300.00	.000478
699600.00	4351300.00	.000124	699600.00	4351400.00	.000140
699600.00	4351500.00	.000161	699600.00	4351600.00	.000186
699600.00	4351700.00	.000221	699600.00	4351800.00	.000268
699600.00	4351900.00	.000332	699600.00	4352000.00	.000427
699600.00	4352100.00	.000572	699600.00	4352200.00	.000810
699600.00	4352300.00	.001244	699600.00	4352400.00	.002170
699600.00	4352500.00	.004872	699600.00	4352600.00	.021993
699600.00	4352700.00	.017339	699600.00	4352800.00	.005148
699600.00	4352900.00	.002551	699600.00	4353000.00	.001553
699600.00	4353100.00	.001044	699600.00	4353200.00	.000751
699600.00	4353300.00	.000568	699700.00	4351300.00	.000127
699700.00	4351400.00	.000144	699700.00	4351500.00	.000165
699700.00	4351600.00	.000192	699700.00	4351700.00	.000229
699700.00	4351800.00	.000279	699700.00	4351900.00	.000348
699700.00	4352000.00	.000451	699700.00	4352100.00	.000612
699700.00	4352200.00	.000885	699700.00	4352300.00	.001406
699700.00	4352400.00	.002637	699700.00	4352500.00	.006953
699700.00	4352600.00	.051982	699700.00	4352700.00	.137528
699700.00	4352800.00	.012251	699700.00	4352900.00	.004257
699700.00	4353000.00	.002185	699700.00	4353100.00	.001348
699700.00	4353200.00	.000921	699700.00	4353300.00	.000673
699800.00	4351300.00	.000141	699800.00	4351400.00	.000162
699800.00	4351500.00	.000187	699800.00	4351600.00	.000220
699800.00	4351700.00	.000264	699800.00	4351800.00	.000326
699800.00	4351900.00	.000412	699800.00	4352000.00	.000541
699800.00	4352100.00	.000747	699800.00	4352200.00	.001097
699800.00	4352300.00	.001761	699800.00	4352400.00	.003412
699800.00	4352500.00	.008810	699800.00	4352600.00	.027102
699800.00	4352700.00	.036573	699800.00	4352800.00	.015312
699800.00	4352900.00	.005972	699800.00	4353000.00	.002988
699800.00	4353100.00	.001806	699800.00	4353200.00	.001205
699800.00	4353300.00	.000860	699900.00	4351300.00	.000154
699900.00	4351400.00	.000177	699900.00	4351500.00	.000205
699900.00	4351600.00	.000242	699900.00	4351700.00	.000290

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 32A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000358	699900.00	4351900.00	.000452
699900.00	4352000.00	.000590	699900.00	4352100.00	.000804
699900.00	4352200.00	.001222	699900.00	4352300.00	.002007
699900.00	4352400.00	.003527	699900.00	4352500.00	.006659
699900.00	4352600.00	.011298	699900.00	4352700.00	.013069
699900.00	4352800.00	.009635	699900.00	4352900.00	.005746
699900.00	4353000.00	.003316	699900.00	4353100.00	.002045
699900.00	4353200.00	.001347	699900.00	4353300.00	.000972
700000.00	4351300.00	.000164	700000.00	4351400.00	.000188
700000.00	4351500.00	.000218	700000.00	4351600.00	.000256
700000.00	4351700.00	.000306	700000.00	4351800.00	.000375
700000.00	4351900.00	.000475	700000.00	4352000.00	.000641
700000.00	4352100.00	.000896	700000.00	4352200.00	.001295
700000.00	4352300.00	.001934	700000.00	4352400.00	.003005
700000.00	4352500.00	.004544	700000.00	4352600.00	.006127
700000.00	4352700.00	.006734	700000.00	4352800.00	.005944
700000.00	4352900.00	.004411	700000.00	4353000.00	.003080
700000.00	4353100.00	.002088	700000.00	4353200.00	.001460
700000.00	4353300.00	.001054	700100.00	4351300.00	.000171
700100.00	4351400.00	.000196	700100.00	4351500.00	.000226
700100.00	4351600.00	.000265	700100.00	4351700.00	.000322
700100.00	4351800.00	.000405	700100.00	4351900.00	.000519
700100.00	4352000.00	.000678	700100.00	4352100.00	.000904
700100.00	4352200.00	.001234	700100.00	4352300.00	.001730
700100.00	4352400.00	.002403	700100.00	4352500.00	.003197
700100.00	4352600.00	.003875	700100.00	4352700.00	.004157
700100.00	4352800.00	.003922	700100.00	4352900.00	.003270
700100.00	4353000.00	.002558	700100.00	4353100.00	.001942
700100.00	4353200.00	.001438	700100.00	4353300.00	.001087
700200.00	4351300.00	.000175	700200.00	4351400.00	.000200
700200.00	4351500.00	.000238	700200.00	4351600.00	.000285
700200.00	4351700.00	.000346	700200.00	4351800.00	.000426
700200.00	4351900.00	.000533	700200.00	4352000.00	.000676
700200.00	4352100.00	.000866	700200.00	4352200.00	.001133
700200.00	4352300.00	.001486	700200.00	4352400.00	.001905
700200.00	4352500.00	.002346	700200.00	4352600.00	.002686
700200.00	4352700.00	.002840	700200.00	4352800.00	.002761
700200.00	4352900.00	.002469	700200.00	4353000.00	.002066
700200.00	4353100.00	.001683	700200.00	4353200.00	.001351
700200.00	4353300.00	.001062	700300.00	4351300.00	.000184

' MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 32A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000215	700300.00	4351500.00	.000253
700300.00	4351600.00	.000299	700300.00	4351700.00	.000358
700300.00	4351800.00	.000432	700300.00	4351900.00	.000527
700300.00	4352000.00	.000650	700300.00	4352100.00	.000813
700300.00	4352200.00	.001018	700300.00	4352300.00	.001258
700300.00	4352400.00	.001528	700300.00	4352500.00	.001789
700300.00	4352600.00	.001981	700300.00	4352700.00	.002074
700300.00	4352800.00	.002049	700300.00	4352900.00	.001909
700300.00	4353000.00	.001676	700300.00	4353100.00	.001433
700300.00	4353200.00	.001208	700300.00	4353300.00	.001005
700400.00	4351300.00	.000194	700400.00	4351400.00	.000224
700400.00	4351500.00	.000261	700400.00	4351600.00	.000305
700400.00	4351700.00	.000360	700400.00	4351800.00	.000427
700400.00	4351900.00	.000509	700400.00	4352000.00	.000616
700400.00	4352100.00	.000749	700400.00	4352200.00	.000902
700400.00	4352300.00	.001074	700400.00	4352400.00	.001252
700400.00	4352500.00	.001412	700400.00	4352600.00	.001529
700400.00	4352700.00	.001590	700400.00	4352800.00	.001585
700400.00	4352900.00	.001513	700400.00	4353000.00	.001384
700400.00	4353100.00	.001222	700400.00	4353200.00	.001062
700400.00	4353300.00	.000915			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000050	698400.00	4351400.00	.000056
698400.00	4351500.00	.000071	698400.00	4351600.00	.000090
698400.00	4351700.00	.000113	698400.00	4351800.00	.000140
698400.00	4351900.00	.000170	698400.00	4352000.00	.000180
698400.00	4352100.00	.000184	698400.00	4352200.00	.000181
698400.00	4352300.00	.000165	698400.00	4352400.00	.000141
698400.00	4352500.00	.000115	698400.00	4352600.00	.000093
698400.00	4352700.00	.000081	698400.00	4352800.00	.000069
698400.00	4352900.00	.000059	698400.00	4353000.00	.000050
698400.00	4353100.00	.000045	698400.00	4353200.00	.000041
698400.00	4353300.00	.000038	698500.00	4351300.00	.000054
698500.00	4351400.00	.000061	698500.00	4351500.00	.000070
698500.00	4351600.00	.000091	698500.00	4351700.00	.000120
698500.00	4351800.00	.000155	698500.00	4351900.00	.000197
698500.00	4352000.00	.000222	698500.00	4352100.00	.000230
698500.00	4352200.00	.000227	698500.00	4352300.00	.000204
698500.00	4352400.00	.000169	698500.00	4352500.00	.000132
698500.00	4352600.00	.000108	698500.00	4352700.00	.000091
698500.00	4352800.00	.000076	698500.00	4352900.00	.000063
698500.00	4353000.00	.000055	698500.00	4353100.00	.000050
698500.00	4353200.00	.000046	698500.00	4353300.00	.000042
698600.00	4351300.00	.000058	698600.00	4351400.00	.000067
698600.00	4351500.00	.000077	698600.00	4351600.00	.000090
698600.00	4351700.00	.000123	698600.00	4351800.00	.000168
698600.00	4351900.00	.000225	698600.00	4352000.00	.000283
698600.00	4352100.00	.000299	698600.00	4352200.00	.000297
698600.00	4352300.00	.000262	698600.00	4352400.00	.000208
698600.00	4352500.00	.000153	698600.00	4352600.00	.000127
698600.00	4352700.00	.000103	698600.00	4352800.00	.000083
698600.00	4352900.00	.000070	698600.00	4353000.00	.000063
698600.00	4353100.00	.000057	698600.00	4353200.00	.000051
698600.00	4353300.00	.000046	698700.00	4351300.00	.000061
698700.00	4351400.00	.000072	698700.00	4351500.00	.000085
698700.00	4351600.00	.000102	698700.00	4351700.00	.000122
698700.00	4351800.00	.000177	698700.00	4351900.00	.000256
698700.00	4352000.00	.000358	698700.00	4352100.00	.000406
698700.00	4352200.00	.000408	698700.00	4352300.00	.000349
698700.00	4352400.00	.000260	698700.00	4352500.00	.000191
698700.00	4352600.00	.000150	698700.00	4352700.00	.000116
698700.00	4352800.00	.000095	698700.00	4352900.00	.000083

* MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000073	698700.00	4353100.00	.000063
698700.00	4353200.00	.000056	698700.00	4353300.00	.000050
698800.00	4351300.00	.000064	698800.00	4351400.00	.000076
698800.00	4351500.00	.000092	698800.00	4351600.00	.000113
698800.00	4351700.00	.000141	698800.00	4351800.00	.000178
698800.00	4351900.00	.000280	698800.00	4352000.00	.000438
698800.00	4352100.00	.000583	698800.00	4352200.00	.000599
698800.00	4352300.00	.000492	698800.00	4352400.00	.000327
698800.00	4352500.00	.000241	698800.00	4352600.00	.000175
698800.00	4352700.00	.000136	698800.00	4352800.00	.000115
698800.00	4352900.00	.000097	698800.00	4353000.00	.000082
698800.00	4353100.00	.000070	698800.00	4353200.00	.000061
698800.00	4353300.00	.000054	698900.00	4351300.00	.000067
698900.00	4351400.00	.000080	698900.00	4351500.00	.000097
698900.00	4351600.00	.000123	698900.00	4351700.00	.000160
698900.00	4351800.00	.000212	698900.00	4351900.00	.000287
698900.00	4352000.00	.000516	698900.00	4352100.00	.000896
698900.00	4352200.00	.000978	698900.00	4352300.00	.000747
698900.00	4352400.00	.000452	698900.00	4352500.00	.000301
698900.00	4352600.00	.000216	698900.00	4352700.00	.000172
698900.00	4352800.00	.000138	698900.00	4352900.00	.000112
698900.00	4353000.00	.000092	698900.00	4353100.00	.000080
698900.00	4353200.00	.000070	698900.00	4353300.00	.000062
699000.00	4351300.00	.000071	699000.00	4351400.00	.000085
699000.00	4351500.00	.000105	699000.00	4351600.00	.000132
699000.00	4351700.00	.000172	699000.00	4351800.00	.000242
699000.00	4351900.00	.000357	699000.00	4352000.00	.000551
699000.00	4352100.00	.001273	699000.00	4352200.00	.001935
699000.00	4352300.00	.001264	699000.00	4352400.00	.000656
699000.00	4352500.00	.000402	699000.00	4352600.00	.000290
699000.00	4352700.00	.000212	699000.00	4352800.00	.000164
699000.00	4352900.00	.000134	699000.00	4353000.00	.000111
699000.00	4353100.00	.000094	699000.00	4353200.00	.000080
699000.00	4353300.00	.000070	699100.00	4351300.00	.000073
699100.00	4351400.00	.000089	699100.00	4351500.00	.000111
699100.00	4351600.00	.000143	699100.00	4351700.00	.000192
699100.00	4351800.00	.000272	699100.00	4351900.00	.000414
699100.00	4352000.00	.000733	699100.00	4352100.00	.001580
699100.00	4352200.00	.005742	699100.00	4352300.00	.002596
699100.00	4352400.00	.001062	699100.00	4352500.00	.000588

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000391	699100.00	4352700.00	.000280
699100.00	4352800.00	.000209	699100.00	4352900.00	.000162
699100.00	4353000.00	.000130	699100.00	4353100.00	.000107
699100.00	4353200.00	.000089	699100.00	4353300.00	.000077
699200.00	4351300.00	.000073	699200.00	4351400.00	.000089
699200.00	4351500.00	.000112	699200.00	4351600.00	.000145
699200.00	4351700.00	.000197	699200.00	4351800.00	.000286
699200.00	4351900.00	.000457	699200.00	4352000.00	.000870
699200.00	4352100.00	.002389	699200.00	4352200.00	.023785
699200.00	4352300.00	.009347	699200.00	4352400.00	.002107
699200.00	4352500.00	.000924	699200.00	4352600.00	.000528
699200.00	4352700.00	.000346	699200.00	4352800.00	.000246
699200.00	4352900.00	.000185	699200.00	4353000.00	.000145
699200.00	4353100.00	.000117	699200.00	4353200.00	.000097
699200.00	4353300.00	.000082	699300.00	4351300.00	.000084
699300.00	4351400.00	.000103	699300.00	4351500.00	.000131
699300.00	4351600.00	.000174	699300.00	4351700.00	.000242
699300.00	4351800.00	.000361	699300.00	4351900.00	.000600
699300.00	4352000.00	.001192	699300.00	4352100.00	.003689
699300.00	4352200.00	.019235	699300.00	4352300.00	.016648
699300.00	4352400.00	.003875	699300.00	4352500.00	.001485
699300.00	4352600.00	.000782	699300.00	4352700.00	.000483
699300.00	4352800.00	.000328	699300.00	4352900.00	.000238
699300.00	4353000.00	.000181	699300.00	4353100.00	.000144
699300.00	4353200.00	.000117	699300.00	4353300.00	.000097
699400.00	4351300.00	.000094	699400.00	4351400.00	.000116
699400.00	4351500.00	.000148	699400.00	4351600.00	.000196
699400.00	4351700.00	.000272	699400.00	4351800.00	.000400
699400.00	4351900.00	.000699	699400.00	4352000.00	.001349
699400.00	4352100.00	.002915	699400.00	4352200.00	.005534
699400.00	4352300.00	.005757	699400.00	4352400.00	.003367
699400.00	4352500.00	.001689	699400.00	4352600.00	.000927
699400.00	4352700.00	.000567	699400.00	4352800.00	.000388
699400.00	4352900.00	.000281	699400.00	4353000.00	.000213
699400.00	4353100.00	.000168	699400.00	4353200.00	.000135
699400.00	4353300.00	.000112	699500.00	4351300.00	.000100
699500.00	4351400.00	.000124	699500.00	4351500.00	.000157
699500.00	4351600.00	.000209	699500.00	4351700.00	.000301
699500.00	4351800.00	.000451	699500.00	4351900.00	.000705
699500.00	4352000.00	.001160	699500.00	4352100.00	.001874

** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.002596	699500.00	4352300.00	.002730
699500.00	4352400.00	.002155	699500.00	4352500.00	.001471
699500.00	4352600.00	.000941	699500.00	4352700.00	.000619
699500.00	4352800.00	.000425	699500.00	4352900.00	.000304
699500.00	4353000.00	.000233	699500.00	4353100.00	.000184
699500.00	4353200.00	.000149	699500.00	4353300.00	.000124
699600.00	4351300.00	.000104	699600.00	4351400.00	.000132
699600.00	4351500.00	.000171	699600.00	4351600.00	.000228
699600.00	4351700.00	.000312	699600.00	4351800.00	.000438
699600.00	4351900.00	.000632	699600.00	4352000.00	.000914
699600.00	4352100.00	.001254	699600.00	4352200.00	.001527
699600.00	4352300.00	.001601	699600.00	4352400.00	.001432
699600.00	4352500.00	.001121	699600.00	4352600.00	.000840
699600.00	4352700.00	.000603	699600.00	4352800.00	.000438
699600.00	4352900.00	.000327	699600.00	4353000.00	.000250
699600.00	4353100.00	.000195	699600.00	4353200.00	.000158
699600.00	4353300.00	.000132	699700.00	4351300.00	.000113
699700.00	4351400.00	.000141	699700.00	4351500.00	.000179
699700.00	4351600.00	.000230	699700.00	4351700.00	.000301
699700.00	4351800.00	.000402	699700.00	4351900.00	.000541
699700.00	4352000.00	.000710	699700.00	4352100.00	.000887
699700.00	4352200.00	.001015	699700.00	4352300.00	.001058
699700.00	4352400.00	.000997	699700.00	4352500.00	.000853
699700.00	4352600.00	.000691	699700.00	4352700.00	.000548
699700.00	4352800.00	.000422	699700.00	4352900.00	.000328
699700.00	4353000.00	.000258	699700.00	4353100.00	.000206
699700.00	4353200.00	.000168	699700.00	4353300.00	.000139
699800.00	4351300.00	.000118	699800.00	4351400.00	.000144
699800.00	4351500.00	.000178	699800.00	4351600.00	.000223
699800.00	4351700.00	.000282	699800.00	4351800.00	.000359
699800.00	4351900.00	.000453	699800.00	4352000.00	.000558
699800.00	4352100.00	.000659	699800.00	4352200.00	.000728
699800.00	4352300.00	.000755	699800.00	4352400.00	.000731
699800.00	4352500.00	.000661	699800.00	4352600.00	.000565
699800.00	4352700.00	.000473	699800.00	4352800.00	.000392
699800.00	4352900.00	.000316	699800.00	4353000.00	.000255
699800.00	4353100.00	.000209	699800.00	4353200.00	.000174
699800.00	4353300.00	.000146	699900.00	4351300.00	.000120
699900.00	4351400.00	.000143	699900.00	4351500.00	.000172
699900.00	4351600.00	.000211	699900.00	4351700.00	.000260

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000317	699900.00	4351900.00	.000382
699900.00	4352000.00	.000449	699900.00	4352100.00	.000509
699900.00	4352200.00	.000550	699900.00	4352300.00	.000568
699900.00	4352400.00	.000558	699900.00	4352500.00	.000524
699900.00	4352600.00	.000467	699900.00	4352700.00	.000406
699900.00	4352800.00	.000348	699900.00	4352900.00	.000296
699900.00	4353000.00	.000247	699900.00	4353100.00	.000207
699900.00	4353200.00	.000174	699900.00	4353300.00	.000148
700000.00	4351300.00	.000119	700000.00	4351400.00	.000140
700000.00	4351500.00	.000166	700000.00	4351600.00	.000198
700000.00	4351700.00	.000236	700000.00	4351800.00	.000278
700000.00	4351900.00	.000324	700000.00	4352000.00	.000370
700000.00	4352100.00	.000408	700000.00	4352200.00	.000434
700000.00	4352300.00	.000447	700000.00	4352400.00	.000443
700000.00	4352500.00	.000424	700000.00	4352600.00	.000391
700000.00	4352700.00	.000349	700000.00	4352800.00	.000307
700000.00	4352900.00	.000268	700000.00	4353000.00	.000234
700000.00	4353100.00	.000201	700000.00	4353200.00	.000172
700000.00	4353300.00	.000148	700100.00	4351300.00	.000116
700100.00	4351400.00	.000135	700100.00	4351500.00	.000157
700100.00	4351600.00	.000183	700100.00	4351700.00	.000212
700100.00	4351800.00	.000245	700100.00	4351900.00	.000278
700100.00	4352000.00	.000309	700100.00	4352100.00	.000335
700100.00	4352200.00	.000353	700100.00	4352300.00	.000363
700100.00	4352400.00	.000362	700100.00	4352500.00	.000350
700100.00	4352600.00	.000331	700100.00	4352700.00	.000301
700100.00	4352800.00	.000271	700100.00	4352900.00	.000243
700100.00	4353000.00	.000216	700100.00	4353100.00	.000192
700100.00	4353200.00	.000167	700100.00	4353300.00	.000146
700200.00	4351300.00	.000112	700200.00	4351400.00	.000129
700200.00	4351500.00	.000148	700200.00	4351600.00	.000169
700200.00	4351700.00	.000192	700200.00	4351800.00	.000217
700200.00	4351900.00	.000241	700200.00	4352000.00	.000263
700200.00	4352100.00	.000281	700200.00	4352200.00	.000294
700200.00	4352300.00	.000301	700200.00	4352400.00	.000301
700200.00	4352500.00	.000294	700200.00	4352600.00	.000282
700200.00	4352700.00	.000264	700200.00	4352800.00	.000242
700200.00	4352900.00	.000220	700200.00	4353000.00	.000198
700200.00	4353100.00	.000179	700200.00	4353200.00	.000161
700200.00	4353300.00	.000142	700300.00	4351300.00	.000108

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000122	700300.00	4351500.00	.000138
700300.00	4351600.00	.000156	700300.00	4351700.00	.000174
700300.00	4351800.00	.000194	700300.00	4351900.00	.000212
700300.00	4352000.00	.000228	700300.00	4352100.00	.000241
700300.00	4352200.00	.000250	700300.00	4352300.00	.000256
700300.00	4352400.00	.000257	700300.00	4352500.00	.000253
700300.00	4352600.00	.000245	700300.00	4352700.00	.000233
700300.00	4352800.00	.000216	700300.00	4352900.00	.000199
700300.00	4353000.00	.000182	700300.00	4353100.00	.000166
700300.00	4353200.00	.000151	700300.00	4353300.00	.000137
700400.00	4351300.00	.000103	700400.00	4351400.00	.000116
700400.00	4351500.00	.000129	700400.00	4351600.00	.000143
700400.00	4351700.00	.000158	700400.00	4351800.00	.000173
700400.00	4351900.00	.000187	700400.00	4352000.00	.000199
700400.00	4352100.00	.000210	700400.00	4352200.00	.000217
700400.00	4352300.00	.000221	700400.00	4352400.00	.000222
700400.00	4352500.00	.000220	700400.00	4352600.00	.000214
700400.00	4352700.00	.000206	700400.00	4352800.00	.000194
700400.00	4352900.00	.000180	700400.00	4353000.00	.000167
700400.00	4353100.00	.000154	700400.00	4353200.00	.000141
700400.00	4353300.00	.000129			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000022	698400.00	4351400.00	.000024
698400.00	4351500.00	.000026	698400.00	4351600.00	.000027
698400.00	4351700.00	.000027	698400.00	4351800.00	.000028
698400.00	4351900.00	.000028	698400.00	4352000.00	.000028
698400.00	4352100.00	.000028	698400.00	4352200.00	.000027
698400.00	4352300.00	.000025	698400.00	4352400.00	.000023
698400.00	4352500.00	.000022	698400.00	4352600.00	.000020
698400.00	4352700.00	.000018	698400.00	4352800.00	.000016
698400.00	4352900.00	.000014	698400.00	4353000.00	.000013
698400.00	4353100.00	.000013	698400.00	4353200.00	.000012
698400.00	4353300.00	.000011	698500.00	4351300.00	.000023
698500.00	4351400.00	.000026	698500.00	4351500.00	.000028
698500.00	4351600.00	.000030	698500.00	4351700.00	.000030
698500.00	4351800.00	.000031	698500.00	4351900.00	.000031
698500.00	4352000.00	.000031	698500.00	4352100.00	.000031
698500.00	4352200.00	.000030	698500.00	4352300.00	.000028
698500.00	4352400.00	.000026	698500.00	4352500.00	.000023
698500.00	4352600.00	.000021	698500.00	4352700.00	.000019
698500.00	4352800.00	.000017	698500.00	4352900.00	.000015
698500.00	4353000.00	.000014	698500.00	4353100.00	.000013
698500.00	4353200.00	.000012	698500.00	4353300.00	.000011
698600.00	4351300.00	.000024	698600.00	4351400.00	.000027
698600.00	4351500.00	.000030	698600.00	4351600.00	.000033
698600.00	4351700.00	.000033	698600.00	4351800.00	.000034
698600.00	4351900.00	.000034	698600.00	4352000.00	.000034
698600.00	4352100.00	.000034	698600.00	4352200.00	.000033
698600.00	4352300.00	.000031	698600.00	4352400.00	.000028
698600.00	4352500.00	.000026	698600.00	4352600.00	.000023
698600.00	4352700.00	.000020	698600.00	4352800.00	.000018
698600.00	4352900.00	.000017	698600.00	4353000.00	.000015
698600.00	4353100.00	.000014	698600.00	4353200.00	.000013
698600.00	4353300.00	.000012	698700.00	4351300.00	.000025
698700.00	4351400.00	.000028	698700.00	4351500.00	.000032
698700.00	4351600.00	.000036	698700.00	4351700.00	.000037
698700.00	4351800.00	.000038	698700.00	4351900.00	.000039
698700.00	4352000.00	.000039	698700.00	4352100.00	.000038
698700.00	4352200.00	.000037	698700.00	4352300.00	.000034
698700.00	4352400.00	.000031	698700.00	4352500.00	.000028
698700.00	4352600.00	.000025	698700.00	4352700.00	.000022
698700.00	4352800.00	.000019	698700.00	4352900.00	.000018

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000016	698700.00	4353100.00	.000015
698700.00	4353200.00	.000014	698700.00	4353300.00	.000012
698800.00	4351300.00	.000026	698800.00	4351400.00	.000030
698800.00	4351500.00	.000034	698800.00	4351600.00	.000039
698800.00	4351700.00	.000042	698800.00	4351800.00	.000043
698800.00	4351900.00	.000044	698800.00	4352000.00	.000044
698800.00	4352100.00	.000043	698800.00	4352200.00	.000042
698800.00	4352300.00	.000038	698800.00	4352400.00	.000035
698800.00	4352500.00	.000031	698800.00	4352600.00	.000027
698800.00	4352700.00	.000023	698800.00	4352800.00	.000021
698800.00	4352900.00	.000019	698800.00	4353000.00	.000018
698800.00	4353100.00	.000016	698800.00	4353200.00	.000014
698800.00	4353300.00	.000013	698900.00	4351300.00	.000027
698900.00	4351400.00	.000031	698900.00	4351500.00	.000036
698900.00	4351600.00	.000042	698900.00	4351700.00	.000047
698900.00	4351800.00	.000049	698900.00	4351900.00	.000050
698900.00	4352000.00	.000050	698900.00	4352100.00	.000050
698900.00	4352200.00	.000048	698900.00	4352300.00	.000043
698900.00	4352400.00	.000039	698900.00	4352500.00	.000034
698900.00	4352600.00	.000029	698900.00	4352700.00	.000025
698900.00	4352800.00	.000023	698900.00	4352900.00	.000021
698900.00	4353000.00	.000019	698900.00	4353100.00	.000017
698900.00	4353200.00	.000015	698900.00	4353300.00	.000013
699000.00	4351300.00	.000027	699000.00	4351400.00	.000032
699000.00	4351500.00	.000038	699000.00	4351600.00	.000045
699000.00	4351700.00	.000052	699000.00	4351800.00	.000056
699000.00	4351900.00	.000057	699000.00	4352000.00	.000058
699000.00	4352100.00	.000058	699000.00	4352200.00	.000055
699000.00	4352300.00	.000049	699000.00	4352400.00	.000044
699000.00	4352500.00	.000037	699000.00	4352600.00	.000031
699000.00	4352700.00	.000028	699000.00	4352800.00	.000025
699000.00	4352900.00	.000022	699000.00	4353000.00	.000020
699000.00	4353100.00	.000018	699000.00	4353200.00	.000016
699000.00	4353300.00	.000014	699100.00	4351300.00	.000027
699100.00	4351400.00	.000033	699100.00	4351500.00	.000040
699100.00	4351600.00	.000048	699100.00	4351700.00	.000057
699100.00	4351800.00	.000064	699100.00	4351900.00	.000067
699100.00	4352000.00	.000068	699100.00	4352100.00	.000068
699100.00	4352200.00	.000064	699100.00	4352300.00	.000057
699100.00	4352400.00	.000050	699100.00	4352500.00	.000041

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000035	699100.00	4352700.00	.000031
699100.00	4352800.00	.000027	699100.00	4352900.00	.000024
699100.00	4353000.00	.000021	699100.00	4353100.00	.000018
699100.00	4353200.00	.000017	699100.00	4353300.00	.000016
699200.00	4351300.00	.000026	699200.00	4351400.00	.000033
699200.00	4351500.00	.000041	699200.00	4351600.00	.000051
699200.00	4351700.00	.000062	699200.00	4351800.00	.000075
699200.00	4351900.00	.000080	699200.00	4352000.00	.000082
699200.00	4352100.00	.000082	699200.00	4352200.00	.000077
699200.00	4352300.00	.000068	699200.00	4352400.00	.000057
699200.00	4352500.00	.000046	699200.00	4352600.00	.000039
699200.00	4352700.00	.000034	699200.00	4352800.00	.000030
699200.00	4352900.00	.000026	699200.00	4353000.00	.000022
699200.00	4353100.00	.000020	699200.00	4353200.00	.000019
699200.00	4353300.00	.000017	699300.00	4351300.00	.000028
699300.00	4351400.00	.000032	699300.00	4351500.00	.000042
699300.00	4351600.00	.000054	699300.00	4351700.00	.000068
699300.00	4351800.00	.000086	699300.00	4351900.00	.000098
699300.00	4352000.00	.000101	699300.00	4352100.00	.000102
699300.00	4352200.00	.000095	699300.00	4352300.00	.000081
699300.00	4352400.00	.000066	699300.00	4352500.00	.000052
699300.00	4352600.00	.000045	699300.00	4352700.00	.000038
699300.00	4352800.00	.000032	699300.00	4352900.00	.000027
699300.00	4353000.00	.000024	699300.00	4353100.00	.000022
699300.00	4353200.00	.000021	699300.00	4353300.00	.000019
699400.00	4351300.00	.000031	699400.00	4351400.00	.000035
699400.00	4351500.00	.000041	699400.00	4351600.00	.000055
699400.00	4351700.00	.000074	699400.00	4351800.00	.000097
699400.00	4351900.00	.000121	699400.00	4352000.00	.000129
699400.00	4352100.00	.000130	699400.00	4352200.00	.000120
699400.00	4352300.00	.000100	699400.00	4352400.00	.000078
699400.00	4352500.00	.000062	699400.00	4352600.00	.000052
699400.00	4352700.00	.000042	699400.00	4352800.00	.000035
699400.00	4352900.00	.000030	699400.00	4353000.00	.000027
699400.00	4353100.00	.000025	699400.00	4353200.00	.000023
699400.00	4353300.00	.000021	699500.00	4351300.00	.000033
699500.00	4351400.00	.000038	699500.00	4351500.00	.000045
699500.00	4351600.00	.000054	699500.00	4351700.00	.000078
699500.00	4351800.00	.000109	699500.00	4351900.00	.000147
699500.00	4352000.00	.000169	699500.00	4352100.00	.000173

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.000159	699500.00	4352300.00	.000127
699500.00	4352400.00	.000091	699500.00	4352500.00	.000074
699500.00	4352600.00	.000059	699500.00	4352700.00	.000047
699500.00	4352800.00	.000040	699500.00	4352900.00	.000035
699500.00	4353000.00	.000031	699500.00	4353100.00	.000028
699500.00	4353200.00	.000025	699500.00	4353300.00	.000022
699600.00	4351300.00	.000035	699600.00	4351400.00	.000042
699600.00	4351500.00	.000050	699600.00	4351600.00	.000061
699600.00	4351700.00	.000076	699600.00	4351800.00	.000118
699600.00	4351900.00	.000176	699600.00	4352000.00	.000233
699600.00	4352100.00	.000245	699600.00	4352200.00	.000221
699600.00	4352300.00	.000164	699600.00	4352400.00	.000116
699600.00	4352500.00	.000089	699600.00	4352600.00	.000067
699600.00	4352700.00	.000054	699600.00	4352800.00	.000047
699600.00	4352900.00	.000040	699600.00	4353000.00	.000035
699600.00	4353100.00	.000030	699600.00	4353200.00	.000027
699600.00	4353300.00	.000024	699700.00	4351300.00	.000036
699700.00	4351400.00	.000044	699700.00	4351500.00	.000055
699700.00	4351600.00	.000069	699700.00	4351700.00	.000089
699700.00	4351800.00	.000118	699700.00	4351900.00	.000203
699700.00	4352000.00	.000328	699700.00	4352100.00	.000374
699700.00	4352200.00	.000332	699700.00	4352300.00	.000218
699700.00	4352400.00	.000151	699700.00	4352500.00	.000105
699700.00	4352600.00	.000081	699700.00	4352700.00	.000067
699700.00	4352800.00	.000055	699700.00	4352900.00	.000046
699700.00	4353000.00	.000039	699700.00	4353100.00	.000034
699700.00	4353200.00	.000030	699700.00	4353300.00	.000027
699800.00	4351300.00	.000039	699800.00	4351400.00	.000047
699800.00	4351500.00	.000058	699800.00	4351600.00	.000076
699800.00	4351700.00	.000103	699800.00	4351800.00	.000143
699800.00	4351900.00	.000209	699800.00	4352000.00	.000432
699800.00	4352100.00	.000650	699800.00	4352200.00	.000560
699800.00	4352300.00	.000312	699800.00	4352400.00	.000194
699800.00	4352500.00	.000136	699800.00	4352600.00	.000104
699800.00	4352700.00	.000081	699800.00	4352800.00	.000063
699800.00	4352900.00	.000053	699800.00	4353000.00	.000046
699800.00	4353100.00	.000039	699800.00	4353200.00	.000034
699800.00	4353300.00	.000030	699900.00	4351300.00	.000041
699900.00	4351400.00	.000050	699900.00	4351500.00	.000064
699900.00	4351600.00	.000083	699900.00	4351700.00	.000113

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000166	699900.00	4351900.00	.000271
699900.00	4352000.00	.000491	699900.00	4352100.00	.001422
699900.00	4352200.00	.001171	699900.00	4352300.00	.000496
699900.00	4352400.00	.000280	699900.00	4352500.00	.000185
699900.00	4352600.00	.000130	699900.00	4352700.00	.000101
699900.00	4352800.00	.000079	699900.00	4352900.00	.000064
699900.00	4353000.00	.000053	699900.00	4353100.00	.000045
699900.00	4353200.00	.000038	699900.00	4353300.00	.000033
700000.00	4351300.00	.000042	700000.00	4351400.00	.000052
700000.00	4351500.00	.000066	700000.00	4351600.00	.000089
700000.00	4351700.00	.000125	700000.00	4351800.00	.000190
700000.00	4351900.00	.000328	700000.00	4352000.00	.000704
700000.00	4352100.00	.002663	700000.00	4352200.00	.003648
700000.00	4352300.00	.000954	700000.00	4352400.00	.000451
700000.00	4352500.00	.000267	700000.00	4352600.00	.000177
700000.00	4352700.00	.000126	700000.00	4352800.00	.000094
700000.00	4352900.00	.000074	700000.00	4353000.00	.000060
700000.00	4353100.00	.000049	700000.00	4353200.00	.000042
700000.00	4353300.00	.000036	700100.00	4351300.00	.000044
700100.00	4351400.00	.000055	700100.00	4351500.00	.000071
700100.00	4351600.00	.000096	700100.00	4351700.00	.000138
700100.00	4351800.00	.000218	700100.00	4351900.00	.000401
700100.00	4352000.00	.001008	700100.00	4352100.00	.006026
700100.00	4352200.00	.036495	700100.00	4352300.00	.002427
700100.00	4352400.00	.000778	700100.00	4352500.00	.000385
700100.00	4352600.00	.000233	700100.00	4352700.00	.000157
700100.00	4352800.00	.000114	700100.00	4352900.00	.000086
700100.00	4353000.00	.000069	700100.00	4353100.00	.000056
700100.00	4353200.00	.000047	700100.00	4353300.00	.000040
700200.00	4351300.00	.000051	700200.00	4351400.00	.000065
700200.00	4351500.00	.000085	700200.00	4351600.00	.000116
700200.00	4351700.00	.000169	700200.00	4351800.00	.000268
700200.00	4351900.00	.000507	700200.00	4352000.00	.001251
700200.00	4352100.00	.003677	700200.00	4352200.00	.005620
700200.00	4352300.00	.002700	700200.00	4352400.00	.001057
700200.00	4352500.00	.000514	700200.00	4352600.00	.000307
700200.00	4352700.00	.000203	700200.00	4352800.00	.000144
700200.00	4352900.00	.000108	700200.00	4353000.00	.000084
700200.00	4353100.00	.000067	700200.00	4353200.00	.000055
700200.00	4353300.00	.000047	700300.00	4351300.00	.000056

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 39D ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000071	700300.00	4351500.00	.000092
700300.00	4351600.00	.000124	700300.00	4351700.00	.000188
700300.00	4351800.00	.000304	700300.00	4351900.00	.000526
700300.00	4352000.00	.000975	700300.00	4352100.00	.001663
700300.00	4352200.00	.002009	700300.00	4352300.00	.001569
700300.00	4352400.00	.000970	700300.00	4352500.00	.000562
700300.00	4352600.00	.000346	700300.00	4352700.00	.000227
700300.00	4352800.00	.000162	700300.00	4352900.00	.000122
700300.00	4353000.00	.000095	700300.00	4353100.00	.000076
700300.00	4353200.00	.000063	700300.00	4353300.00	.000053
700400.00	4351300.00	.000059	700400.00	4351400.00	.000074
700400.00	4351500.00	.000100	700400.00	4351600.00	.000138
700400.00	4351700.00	.000199	700400.00	4351800.00	.000294
700400.00	4351900.00	.000453	700400.00	4352000.00	.000684
700400.00	4352100.00	.000930	700400.00	4352200.00	.001044
700400.00	4352300.00	.000950	700400.00	4352400.00	.000719
700400.00	4352500.00	.000512	700400.00	4352600.00	.000348
700400.00	4352700.00	.000243	700400.00	4352800.00	.000175
700400.00	4352900.00	.000131	700400.00	4353000.00	.000101
700400.00	4353100.00	.000082	700400.00	4353200.00	.000068
700400.00	4353300.00	.000057			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 65 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000371	698400.00	4351400.00	.000431
698400.00	4351500.00	.000508	698400.00	4351600.00	.000596
698400.00	4351700.00	.000695	698400.00	4351800.00	.000806
698400.00	4351900.00	.000929	698400.00	4352000.00	.001062
698400.00	4352100.00	.001134	698400.00	4352200.00	.001167
698400.00	4352300.00	.001185	698400.00	4352400.00	.001185
698400.00	4352500.00	.001167	698400.00	4352600.00	.001094
698400.00	4352700.00	.000994	698400.00	4352800.00	.000885
698400.00	4352900.00	.000773	698400.00	4353000.00	.000661
698400.00	4353100.00	.000590	698400.00	4353200.00	.000537
698400.00	4353300.00	.000486	698500.00	4351300.00	.000394
698500.00	4351400.00	.000427	698500.00	4351500.00	.000503
698500.00	4351600.00	.000601	698500.00	4351700.00	.000714
698500.00	4351800.00	.000843	698500.00	4351900.00	.000988
698500.00	4352000.00	.001149	698500.00	4352100.00	.001288
698500.00	4352200.00	.001335	698500.00	4352300.00	.001362
698500.00	4352400.00	.001366	698500.00	4352500.00	.001345
698500.00	4352600.00	.001254	698500.00	4352700.00	.001126
698500.00	4352800.00	.000989	698500.00	4352900.00	.000848
698500.00	4353000.00	.000715	698500.00	4353100.00	.000648
698500.00	4353200.00	.000583	698500.00	4353300.00	.000522
698600.00	4351300.00	.000417	698600.00	4351400.00	.000456
698600.00	4351500.00	.000498	698600.00	4351600.00	.000595
698600.00	4351700.00	.000724	698600.00	4351800.00	.000874
698600.00	4351900.00	.001046	698600.00	4352000.00	.001241
698600.00	4352100.00	.001456	698600.00	4352200.00	.001543
698600.00	4352300.00	.001585	698600.00	4352400.00	.001597
698600.00	4352500.00	.001572	698600.00	4352600.00	.001454
698600.00	4352700.00	.001289	698600.00	4352800.00	.001110
698600.00	4352900.00	.000929	698600.00	4353000.00	.000798
698600.00	4353100.00	.000713	698600.00	4353200.00	.000633
698600.00	4353300.00	.000558	698700.00	4351300.00	.000440
698700.00	4351400.00	.000484	698700.00	4351500.00	.000534
698700.00	4351600.00	.000590	698700.00	4351700.00	.000719
698700.00	4351800.00	.000892	698700.00	4351900.00	.001097
698700.00	4352000.00	.001335	698700.00	4352100.00	.001605
698700.00	4352200.00	.001812	698700.00	4352300.00	.001887
698700.00	4352400.00	.001914	698700.00	4352500.00	.001883
698700.00	4352600.00	.001726	698700.00	4352700.00	.001503
698700.00	4352800.00	.001262	698700.00	4352900.00	.001018

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 65 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000895	698700.00	4353100.00	.000785
698700.00	4353200.00	.000685	698700.00	4353300.00	.000594
698800.00	4351300.00	.000462	698800.00	4351400.00	.000513
698800.00	4351500.00	.000571	698800.00	4351600.00	.000638
698800.00	4351700.00	.000713	698800.00	4351800.00	.000890
698800.00	4351900.00	.001133	698800.00	4352000.00	.001431
698800.00	4352100.00	.001784	698800.00	4352200.00	.002172
698800.00	4352300.00	.002292	698800.00	4352400.00	.002343
698800.00	4352500.00	.002307	698800.00	4352600.00	.002089
698800.00	4352700.00	.001777	698800.00	4352800.00	.001443
698800.00	4352900.00	.001169	698800.00	4353000.00	.001012
698800.00	4353100.00	.000866	698800.00	4353200.00	.000737
698800.00	4353300.00	.000627	698900.00	4351300.00	.000481
698900.00	4351400.00	.000539	698900.00	4351500.00	.000607
698900.00	4351600.00	.000686	698900.00	4351700.00	.000777
698900.00	4351800.00	.000883	698900.00	4351900.00	.001144
698900.00	4352000.00	.001515	698900.00	4352100.00	.001971
698900.00	4352200.00	.002511	698900.00	4352300.00	.002846
698900.00	4352400.00	.002944	698900.00	4352500.00	.002904
698900.00	4352600.00	.002589	698900.00	4352700.00	.002133
698900.00	4352800.00	.001653	698900.00	4352900.00	.001364
698900.00	4353000.00	.001148	698900.00	4353100.00	.000954
698900.00	4353200.00	.000788	698900.00	4353300.00	.000693
699000.00	4351300.00	.000498	699000.00	4351400.00	.000562
699000.00	4351500.00	.000640	699000.00	4351600.00	.000732
699000.00	4351700.00	.000842	699000.00	4351800.00	.000980
699000.00	4351900.00	.001145	699000.00	4352000.00	.001552
699000.00	4352100.00	.002142	699000.00	4352200.00	.002884
699000.00	4352300.00	.003637	699000.00	4352400.00	.003845
699000.00	4352500.00	.003814	699000.00	4352600.00	.003329
699000.00	4352700.00	.002619	699000.00	4352800.00	.001943
699000.00	4352900.00	.001601	699000.00	4353000.00	.001296
699000.00	4353100.00	.001038	699000.00	4353200.00	.000890
699000.00	4353300.00	.000796	699100.00	4351300.00	.000509
699100.00	4351400.00	.000580	699100.00	4351500.00	.000666
699100.00	4351600.00	.000772	699100.00	4351700.00	.000906
699100.00	4351800.00	.001079	699100.00	4351900.00	.001295
699100.00	4352000.00	.001561	699100.00	4352100.00	.002244
699100.00	4352200.00	.003283	699100.00	4352300.00	.004621
699100.00	4352400.00	.005250	699100.00	4352500.00	.005265

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 65 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.004459	699100.00	4352700.00	.003267
699100.00	4352800.00	.002423	699100.00	4352900.00	.001888
699100.00	4353000.00	.001443	699100.00	4353100.00	.001199
699100.00	4353200.00	.001048	699100.00	4353300.00	.000912
699200.00	4351300.00	.000535	699200.00	4351400.00	.000605
699200.00	4351500.00	.000689	699200.00	4351600.00	.000801
699200.00	4351700.00	.000960	699200.00	4351800.00	.001167
699200.00	4351900.00	.001441	699200.00	4352000.00	.001805
699200.00	4352100.00	.002284	699200.00	4352200.00	.003582
699200.00	4352300.00	.005665	699200.00	4352400.00	.007601
699200.00	4352500.00	.007802	699200.00	4352600.00	.006302
699200.00	4352700.00	.004085	699200.00	4352800.00	.003046
699200.00	4352900.00	.002188	699200.00	4353000.00	.001728
699200.00	4353100.00	.001452	699200.00	4353200.00	.001222
699200.00	4353300.00	.001034	699300.00	4351300.00	.000556
699300.00	4351400.00	.000633	699300.00	4351500.00	.000728
699300.00	4351600.00	.000850	699300.00	4351700.00	.001011
699300.00	4351800.00	.001228	699300.00	4351900.00	.001558
699300.00	4352000.00	.002035	699300.00	4352100.00	.002725
699300.00	4352200.00	.003715	699300.00	4352300.00	.006681
699300.00	4352400.00	.011821	699300.00	4352500.00	.012909
699300.00	4352600.00	.009590	699300.00	4352700.00	.005769
699300.00	4352800.00	.003769	699300.00	4352900.00	.002753
699300.00	4353000.00	.002181	699300.00	4353100.00	.001734
699300.00	4353200.00	.001400	699300.00	4353300.00	.001163
699400.00	4351300.00	.000571	699400.00	4351400.00	.000654
699400.00	4351500.00	.000758	699400.00	4351600.00	.000896
699400.00	4351700.00	.001081	699400.00	4351800.00	.001332
699400.00	4351900.00	.001686	699400.00	4352000.00	.002203
699400.00	4352100.00	.003093	699400.00	4352200.00	.004623
699400.00	4352300.00	.007248	699400.00	4352400.00	.016989
699400.00	4352500.00	.026284	699400.00	4352600.00	.016149
699400.00	4352700.00	.008265	699400.00	4352800.00	.005166
699400.00	4352900.00	.003665	699400.00	4353000.00	.002664
699400.00	4353100.00	.002086	699400.00	4353200.00	.001696
699400.00	4353300.00	.001406	699500.00	4351300.00	.000579
699500.00	4351400.00	.000665	699500.00	4351500.00	.000773
699500.00	4351600.00	.000921	699500.00	4351700.00	.001122
699500.00	4351800.00	.001400	699500.00	4351900.00	.001809
699500.00	4352000.00	.002440	699500.00	4352100.00	.003480

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 65 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.005364	699500.00	4352300.00	.009568
699500.00	4352400.00	.021698	699500.00	4352500.00	.084362
699500.00	4352600.00	.034112	699500.00	4352700.00	.013772
699500.00	4352800.00	.007435	699500.00	4352900.00	.005003
699500.00	4353000.00	.003543	699500.00	4353100.00	.002633
699500.00	4353200.00	.002035	699500.00	4353300.00	.001628
699600.00	4351300.00	.000577	699600.00	4351400.00	.000663
699600.00	4351500.00	.000773	699600.00	4351600.00	.000921
699600.00	4351700.00	.001124	699600.00	4351800.00	.001408
699600.00	4351900.00	.001830	699600.00	4352000.00	.002493
699600.00	4352100.00	.003624	699600.00	4352200.00	.005817
699600.00	4352300.00	.011200	699600.00	4352400.00	.031763
699600.00	4352500.00	.418938	699600.00	4352600.00	.127139
699600.00	4352700.00	.026522	699600.00	4352800.00	.011555
699600.00	4352900.00	.006599	699600.00	4353000.00	.004321
699600.00	4353100.00	.003070	699600.00	4353200.00	.002305
699600.00	4353300.00	.001808	699700.00	4351300.00	.000648
699700.00	4351400.00	.000752	699700.00	4351500.00	.000885
699700.00	4351600.00	.001068	699700.00	4351700.00	.001321
699700.00	4351800.00	.001681	699700.00	4351900.00	.002230
699700.00	4352000.00	.003116	699700.00	4352100.00	.004675
699700.00	4352200.00	.007799	699700.00	4352300.00	.015522
699700.00	4352400.00	.049070	699700.00	4352500.00	.214846
699700.00	4352600.00	.176305	699700.00	4352700.00	.047156
699700.00	4352800.00	.018388	699700.00	4352900.00	.009803
699700.00	4353000.00	.006072	699700.00	4353100.00	.004132
699700.00	4353200.00	.002999	699700.00	4353300.00	.002288
699800.00	4351300.00	.000714	699800.00	4351400.00	.000832
699800.00	4351500.00	.000983	699800.00	4351600.00	.001191
699800.00	4351700.00	.001478	699800.00	4351800.00	.001884
699800.00	4351900.00	.002493	699800.00	4352000.00	.003461
699800.00	4352100.00	.005216	699800.00	4352200.00	.009038
699800.00	4352300.00	.017163	699800.00	4352400.00	.035924
699800.00	4352500.00	.063919	699800.00	4352600.00	.065054
699800.00	4352700.00	.039310	699800.00	4352800.00	.020473
699800.00	4352900.00	.011451	699800.00	4353000.00	.007012
699800.00	4353100.00	.004820	699800.00	4353200.00	.003502
699800.00	4353300.00	.002665	699900.00	4351300.00	.000766
699900.00	4351400.00	.000892	699900.00	4351500.00	.001054
699900.00	4351600.00	.001270	699900.00	4351700.00	.001568

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 65 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.001982	699900.00	4351900.00	.002681
699900.00	4352000.00	.003844	699900.00	4352100.00	.005730
699900.00	4352200.00	.008892	699900.00	4352300.00	.014459
699900.00	4352400.00	.022777	699900.00	4352500.00	.030703
699900.00	4352600.00	.031937	699900.00	4352700.00	.025427
699900.00	4352800.00	.017623	699900.00	4352900.00	.011465
699900.00	4353000.00	.007626	699900.00	4353100.00	.005277
699900.00	4353200.00	.003794	699900.00	4353300.00	.002892
700000.00	4351300.00	.000802	700000.00	4351400.00	.000932
700000.00	4351500.00	.001097	700000.00	4351600.00	.001314
700000.00	4351700.00	.001675	700000.00	4351800.00	.002177
700000.00	4351900.00	.002890	700000.00	4352000.00	.003938
700000.00	4352100.00	.005497	700000.00	4352200.00	.007906
700000.00	4352300.00	.011276	700000.00	4352400.00	.015240
700000.00	4352500.00	.018307	700000.00	4352600.00	.019065
700000.00	4352700.00	.017076	700000.00	4352800.00	.013471
700000.00	4352900.00	.010173	700000.00	4353000.00	.007375
700000.00	4353100.00	.005394	700000.00	4353200.00	.004046
700000.00	4353300.00	.003106	700100.00	4351300.00	.000824
700100.00	4351400.00	.000969	700100.00	4351500.00	.001171
700100.00	4351600.00	.001432	700100.00	4351700.00	.001783
700100.00	4351800.00	.002258	700100.00	4351900.00	.002899
700100.00	4352000.00	.003771	700100.00	4352100.00	.005029
700100.00	4352200.00	.006712	700100.00	4352300.00	.008728
700100.00	4352400.00	.010804	700100.00	4352500.00	.012260
700100.00	4352600.00	.012732	700100.00	4352700.00	.011996
700100.00	4352800.00	.010296	700100.00	4352900.00	.008385
700100.00	4353000.00	.006687	700100.00	4353100.00	.005187
700100.00	4353200.00	.004043	700100.00	4353300.00	.003193
700200.00	4351300.00	.000878	700200.00	4351400.00	.001038
700200.00	4351500.00	.001238	700200.00	4351600.00	.001491
700200.00	4351700.00	.001813	700200.00	4351800.00	.002239
700200.00	4351900.00	.002790	700200.00	4352000.00	.003530
700200.00	4352100.00	.004473	700200.00	4352200.00	.005608
700200.00	4352300.00	.006867	700200.00	4352400.00	.008043
700200.00	4352500.00	.008836	700200.00	4352600.00	.009145
700200.00	4352700.00	.008841	700200.00	4352800.00	.008013
700200.00	4352900.00	.006871	700200.00	4353000.00	.005770
700200.00	4353100.00	.004797	700200.00	4353200.00	.003888
700200.00	4353300.00	.003154	700300.00	4351300.00	.000921

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 65 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.001077	700300.00	4351500.00	.001269
700300.00	4351600.00	.001505	700300.00	4351700.00	.001797
700300.00	4351800.00	.002161	700300.00	4351900.00	.002642
700300.00	4352000.00	.003239	700300.00	4352100.00	.003938
700300.00	4352200.00	.004718	700300.00	4352300.00	.005523
700300.00	4352400.00	.006224	700300.00	4352500.00	.006699
700300.00	4352600.00	.006913	700300.00	4352700.00	.006784
700300.00	4352800.00	.006374	700300.00	4352900.00	.005695
700300.00	4353000.00	.004959	700300.00	4353100.00	.004261
700300.00	4353200.00	.003634	700300.00	4353300.00	.003044
700400.00	4351300.00	.000945	700400.00	4351400.00	.001093
700400.00	4351500.00	.001272	700400.00	4351600.00	.001487
700400.00	4351700.00	.001747	700400.00	4351800.00	.002072
700400.00	4351900.00	.002466	700400.00	4352000.00	.002931
700400.00	4352100.00	.003453	700400.00	4352200.00	.004010
700400.00	4352300.00	.004551	700400.00	4352400.00	.005003
700400.00	4352500.00	.005310	700400.00	4352600.00	.005462
700400.00	4352700.00	.005413	700400.00	4352800.00	.005177
700400.00	4352900.00	.004775	700400.00	4353000.00	.004269
700400.00	4353100.00	.003764	700400.00	4353200.00	.003297
700400.00	4353300.00	.002888			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 67 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000069	698400.00	4351400.00	.000078
698400.00	4351500.00	.000088	698400.00	4351600.00	.000099
698400.00	4351700.00	.000121	698400.00	4351800.00	.000159
698400.00	4351900.00	.000205	698400.00	4352000.00	.000260
698400.00	4352100.00	.000317	698400.00	4352200.00	.000334
698400.00	4352300.00	.000338	698400.00	4352400.00	.000326
698400.00	4352500.00	.000281	698400.00	4352600.00	.000230
698400.00	4352700.00	.000177	698400.00	4352800.00	.000152
698400.00	4352900.00	.000129	698400.00	4353000.00	.000108
698400.00	4353100.00	.000090	698400.00	4353200.00	.000080
698400.00	4353300.00	.000074	698500.00	4351300.00	.000073
698500.00	4351400.00	.000083	698500.00	4351500.00	.000094
698500.00	4351600.00	.000108	698500.00	4351700.00	.000125
698500.00	4351800.00	.000159	698500.00	4351900.00	.000218
698500.00	4352000.00	.000291	698500.00	4352100.00	.000379
698500.00	4352200.00	.000425	698500.00	4352300.00	.000437
698500.00	4352400.00	.000419	698500.00	4352500.00	.000352
698500.00	4352600.00	.000274	698500.00	4352700.00	.000212
698500.00	4352800.00	.000176	698500.00	4352900.00	.000144
698500.00	4353000.00	.000117	698500.00	4353100.00	.000101
698500.00	4353200.00	.000091	698500.00	4353300.00	.000082
698600.00	4351300.00	.000076	698600.00	4351400.00	.000087
698600.00	4351500.00	.000100	698600.00	4351600.00	.000118
698600.00	4351700.00	.000140	698600.00	4351800.00	.000166
698600.00	4351900.00	.000221	698600.00	4352000.00	.000318
698600.00	4352100.00	.000445	698600.00	4352200.00	.000562
698600.00	4352300.00	.000590	698600.00	4352400.00	.000565
698600.00	4352500.00	.000455	698600.00	4352600.00	.000329
698600.00	4352700.00	.000258	698600.00	4352800.00	.000203
698600.00	4352900.00	.000158	698600.00	4353000.00	.000134
698600.00	4353100.00	.000118	698600.00	4353200.00	.000104
698600.00	4353300.00	.000092	698700.00	4351300.00	.000078
698700.00	4351400.00	.000090	698700.00	4351500.00	.000106
698700.00	4351600.00	.000127	698700.00	4351700.00	.000154
698700.00	4351800.00	.000188	698700.00	4351900.00	.000233
698700.00	4352000.00	.000332	698700.00	4352100.00	.000515
698700.00	4352200.00	.000760	698700.00	4352300.00	.000844
698700.00	4352400.00	.000809	698700.00	4352500.00	.000610
698700.00	4352600.00	.000415	698700.00	4352700.00	.000315
698700.00	4352800.00	.000232	698700.00	4352900.00	.000187

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 67 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000160	698700.00	4353100.00	.000137
698700.00	4353200.00	.000117	698700.00	4353300.00	.000101
698800.00	4351300.00	.000082	698800.00	4351400.00	.000095
698800.00	4351500.00	.000111	698800.00	4351600.00	.000133
698800.00	4351700.00	.000165	698800.00	4351800.00	.000209
698800.00	4351900.00	.000271	698800.00	4352000.00	.000357
698800.00	4352100.00	.000562	698800.00	4352200.00	.000971
698800.00	4352300.00	.001311	698800.00	4352400.00	.001268
698800.00	4352500.00	.000853	698800.00	4352600.00	.000556
698800.00	4352700.00	.000378	698800.00	4352800.00	.000286
698800.00	4352900.00	.000232	698800.00	4353000.00	.000189
698800.00	4353100.00	.000156	698800.00	4353200.00	.000130
698800.00	4353300.00	.000113	698900.00	4351300.00	.000086
698900.00	4351400.00	.000099	698900.00	4351500.00	.000118
698900.00	4351600.00	.000143	698900.00	4351700.00	.000176
698900.00	4351800.00	.000223	698900.00	4351900.00	.000303
698900.00	4352000.00	.000427	698900.00	4352100.00	.000625
698900.00	4352200.00	.001173	698900.00	4352300.00	.002324
698900.00	4352400.00	.002325	698900.00	4352500.00	.001244
698900.00	4352600.00	.000739	698900.00	4352700.00	.000500
698900.00	4352800.00	.000372	698900.00	4352900.00	.000281
698900.00	4353000.00	.000220	698900.00	4353100.00	.000184
698900.00	4353200.00	.000155	698900.00	4353300.00	.000132
699000.00	4351300.00	.000088	699000.00	4351400.00	.000103
699000.00	4351500.00	.000123	699000.00	4351600.00	.000151
699000.00	4351700.00	.000189	699000.00	4351800.00	.000247
699000.00	4351900.00	.000336	699000.00	4352000.00	.000481
699000.00	4352100.00	.000771	699000.00	4352200.00	.001420
699000.00	4352300.00	.004045	699000.00	4352400.00	.005903
699000.00	4352500.00	.002211	699000.00	4352600.00	.001126
699000.00	4352700.00	.000693	699000.00	4352800.00	.000482
699000.00	4352900.00	.000361	699000.00	4353000.00	.000278
699000.00	4353100.00	.000221	699000.00	4353200.00	.000180
699000.00	4353300.00	.000150	699100.00	4351300.00	.000088
699100.00	4351400.00	.000103	699100.00	4351500.00	.000125
699100.00	4351600.00	.000153	699100.00	4351700.00	.000194
699100.00	4351800.00	.000257	699100.00	4351900.00	.000357
699100.00	4352000.00	.000535	699100.00	4352100.00	.000900
699100.00	4352200.00	.001883	699100.00	4352300.00	.006341
699100.00	4352400.00	.043333	699100.00	4352500.00	.004899

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 67 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.001958	699100.00	4352700.00	.001036
699100.00	4352800.00	.000649	699100.00	4352900.00	.000447
699100.00	4353000.00	.000329	699100.00	4353100.00	.000253
699100.00	4353200.00	.000202	699100.00	4353300.00	.000166
699200.00	4351300.00	.000095	699200.00	4351400.00	.000113
699200.00	4351500.00	.000137	699200.00	4351600.00	.000170
699200.00	4351700.00	.000219	699200.00	4351800.00	.000294
699200.00	4351900.00	.000419	699200.00	4352000.00	.000648
699200.00	4352100.00	.001146	699200.00	4352200.00	.002605
699200.00	4352300.00	.011372	699200.00	4352400.00	.087270
699200.00	4352500.00	.013504	699200.00	4352600.00	.003534
699200.00	4352700.00	.001589	699200.00	4352800.00	.000909
699200.00	4352900.00	.000590	699200.00	4353000.00	.000416
699200.00	4353100.00	.000310	699200.00	4353200.00	.000242
699200.00	4353300.00	.000195	699300.00	4351300.00	.000107
699300.00	4351400.00	.000128	699300.00	4351500.00	.000156
699300.00	4351600.00	.000196	699300.00	4351700.00	.000253
699300.00	4351800.00	.000342	699300.00	4351900.00	.000488
699300.00	4352000.00	.000748	699300.00	4352100.00	.001381
699300.00	4352200.00	.002992	699300.00	4352300.00	.007396
699300.00	4352400.00	.012745	699300.00	4352500.00	.008937
699300.00	4352600.00	.004087	699300.00	4352700.00	.001980
699300.00	4352800.00	.001120	699300.00	4352900.00	.000729
699300.00	4353000.00	.000510	699300.00	4353100.00	.000376
699300.00	4353200.00	.000290	699300.00	4353300.00	.000231
699400.00	4351300.00	.000116	699400.00	4351400.00	.000138
699400.00	4351500.00	.000169	699400.00	4351600.00	.000211
699400.00	4351700.00	.000270	699400.00	4351800.00	.000365
699400.00	4351900.00	.000542	699400.00	4352000.00	.000845
699400.00	4352100.00	.001389	699400.00	4352200.00	.002416
699400.00	4352300.00	.003985	699400.00	4352400.00	.005114
699400.00	4352500.00	.004648	699400.00	4352600.00	.003170
699400.00	4352700.00	.001969	699400.00	4352800.00	.001230
699400.00	4352900.00	.000809	699400.00	4353000.00	.000558
699400.00	4353100.00	.000416	699400.00	4353200.00	.000323
699400.00	4353300.00	.000257	699500.00	4351300.00	.000122
699500.00	4351400.00	.000145	699500.00	4351500.00	.000175
699500.00	4351600.00	.000223	699500.00	4351700.00	.000295
699500.00	4351800.00	.000402	699500.00	4351900.00	.000564
699500.00	4352000.00	.000813	699500.00	4352100.00	.001213

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 67 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.001783	699500.00	4352300.00	.002426
699500.00	4352400.00	.002811	699500.00	4352500.00	.002737
699500.00	4352600.00	.002227	699500.00	4352700.00	.001655
699500.00	4352800.00	.001174	699500.00	4352900.00	.000829
699500.00	4353000.00	.000601	699500.00	4353100.00	.000449
699500.00	4353200.00	.000344	699500.00	4353300.00	.000273
699600.00	4351300.00	.000126	699600.00	4351400.00	.000154
699600.00	4351500.00	.000190	699600.00	4351600.00	.000241
699600.00	4351700.00	.000310	699600.00	4351800.00	.000405
699600.00	4351900.00	.000539	699600.00	4352000.00	.000737
699600.00	4352100.00	.001003	699600.00	4352200.00	.001322
699600.00	4352300.00	.001628	699600.00	4352400.00	.001801
699600.00	4352500.00	.001798	699600.00	4352600.00	.001602
699600.00	4352700.00	.001304	699600.00	4352800.00	.001028
699600.00	4352900.00	.000786	699600.00	4353000.00	.000598
699600.00	4353100.00	.000463	699600.00	4353200.00	.000364
699600.00	4353300.00	.000291	699700.00	4351300.00	.000136
699700.00	4351400.00	.000164	699700.00	4351500.00	.000199
699700.00	4351600.00	.000246	699700.00	4351700.00	.000308
699700.00	4351800.00	.000389	699700.00	4351900.00	.000500
699700.00	4352000.00	.000644	699700.00	4352100.00	.000818
699700.00	4352200.00	.001007	699700.00	4352300.00	.001170
699700.00	4352400.00	.001262	699700.00	4352500.00	.001273
699700.00	4352600.00	.001188	699700.00	4352700.00	.001031
699700.00	4352800.00	.000860	699700.00	4352900.00	.000708
699700.00	4353000.00	.000570	699700.00	4353100.00	.000455
699700.00	4353200.00	.000367	699700.00	4353300.00	.000301
699800.00	4351300.00	.000142	699800.00	4351400.00	.000169
699800.00	4351500.00	.000202	699800.00	4351600.00	.000243
699800.00	4351700.00	.000297	699800.00	4351800.00	.000367
699800.00	4351900.00	.000455	699800.00	4352000.00	.000558
699800.00	4352100.00	.000672	699800.00	4352200.00	.000789
699800.00	4352300.00	.000884	699800.00	4352400.00	.000938
699800.00	4352500.00	.000951	699800.00	4352600.00	.000910
699800.00	4352700.00	.000827	699800.00	4352800.00	.000721
699800.00	4352900.00	.000617	699800.00	4353000.00	.000523
699800.00	4353100.00	.000435	699800.00	4353200.00	.000360
699800.00	4353300.00	.000302	699900.00	4351300.00	.000145
699900.00	4351400.00	.000169	699900.00	4351500.00	.000200
699900.00	4351600.00	.000236	699900.00	4351700.00	.000283

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 67 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000340	699900.00	4351900.00	.000407
699900.00	4352000.00	.000483	699900.00	4352100.00	.000562
699900.00	4352200.00	.000637	699900.00	4352300.00	.000695
699900.00	4352400.00	.000731	699900.00	4352500.00	.000742
699900.00	4352600.00	.000722	699900.00	4352700.00	.000678
699900.00	4352800.00	.000609	699900.00	4352900.00	.000537
699900.00	4353000.00	.000467	699900.00	4353100.00	.000405
699900.00	4353200.00	.000348	699900.00	4353300.00	.000296
700000.00	4351300.00	.000145	700000.00	4351400.00	.000167
700000.00	4351500.00	.000194	700000.00	4351600.00	.000227
700000.00	4351700.00	.000267	700000.00	4351800.00	.000312
700000.00	4351900.00	.000363	700000.00	4352000.00	.000419
700000.00	4352100.00	.000476	700000.00	4352200.00	.000526
700000.00	4352300.00	.000565	700000.00	4352400.00	.000589
700000.00	4352500.00	.000599	700000.00	4352600.00	.000588
700000.00	4352700.00	.000562	700000.00	4352800.00	.000519
700000.00	4352900.00	.000467	700000.00	4353000.00	.000417
700000.00	4353100.00	.000371	700000.00	4353200.00	.000328
700000.00	4353300.00	.000287	700100.00	4351300.00	.000143
700100.00	4351400.00	.000163	700100.00	4351500.00	.000188
700100.00	4351600.00	.000217	700100.00	4351700.00	.000250
700100.00	4351800.00	.000286	700100.00	4351900.00	.000326
700100.00	4352000.00	.000367	700100.00	4352100.00	.000407
700100.00	4352200.00	.000442	700100.00	4352300.00	.000470
700100.00	4352400.00	.000487	700100.00	4352500.00	.000495
700100.00	4352600.00	.000489	700100.00	4352700.00	.000472
700100.00	4352800.00	.000447	700100.00	4352900.00	.000411
700100.00	4353000.00	.000374	700100.00	4353100.00	.000337
700100.00	4353200.00	.000303	700100.00	4353300.00	.000272
700200.00	4351300.00	.000139	700200.00	4351400.00	.000158
700200.00	4351500.00	.000180	700200.00	4351600.00	.000205
700200.00	4351700.00	.000232	700200.00	4351800.00	.000262
700200.00	4351900.00	.000293	700200.00	4352000.00	.000325
700200.00	4352100.00	.000354	700200.00	4352200.00	.000379
700200.00	4352300.00	.000399	700200.00	4352400.00	.000412
700200.00	4352500.00	.000418	700200.00	4352600.00	.000416
700200.00	4352700.00	.000405	700200.00	4352800.00	.000389
700200.00	4352900.00	.000364	700200.00	4353000.00	.000336
700200.00	4353100.00	.000307	700200.00	4353200.00	.000280
700200.00	4353300.00	.000254	700300.00	4351300.00	.000135

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 67 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000153	700300.00	4351500.00	.000172
700300.00	4351600.00	.000192	700300.00	4351700.00	.000215
700300.00	4351800.00	.000239	700300.00	4351900.00	.000264
700300.00	4352000.00	.000289	700300.00	4352100.00	.000311
700300.00	4352200.00	.000330	700300.00	4352300.00	.000345
700300.00	4352400.00	.000355	700300.00	4352500.00	.000360
700300.00	4352600.00	.000359	700300.00	4352700.00	.000352
700300.00	4352800.00	.000341	700300.00	4352900.00	.000324
700300.00	4353000.00	.000302	700300.00	4353100.00	.000280
700300.00	4353200.00	.000258	700300.00	4353300.00	.000236
700400.00	4351300.00	.000131	700400.00	4351400.00	.000146
700400.00	4351500.00	.000163	700400.00	4351600.00	.000180
700400.00	4351700.00	.000199	700400.00	4351800.00	.000219
700400.00	4351900.00	.000239	700400.00	4352000.00	.000258
700400.00	4352100.00	.000276	700400.00	4352200.00	.000290
700400.00	4352300.00	.000302	700400.00	4352400.00	.000310
700400.00	4352500.00	.000314	700400.00	4352600.00	.000314
700400.00	4352700.00	.000310	700400.00	4352800.00	.000301
700400.00	4352900.00	.000290	700400.00	4353000.00	.000273
700400.00	4353100.00	.000255	700400.00	4353200.00	.000237
700400.00	4353300.00	.000219			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 68 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000270	698400.00	4351400.00	.000347
698400.00	4351500.00	.000439	698400.00	4351600.00	.000547
698400.00	4351700.00	.000609	698400.00	4351800.00	.000630
698400.00	4351900.00	.000626	698400.00	4352000.00	.000578
698400.00	4352100.00	.000492	698400.00	4352200.00	.000399
698400.00	4352300.00	.000317	698400.00	4352400.00	.000274
698400.00	4352500.00	.000232	698400.00	4352600.00	.000196
698400.00	4352700.00	.000165	698400.00	4352800.00	.000149
698400.00	4352900.00	.000137	698400.00	4353000.00	.000126
698400.00	4353100.00	.000116	698400.00	4353200.00	.000106
698400.00	4353300.00	.000098	698500.00	4351300.00	.000266
698500.00	4351400.00	.000360	698500.00	4351500.00	.000479
698500.00	4351600.00	.000623	698500.00	4351700.00	.000759
698500.00	4351800.00	.000798	698500.00	4351900.00	.000799
698500.00	4352000.00	.000728	698500.00	4352100.00	.000600
698500.00	4352200.00	.000462	698500.00	4352300.00	.000374
698500.00	4352400.00	.000312	698500.00	4352500.00	.000257
698500.00	4352600.00	.000210	698500.00	4352700.00	.000185
698500.00	4352800.00	.000168	698500.00	4352900.00	.000153
698500.00	4353000.00	.000139	698500.00	4353100.00	.000126
698500.00	4353200.00	.000115	698500.00	4353300.00	.000105
698600.00	4351300.00	.000288	698600.00	4351400.00	.000356
698600.00	4351500.00	.000508	698600.00	4351600.00	.000705
698600.00	4351700.00	.000950	698600.00	4351800.00	.001053
698600.00	4351900.00	.001066	698600.00	4352000.00	.000957
698600.00	4352100.00	.000753	698600.00	4352200.00	.000545
698600.00	4352300.00	.000445	698600.00	4352400.00	.000354
698600.00	4352500.00	.000280	698600.00	4352600.00	.000241
698600.00	4352700.00	.000214	698600.00	4352800.00	.000190
698600.00	4352900.00	.000169	698600.00	4353000.00	.000151
698600.00	4353100.00	.000136	698600.00	4353200.00	.000122
698600.00	4353300.00	.000111	698700.00	4351300.00	.000322
698700.00	4351400.00	.000393	698700.00	4351500.00	.000509
698700.00	4351600.00	.000780	698700.00	4351700.00	.001146
698700.00	4351800.00	.001454	698700.00	4351900.00	.001502
698700.00	4352000.00	.001319	698700.00	4352100.00	.000964
698700.00	4352200.00	.000692	698700.00	4352300.00	.000530
698700.00	4352400.00	.000397	698700.00	4352500.00	.000330
698700.00	4352600.00	.000286	698700.00	4352700.00	.000246
698700.00	4352800.00	.000213	698700.00	4352900.00	.000186

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 68 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000164	698700.00	4353100.00	.000146
698700.00	4353200.00	.000134	698700.00	4353300.00	.000123
698800.00	4351300.00	.000353	698800.00	4351400.00	.000447
698800.00	4351500.00	.000575	698800.00	4351600.00	.000799
698800.00	4351700.00	.001356	698800.00	4351800.00	.002129
698800.00	4351900.00	.002294	698800.00	4352000.00	.001946
698800.00	4352100.00	.001248	698800.00	4352200.00	.000888
698800.00	4352300.00	.000618	698800.00	4352400.00	.000489
698800.00	4352500.00	.000403	698800.00	4352600.00	.000334
698800.00	4352700.00	.000279	698800.00	4352800.00	.000236
698800.00	4352900.00	.000205	698800.00	4353000.00	.000184
698800.00	4353100.00	.000166	698800.00	4353200.00	.000150
698800.00	4353300.00	.000136	698900.00	4351300.00	.000374
698900.00	4351400.00	.000492	698900.00	4351500.00	.000668
698900.00	4351600.00	.000933	698900.00	4351700.00	.001458
698900.00	4351800.00	.002922	698900.00	4351900.00	.003989
698900.00	4352000.00	.003192	698900.00	4352100.00	.001802
698900.00	4352200.00	.001116	698900.00	4352300.00	.000807
698900.00	4352400.00	.000621	698900.00	4352500.00	.000482
698900.00	4352600.00	.000382	698900.00	4352700.00	.000323
698900.00	4352800.00	.000276	698900.00	4352900.00	.000239
698900.00	4353000.00	.000209	698900.00	4353100.00	.000185
698900.00	4353200.00	.000165	698900.00	4353300.00	.000148
699000.00	4351300.00	.000410	699000.00	4351400.00	.000539
699000.00	4351500.00	.000736	699000.00	4351600.00	.001102
699000.00	4351700.00	.001802	699000.00	4351800.00	.003641
699000.00	4351900.00	.008846	699000.00	4352000.00	.006224
699000.00	4352100.00	.002727	699000.00	4352200.00	.001619
699000.00	4352300.00	.001083	699000.00	4352400.00	.000771
699000.00	4352500.00	.000600	699000.00	4352600.00	.000476
699000.00	4352700.00	.000387	699000.00	4352800.00	.000322
699000.00	4352900.00	.000271	699000.00	4353000.00	.000233
699000.00	4353100.00	.000204	699000.00	4353200.00	.000180
699000.00	4353300.00	.000160	699100.00	4351300.00	.000430
699100.00	4351400.00	.000578	699100.00	4351500.00	.000821
699100.00	4351600.00	.001264	699100.00	4351700.00	.002222
699100.00	4351800.00	.005056	699100.00	4351900.00	.023996
699100.00	4352000.00	.016972	699100.00	4352100.00	.005073
699100.00	4352200.00	.002538	699100.00	4352300.00	.001543
699100.00	4352400.00	.001037	699100.00	4352500.00	.000747

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 68 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000565	699100.00	4352700.00	.000445
699100.00	4352800.00	.000361	699100.00	4352900.00	.000300
699100.00	4353000.00	.000254	699100.00	4353100.00	.000220
699100.00	4353200.00	.000193	699100.00	4353300.00	.000170
699200.00	4351300.00	.000457	699200.00	4351400.00	.000622
699200.00	4351500.00	.000902	699200.00	4351600.00	.001440
699200.00	4351700.00	.002726	699200.00	4351800.00	.007317
699200.00	4351900.00	.059702	699200.00	4352000.00	.122332
699200.00	4352100.00	.011957	699200.00	4352200.00	.004213
699200.00	4352300.00	.002172	699200.00	4352400.00	.001343
699200.00	4352500.00	.000919	699200.00	4352600.00	.000672
699200.00	4352700.00	.000516	699200.00	4352800.00	.000411
699200.00	4352900.00	.000336	699200.00	4353000.00	.000282
699200.00	4353100.00	.000242	699200.00	4353200.00	.000210
699200.00	4353300.00	.000185	699300.00	4351300.00	.000548
699300.00	4351400.00	.000757	699300.00	4351500.00	.001113
699300.00	4351600.00	.001793	699300.00	4351700.00	.003518
699300.00	4351800.00	.009069	699300.00	4351900.00	.027292
699300.00	4352000.00	.035133	699300.00	4352100.00	.014765
699300.00	4352200.00	.005846	699300.00	4352300.00	.002946
699300.00	4352400.00	.001788	699300.00	4352500.00	.001196
699300.00	4352600.00	.000855	699300.00	4352700.00	.000644
699300.00	4352800.00	.000504	699300.00	4352900.00	.000406
699300.00	4353000.00	.000336	699300.00	4353100.00	.000285
699300.00	4353200.00	.000245	699300.00	4353300.00	.000213
699400.00	4351300.00	.000595	699400.00	4351400.00	.000812
699400.00	4351500.00	.001243	699400.00	4351600.00	.002041
699400.00	4351700.00	.003582	699400.00	4351800.00	.006732
699400.00	4351900.00	.011258	699400.00	4352000.00	.012828
699400.00	4352100.00	.009406	699400.00	4352200.00	.005629
699400.00	4352300.00	.003265	699400.00	4352400.00	.002022
699400.00	4352500.00	.001334	699400.00	4352600.00	.000964
699400.00	4352700.00	.000730	699400.00	4352800.00	.000571
699400.00	4352900.00	.000459	699400.00	4353000.00	.000379
699400.00	4353100.00	.000320	699400.00	4353200.00	.000274
699400.00	4353300.00	.000238	699500.00	4351300.00	.000648
699500.00	4351400.00	.000906	699500.00	4351500.00	.001310
699500.00	4351600.00	.001954	699500.00	4351700.00	.003033
699500.00	4351800.00	.004561	699500.00	4351900.00	.006099
699500.00	4352000.00	.006657	699500.00	4352100.00	.005848

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 68 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.004341	699500.00	4352300.00	.003036
699500.00	4352400.00	.002063	699500.00	4352500.00	.001445
699500.00	4352600.00	.001046	699500.00	4352700.00	.000783
699500.00	4352800.00	.000612	699500.00	4352900.00	.000495
699500.00	4353000.00	.000411	699500.00	4353100.00	.000347
699500.00	4353200.00	.000297	699500.00	4353300.00	.000258
699600.00	4351300.00	.000684	699600.00	4351400.00	.000912
699600.00	4351500.00	.001244	699600.00	4351600.00	.001742
699600.00	4351700.00	.002414	699600.00	4351800.00	.003200
699600.00	4351900.00	.003859	699600.00	4352000.00	.004123
699600.00	4352100.00	.003879	699600.00	4352200.00	.003229
699600.00	4352300.00	.002527	699600.00	4352400.00	.001920
699600.00	4352500.00	.001424	699600.00	4352600.00	.001078
699600.00	4352700.00	.000832	699600.00	4352800.00	.000654
699600.00	4352900.00	.000525	699600.00	4353000.00	.000432
699600.00	4353100.00	.000367	699600.00	4353200.00	.000315
699600.00	4353300.00	.000273	699700.00	4351300.00	.000680
699700.00	4351400.00	.000872	699700.00	4351500.00	.001140
699700.00	4351600.00	.001492	699700.00	4351700.00	.001909
699700.00	4351800.00	.002345	699700.00	4351900.00	.002676
699700.00	4352000.00	.002822	699700.00	4352100.00	.002738
699700.00	4352200.00	.002444	699700.00	4352300.00	.002045
699700.00	4352400.00	.001667	699700.00	4352500.00	.001339
699700.00	4352600.00	.001054	699700.00	4352700.00	.000838
699700.00	4352800.00	.000674	699700.00	4352900.00	.000552
699700.00	4353000.00	.000459	699700.00	4353100.00	.000386
699700.00	4353200.00	.000327	699700.00	4353300.00	.000284
699800.00	4351300.00	.000653	699800.00	4351400.00	.000817
699800.00	4351500.00	.001022	699800.00	4351600.00	.001262
699800.00	4351700.00	.001529	699800.00	4351800.00	.001787
699800.00	4351900.00	.001974	699800.00	4352000.00	.002063
699800.00	4352100.00	.002035	699800.00	4352200.00	.001894
699800.00	4352300.00	.001662	699800.00	4352400.00	.001422
699800.00	4352500.00	.001199	699800.00	4352600.00	.000998
699800.00	4352700.00	.000815	699800.00	4352800.00	.000673
699800.00	4352900.00	.000562	699800.00	4353000.00	.000473
699800.00	4353100.00	.000402	699800.00	4353200.00	.000345
699800.00	4353300.00	.000298	699900.00	4351300.00	.000619
699900.00	4351400.00	.000752	699900.00	4351500.00	.000905
699900.00	4351600.00	.001076	699900.00	4351700.00	.001253

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 68 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.001410	699900.00	4351900.00	.001524
699900.00	4352000.00	.001583	699900.00	4352100.00	.001576
699900.00	4352200.00	.001504	699900.00	4352300.00	.001374
699900.00	4352400.00	.001213	699900.00	4352500.00	.001055
699900.00	4352600.00	.000909	699900.00	4352700.00	.000779
699900.00	4352800.00	.000657	699900.00	4352900.00	.000558
699900.00	4353000.00	.000477	699900.00	4353100.00	.000410
699900.00	4353200.00	.000354	699900.00	4353300.00	.000308
700000.00	4351300.00	.000580	700000.00	4351400.00	.000683
700000.00	4351500.00	.000799	700000.00	4351600.00	.000923
700000.00	4351700.00	.001045	700000.00	4351800.00	.001149
700000.00	4351900.00	.001224	700000.00	4352000.00	.001265
700000.00	4352100.00	.001266	700000.00	4352200.00	.001225
700000.00	4352300.00	.001150	700000.00	4352400.00	.001040
700000.00	4352500.00	.000927	700000.00	4352600.00	.000819
700000.00	4352700.00	.000723	700000.00	4352800.00	.000633
700000.00	4352900.00	.000545	700000.00	4353000.00	.000472
700000.00	4353100.00	.000410	700000.00	4353200.00	.000358
700000.00	4353300.00	.000314	700100.00	4351300.00	.000539
700100.00	4351400.00	.000620	700100.00	4351500.00	.000707
700100.00	4351600.00	.000798	700100.00	4351700.00	.000883
700100.00	4351800.00	.000956	700100.00	4351900.00	.001008
700100.00	4352000.00	.001038	700100.00	4352100.00	.001042
700100.00	4352200.00	.001018	700100.00	4352300.00	.000970
700100.00	4352400.00	.000900	700100.00	4352500.00	.000819
700100.00	4352600.00	.000739	700100.00	4352700.00	.000663
700100.00	4352800.00	.000593	700100.00	4352900.00	.000526
700100.00	4353000.00	.000461	700100.00	4353100.00	.000405
700100.00	4353200.00	.000357	700100.00	4353300.00	.000315
700200.00	4351300.00	.000498	700200.00	4351400.00	.000563
700200.00	4351500.00	.000631	700200.00	4351600.00	.000698
700200.00	4351700.00	.000759	700200.00	4351800.00	.000810
700200.00	4351900.00	.000848	700200.00	4352000.00	.000870
700200.00	4352100.00	.000875	700200.00	4352200.00	.000862
700200.00	4352300.00	.000833	700200.00	4352400.00	.000789
700200.00	4352500.00	.000729	700200.00	4352600.00	.000667
700200.00	4352700.00	.000607	700200.00	4352800.00	.000550
700200.00	4352900.00	.000497	700200.00	4353000.00	.000446
700200.00	4353100.00	.000396	700200.00	4353200.00	.000352
700200.00	4353300.00	.000314	700300.00	4351300.00	.000460

** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 68 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000512	700300.00	4351500.00	.000566
700300.00	4351600.00	.000616	700300.00	4351700.00	.000662
700300.00	4351800.00	.000700	700300.00	4351900.00	.000729
700300.00	4352000.00	.000746	700300.00	4352100.00	.000752
700300.00	4352200.00	.000744	700300.00	4352300.00	.000724
700300.00	4352400.00	.000695	700300.00	4352500.00	.000651
700300.00	4352600.00	.000603	700300.00	4352700.00	.000555
700300.00	4352800.00	.000509	700300.00	4352900.00	.000464
700300.00	4353000.00	.000423	700300.00	4353100.00	.000384
700300.00	4353200.00	.000344	700300.00	4353300.00	.000309
700400.00	4351300.00	.000424	700400.00	4351400.00	.000466
700400.00	4351500.00	.000509	700400.00	4351600.00	.000548
700400.00	4351700.00	.000583	700400.00	4351800.00	.000613
700400.00	4351900.00	.000635	700400.00	4352000.00	.000649
700400.00	4352100.00	.000654	700400.00	4352200.00	.000649
700400.00	4352300.00	.000635	700400.00	4352400.00	.000614
700400.00	4352500.00	.000584	700400.00	4352600.00	.000547
700400.00	4352700.00	.000508	700400.00	4352800.00	.000470
700400.00	4352900.00	.000433	700400.00	4353000.00	.000399
700400.00	4353100.00	.000366	700400.00	4353200.00	.000335
700400.00	4353300.00	.000303			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 69 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.003471	698400.00	4351400.00	.003753
698400.00	4351500.00	.004426	698400.00	4351600.00	.005192
698400.00	4351700.00	.006060	698400.00	4351800.00	.007037
698400.00	4351900.00	.008125	698400.00	4352000.00	.009323
698400.00	4352100.00	.010618	698400.00	4352200.00	.011208
698400.00	4352300.00	.011514	698400.00	4352400.00	.011679
698400.00	4352500.00	.011679	698400.00	4352600.00	.011498
698400.00	4352700.00	.010808	698400.00	4352800.00	.009844
698400.00	4352900.00	.008803	698400.00	4353000.00	.007724
698400.00	4353100.00	.006644	698400.00	4353200.00	.005884
698400.00	4353300.00	.005375	698500.00	4351300.00	.003662
698500.00	4351400.00	.003962	698500.00	4351500.00	.004314
698500.00	4351600.00	.005159	698500.00	4351700.00	.006133
698500.00	4351800.00	.007248	698500.00	4351900.00	.008512
698500.00	4352000.00	.009927	698500.00	4352100.00	.011484
698500.00	4352200.00	.012701	698500.00	4352300.00	.013134
698500.00	4352400.00	.013385	698500.00	4352500.00	.013419
698500.00	4352600.00	.013209	698500.00	4352700.00	.012345
698500.00	4352800.00	.011129	698500.00	4352900.00	.009816
698500.00	4353000.00	.008465	698500.00	4353100.00	.007125
698500.00	4353200.00	.006461	698500.00	4353300.00	.005836
698600.00	4351300.00	.003853	698600.00	4351400.00	.004197
698600.00	4351500.00	.004575	698600.00	4351600.00	.005023
698600.00	4351700.00	.006110	698600.00	4351800.00	.007378
698600.00	4351900.00	.008846	698600.00	4352000.00	.010523
698600.00	4352100.00	.012409	698600.00	4352200.00	.014482
698600.00	4352300.00	.015134	698600.00	4352400.00	.015521
698600.00	4352500.00	.015615	698600.00	4352600.00	.015375
698600.00	4352700.00	.014268	698600.00	4352800.00	.012698
698600.00	4352900.00	.011009	698600.00	4353000.00	.009284
698600.00	4353100.00	.007920	698600.00	4353200.00	.007110
698600.00	4353300.00	.006335	698700.00	4351300.00	.004039
698700.00	4351400.00	.004431	698700.00	4351500.00	.004869
698700.00	4351600.00	.005357	698700.00	4351700.00	.005941
698700.00	4351800.00	.007375	698700.00	4351900.00	.009075
698700.00	4352000.00	.011067	698700.00	4352100.00	.013364
698700.00	4352200.00	.015955	698700.00	4352300.00	.017665
698700.00	4352400.00	.018343	698700.00	4352500.00	.018580
698700.00	4352600.00	.018285	698700.00	4352700.00	.016821
698700.00	4352800.00	.014729	698700.00	4352900.00	.012465

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 69 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.010175	698700.00	4353100.00	.008869
698700.00	4353200.00	.007832	698700.00	4353300.00	.006866
698800.00	4351300.00	.004214	698800.00	4351400.00	.004657
698800.00	4351500.00	.005161	698800.00	4351600.00	.005733
698800.00	4351700.00	.006380	698800.00	4351800.00	.007163
698800.00	4351900.00	.009118	698800.00	4352000.00	.011479
698800.00	4352100.00	.014328	698800.00	4352200.00	.017686
698800.00	4352300.00	.021078	698800.00	4352400.00	.022156
698800.00	4352500.00	.022602	698800.00	4352600.00	.022256
698800.00	4352700.00	.020247	698800.00	4352800.00	.017356
698800.00	4352900.00	.014248	698800.00	4353000.00	.011479
698800.00	4353100.00	.010012	698800.00	4353200.00	.008627
698800.00	4353300.00	.007408	698900.00	4351300.00	.004371
698900.00	4351400.00	.004865	698900.00	4351500.00	.005438
698900.00	4351600.00	.006102	698900.00	4351700.00	.006871
698900.00	4351800.00	.007757	698900.00	4351900.00	.008848
698900.00	4352000.00	.011686	698900.00	4352100.00	.015254
698900.00	4352200.00	.019581	698900.00	4352300.00	.024648
698900.00	4352400.00	.027324	698900.00	4352500.00	.028172
698900.00	4352600.00	.027782	698900.00	4352700.00	.024912
698900.00	4352800.00	.020751	698900.00	4352900.00	.016328
698900.00	4353000.00	.013377	698900.00	4353100.00	.011360
698900.00	4353200.00	.009528	698900.00	4353300.00	.007934
699000.00	4351300.00	.004498	699000.00	4351400.00	.005043
699000.00	4351500.00	.005686	699000.00	4351600.00	.006446
699000.00	4351700.00	.007349	699000.00	4351800.00	.008419
699000.00	4351900.00	.009726	699000.00	4352000.00	.011417
699000.00	4352100.00	.015799	699000.00	4352200.00	.021400
699000.00	4352300.00	.028318	699000.00	4352400.00	.034601
699000.00	4352500.00	.036352	699000.00	4352600.00	.036010
699000.00	4352700.00	.031687	699000.00	4352800.00	.025315
699000.00	4352900.00	.018770	699000.00	4353000.00	.015684
699000.00	4353100.00	.012855	699000.00	4353200.00	.010417
699000.00	4353300.00	.008700	699100.00	4351300.00	.004607
699100.00	4351400.00	.005175	699100.00	4351500.00	.005883
699100.00	4351600.00	.006738	699100.00	4351700.00	.007778
699100.00	4351800.00	.009079	699100.00	4351900.00	.010745
699100.00	4352000.00	.012795	699100.00	4352100.00	.015477
699100.00	4352200.00	.022707	699100.00	4352300.00	.032367
699100.00	4352400.00	.044497	699100.00	4352500.00	.048952

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 69 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.048948	699100.00	4352700.00	.041936
699100.00	4352800.00	.031490	699100.00	4352900.00	.023323
699100.00	4353000.00	.018504	699100.00	4353100.00	.014392
699100.00	4353200.00	.011624	699100.00	4353300.00	.010263
699200.00	4351300.00	.004821	699200.00	4351400.00	.005398
699200.00	4351500.00	.006085	699200.00	4351600.00	.006942
699200.00	4351700.00	.008115	699200.00	4351800.00	.009666
699200.00	4351900.00	.011688	699200.00	4352000.00	.014308
699200.00	4352100.00	.017717	699200.00	4352200.00	.022460
699200.00	4352300.00	.035876	699200.00	4352400.00	.054604
699200.00	4352500.00	.069565	699200.00	4352600.00	.070899
699200.00	4352700.00	.058327	699200.00	4352800.00	.039511
699200.00	4352900.00	.029316	699200.00	4353000.00	.021627
699200.00	4353100.00	.016542	699200.00	4353200.00	.014111
699200.00	4353300.00	.012011	699300.00	4351300.00	.004998
699300.00	4351400.00	.005631	699300.00	4351500.00	.006398
699300.00	4351600.00	.007338	699300.00	4351700.00	.008519
699300.00	4351800.00	.010088	699300.00	4351900.00	.012402
699300.00	4352000.00	.015618	699300.00	4352100.00	.020161
699300.00	4352200.00	.026551	699300.00	4352300.00	.036099
699300.00	4352400.00	.065486	699300.00	4352500.00	.106346
699300.00	4352600.00	.113083	699300.00	4352700.00	.086848
699300.00	4352800.00	.053565	699300.00	4352900.00	.036646
699300.00	4353000.00	.025901	699300.00	4353100.00	.021000
699300.00	4353200.00	.016959	699300.00	4353300.00	.013847
699400.00	4351300.00	.005125	699400.00	4351400.00	.005803
699400.00	4351500.00	.006634	699400.00	4351600.00	.007669
699400.00	4351700.00	.009037	699400.00	4351800.00	.010868
699400.00	4351900.00	.013321	699400.00	4352000.00	.016717
699400.00	4352100.00	.021973	699400.00	4352200.00	.030672
699400.00	4352300.00	.044632	699400.00	4352400.00	.068876
699400.00	4352500.00	.156492	699400.00	4352600.00	.214084
699400.00	4352700.00	.142506	699400.00	4352800.00	.077161
699400.00	4352900.00	.047185	699400.00	4353000.00	.034883
699400.00	4353100.00	.025975	699400.00	4353200.00	.019832
699400.00	4353300.00	.016363	699500.00	4351300.00	.005195
699500.00	4351400.00	.005900	699500.00	4351500.00	.006772
699500.00	4351600.00	.007869	699500.00	4351700.00	.009360
699500.00	4351800.00	.011376	699500.00	4351900.00	.014154
699500.00	4352000.00	.018202	699500.00	4352100.00	.024366

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 69 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.034304	699500.00	4352300.00	.051614
699500.00	4352400.00	.091961	699500.00	4352500.00	.194026
699500.00	4352600.00	.576251	699500.00	4352700.00	.272364
699500.00	4352800.00	.118168	699500.00	4352900.00	.069716
699500.00	4353000.00	.045938	699500.00	4353100.00	.033672
699500.00	4353200.00	.025509	699500.00	4353300.00	.019950
699600.00	4351300.00	.005199	699600.00	4351400.00	.005911
699600.00	4351500.00	.006794	699600.00	4351600.00	.007913
699600.00	4351700.00	.009434	699600.00	4351800.00	.011515
699600.00	4351900.00	.014419	699600.00	4352000.00	.018734
699600.00	4352100.00	.025503	699600.00	4352200.00	.037011
699600.00	4352300.00	.059170	699600.00	4352400.00	.112546
699600.00	4352500.00	.302267	699600.00	4352600.00	2.658281
699600.00	4352700.00	.819057	699600.00	4352800.00	.233099
699600.00	4352900.00	.109104	699600.00	4353000.00	.063988
699600.00	4353100.00	.042480	699600.00	4353200.00	.030429
699600.00	4353300.00	.022969	699700.00	4351300.00	.005604
699700.00	4351400.00	.006407	699700.00	4351500.00	.007412
699700.00	4351600.00	.008701	699700.00	4351700.00	.010468
699700.00	4351800.00	.012909	699700.00	4351900.00	.016371
699700.00	4352000.00	.021635	699700.00	4352100.00	.030101
699700.00	4352200.00	.044987	699700.00	4352300.00	.074980
699700.00	4352400.00	.151369	699700.00	4352500.00	.464577
699700.00	4352600.00	3.562840	699700.00	4352700.00	2.409949
699700.00	4352800.00	.450654	699700.00	4352900.00	.176052
699700.00	4353000.00	.093157	699700.00	4353100.00	.057854
699700.00	4353200.00	.039554	699700.00	4353300.00	.028848
699800.00	4351300.00	.006199	699800.00	4351400.00	.007125
699800.00	4351500.00	.008291	699800.00	4351600.00	.009790
699800.00	4351700.00	.011852	699800.00	4351800.00	.014706
699800.00	4351900.00	.018759	699800.00	4352000.00	.024881
699800.00	4352100.00	.034667	699800.00	4352200.00	.051421
699800.00	4352300.00	.088290	699800.00	4352400.00	.177613
699800.00	4352500.00	.410649	699800.00	4352600.00	.855010
699800.00	4352700.00	.859722	699800.00	4352800.00	.450547
699800.00	4352900.00	.211472	699800.00	4353000.00	.113147
699800.00	4353100.00	.070328	699800.00	4353200.00	.048008
699800.00	4353300.00	.034763	699900.00	4351300.00	.006679
699900.00	4351400.00	.007691	699900.00	4351500.00	.008963
699900.00	4351600.00	.010592	699900.00	4351700.00	.012783

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 69 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.015813	699900.00	4351900.00	.020046
699900.00	4352000.00	.026233	699900.00	4352100.00	.038113
699900.00	4352200.00	.057936	699900.00	4352300.00	.092512
699900.00	4352400.00	.156030	699900.00	4352500.00	.262629
699900.00	4352600.00	.374450	699900.00	4352700.00	.389935
699900.00	4352800.00	.294444	699900.00	4352900.00	.193166
699900.00	4353000.00	.119696	699900.00	4353100.00	.077696
699900.00	4353200.00	.052877	699900.00	4353300.00	.038046
700000.00	4351300.00	.007044	700000.00	4351400.00	.008104
700000.00	4351500.00	.009426	700000.00	4351600.00	.011106
700000.00	4351700.00	.013281	700000.00	4351800.00	.016600
700000.00	4351900.00	.021738	700000.00	4352000.00	.029124
700000.00	4352100.00	.040253	700000.00	4352200.00	.057159
700000.00	4352300.00	.083654	700000.00	4352400.00	.123567
700000.00	4352500.00	.172934	700000.00	4352600.00	.213112
700000.00	4352700.00	.222403	700000.00	4352800.00	.194721
700000.00	4352900.00	.149256	700000.00	4353000.00	.109418
700000.00	4353100.00	.077014	700000.00	4353200.00	.055479
700000.00	4353300.00	.041111	700100.00	4351300.00	.007297
700100.00	4351400.00	.008369	700100.00	4351500.00	.009695
700100.00	4351600.00	.011688	700100.00	4351700.00	.014359
700100.00	4351800.00	.017988	700100.00	4351900.00	.022936
700100.00	4352000.00	.029708	700100.00	4352100.00	.039082
700100.00	4352200.00	.052711	700100.00	4352300.00	.071886
700100.00	4352400.00	.095574	700100.00	4352500.00	.120825
700100.00	4352600.00	.139006	700100.00	4352700.00	.144629
700100.00	4352800.00	.134987	700100.00	4352900.00	.113644
700100.00	4353000.00	.090906	700100.00	4353100.00	.071153
700100.00	4353200.00	.054015	700100.00	4353300.00	.041675
700200.00	4351300.00	.007496	700200.00	4351400.00	.008808
700200.00	4351500.00	.010441	700200.00	4351600.00	.012496
700200.00	4351700.00	.015108	700200.00	4351800.00	.018486
700200.00	4351900.00	.022988	700200.00	4352000.00	.028875
700200.00	4352100.00	.036747	700200.00	4352200.00	.047242
700200.00	4352300.00	.060220	700200.00	4352400.00	.074817
700200.00	4352500.00	.088868	700200.00	4352600.00	.098442
700200.00	4352700.00	.102049	700200.00	4352800.00	.098162
700200.00	4352900.00	.087889	700200.00	4353000.00	.074441
700200.00	4353100.00	.061683	700200.00	4353200.00	.050630
700200.00	4353300.00	.040420	700300.00	4351300.00	.008000

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 69 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.009313	700300.00	4351500.00	.010920
700300.00	4351600.00	.012903	700300.00	4351700.00	.015366
700300.00	4351800.00	.018440	700300.00	4351900.00	.022324
700300.00	4352000.00	.027408	700300.00	4352100.00	.033943
700300.00	4352200.00	.041698	700300.00	4352300.00	.050500
700300.00	4352400.00	.059771	700300.00	4352500.00	.068116
700300.00	4352600.00	.073719	700300.00	4352700.00	.076162
700300.00	4352800.00	.074523	700300.00	4352900.00	.069447
700300.00	4353000.00	.061415	700300.00	4353100.00	.053024
700300.00	4353200.00	.045178	700300.00	4353300.00	.038179
700400.00	4351300.00	.008325	700400.00	4351400.00	.009603
700400.00	4351500.00	.011143	700400.00	4351600.00	.013005
700400.00	4351700.00	.015267	700400.00	4351800.00	.018017
700400.00	4351900.00	.021424	700400.00	4352000.00	.025709
700400.00	4352100.00	.030811	700400.00	4352200.00	.036590
700400.00	4352300.00	.042839	700400.00	4352400.00	.049010
700400.00	4352500.00	.054219	700400.00	4352600.00	.057761
700400.00	4352700.00	.059481	700400.00	4352800.00	.058846
700400.00	4352900.00	.056063	700400.00	4353000.00	.051321
700400.00	4353100.00	.045591	700400.00	4353200.00	.039936
700400.00	4353300.00	.034717			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 72 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000069	698400.00	4351400.00	.000076
698400.00	4351500.00	.000085	698400.00	4351600.00	.000103
698400.00	4351700.00	.000131	698400.00	4351800.00	.000165
698400.00	4351900.00	.000206	698400.00	4352000.00	.000253
698400.00	4352100.00	.000278	698400.00	4352200.00	.000287
698400.00	4352300.00	.000286	698400.00	4352400.00	.000269
698400.00	4352500.00	.000232	698400.00	4352600.00	.000192
698400.00	4352700.00	.000152	698400.00	4352800.00	.000132
698400.00	4352900.00	.000113	698400.00	4353000.00	.000097
698400.00	4353100.00	.000083	698400.00	4353200.00	.000071
698400.00	4353300.00	.000066	698500.00	4351300.00	.000073
698500.00	4351400.00	.000082	698500.00	4351500.00	.000093
698500.00	4351600.00	.000105	698500.00	4351700.00	.000130
698500.00	4351800.00	.000172	698500.00	4351900.00	.000225
698500.00	4352000.00	.000287	698500.00	4352100.00	.000342
698500.00	4352200.00	.000358	698500.00	4352300.00	.000360
698500.00	4352400.00	.000334	698500.00	4352500.00	.000282
698500.00	4352600.00	.000224	698500.00	4352700.00	.000178
698500.00	4352800.00	.000151	698500.00	4352900.00	.000126
698500.00	4353000.00	.000105	698500.00	4353100.00	.000088
698500.00	4353200.00	.000081	698500.00	4353300.00	.000074
698600.00	4351300.00	.000076	698600.00	4351400.00	.000087
698600.00	4351500.00	.000100	698600.00	4351600.00	.000115
698600.00	4351700.00	.000135	698600.00	4351800.00	.000174
698600.00	4351900.00	.000240	698600.00	4352000.00	.000324
698600.00	4352100.00	.000426	698600.00	4352200.00	.000464
698600.00	4352300.00	.000470	698600.00	4352400.00	.000433
698600.00	4352500.00	.000352	698600.00	4352600.00	.000263
698600.00	4352700.00	.000211	698600.00	4352800.00	.000173
698600.00	4352900.00	.000139	698600.00	4353000.00	.000114
698600.00	4353100.00	.000102	698600.00	4353200.00	.000092
698600.00	4353300.00	.000082	698700.00	4351300.00	.000079
698700.00	4351400.00	.000091	698700.00	4351500.00	.000107
698700.00	4351600.00	.000126	698700.00	4351700.00	.000151
698700.00	4351800.00	.000181	698700.00	4351900.00	.000245
698700.00	4352000.00	.000360	698700.00	4352100.00	.000510
698700.00	4352200.00	.000625	698700.00	4352300.00	.000646
698700.00	4352400.00	.000586	698700.00	4352500.00	.000450
698700.00	4352600.00	.000321	698700.00	4352700.00	.000254
698700.00	4352800.00	.000196	698700.00	4352900.00	.000154

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 72 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000135	698700.00	4353100.00	.000118
698700.00	4353200.00	.000103	698700.00	4353300.00	.000091
698800.00	4351300.00	.000082	698800.00	4351400.00	.000095
698800.00	4351500.00	.000112	698800.00	4351600.00	.000136
698800.00	4351700.00	.000166	698800.00	4351800.00	.000207
698800.00	4351900.00	.000260	698800.00	4352000.00	.000379
698800.00	4352100.00	.000603	698800.00	4352200.00	.000885
698800.00	4352300.00	.000947	698800.00	4352400.00	.000844
698800.00	4352500.00	.000591	698800.00	4352600.00	.000414
698800.00	4352700.00	.000303	698800.00	4352800.00	.000224
698800.00	4352900.00	.000190	698800.00	4353000.00	.000160
698800.00	4353100.00	.000135	698800.00	4353200.00	.000115
698800.00	4353300.00	.000099	698900.00	4351300.00	.000087
698900.00	4351400.00	.000100	698900.00	4351500.00	.000118
698900.00	4351600.00	.000142	698900.00	4351700.00	.000179
698900.00	4351800.00	.000230	698900.00	4351900.00	.000304
698900.00	4352000.00	.000410	698900.00	4352100.00	.000671
698900.00	4352200.00	.001204	698900.00	4352300.00	.001536
698900.00	4352400.00	.001332	698900.00	4352500.00	.000790
698900.00	4352600.00	.000537	698900.00	4352700.00	.000361
698900.00	4352800.00	.000289	698900.00	4352900.00	.000231
698900.00	4353000.00	.000186	698900.00	4353100.00	.000152
698900.00	4353200.00	.000131	698900.00	4353300.00	.000114
699000.00	4351300.00	.000090	699000.00	4351400.00	.000105
699000.00	4351500.00	.000126	699000.00	4351600.00	.000154
699000.00	4351700.00	.000193	699000.00	4351800.00	.000248
699000.00	4351900.00	.000340	699000.00	4352000.00	.000495
699000.00	4352100.00	.000757	699000.00	4352200.00	.001542
699000.00	4352300.00	.002975	699000.00	4352400.00	.002466
699000.00	4352500.00	.001235	699000.00	4352600.00	.000694
699000.00	4352700.00	.000501	699000.00	4352800.00	.000364
699000.00	4352900.00	.000273	699000.00	4353000.00	.000223
699000.00	4353100.00	.000184	699000.00	4353200.00	.000155
699000.00	4353300.00	.000132	699100.00	4351300.00	.000092
699100.00	4351400.00	.000108	699100.00	4351500.00	.000131
699100.00	4351600.00	.000162	699100.00	4351700.00	.000206
699100.00	4351800.00	.000273	699100.00	4351900.00	.000380
699100.00	4352000.00	.000566	699100.00	4352100.00	.000940
699100.00	4352200.00	.001941	699100.00	4352300.00	.006934
699100.00	4352400.00	.006083	699100.00	4352500.00	.002011

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 72 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.001092	699100.00	4352700.00	.000685
699100.00	4352800.00	.000483	699100.00	4352900.00	.000356
699100.00	4353000.00	.000273	699100.00	4353100.00	.000217
699100.00	4353200.00	.000177	699100.00	4353300.00	.000147
699200.00	4351300.00	.000092	699200.00	4351400.00	.000108
699200.00	4351500.00	.000131	699200.00	4351600.00	.000163
699200.00	4351700.00	.000209	699200.00	4351800.00	.000280
699200.00	4351900.00	.000397	699200.00	4352000.00	.000613
699200.00	4352100.00	.001092	699200.00	4352200.00	.002596
699200.00	4352300.00	.013616	699200.00	4352400.00	.034460
699200.00	4352500.00	.004670	699200.00	4352600.00	.001790
699200.00	4352700.00	.000961	699200.00	4352800.00	.000609
699200.00	4352900.00	.000424	699200.00	4353000.00	.000314
699200.00	4353100.00	.000243	699200.00	4353200.00	.000195
699200.00	4353300.00	.000160	699300.00	4351300.00	.000103
699300.00	4351400.00	.000124	699300.00	4351500.00	.000151
699300.00	4351600.00	.000191	699300.00	4351700.00	.000249
699300.00	4351800.00	.000341	699300.00	4351900.00	.000497
699300.00	4352000.00	.000796	699300.00	4352100.00	.001480
699300.00	4352200.00	.003834	699300.00	4352300.00	.018127
699300.00	4352400.00	.037001	699300.00	4352500.00	.009018
699300.00	4352600.00	.002959	699300.00	4352700.00	.001456
699300.00	4352800.00	.000864	699300.00	4352900.00	.000573
699300.00	4353000.00	.000408	699300.00	4353100.00	.000307
699300.00	4353200.00	.000241	699300.00	4353300.00	.000194
699400.00	4351300.00	.000115	699400.00	4351400.00	.000138
699400.00	4351500.00	.000170	699400.00	4351600.00	.000215
699400.00	4351700.00	.000280	699400.00	4351800.00	.000383
699400.00	4351900.00	.000553	699400.00	4352000.00	.000917
699400.00	4352100.00	.001711	699400.00	4352200.00	.003574
699400.00	4352300.00	.007404	699400.00	4352400.00	.009496
699400.00	4352500.00	.006307	699400.00	4352600.00	.003226
699400.00	4352700.00	.001718	699400.00	4352800.00	.001009
699400.00	4352900.00	.000675	699400.00	4353000.00	.000482
699400.00	4353100.00	.000361	699400.00	4353200.00	.000281
699400.00	4353300.00	.000225	699500.00	4351300.00	.000124
699500.00	4351400.00	.000148	699500.00	4351500.00	.000182
699500.00	4351600.00	.000228	699500.00	4351700.00	.000296
699500.00	4351800.00	.000420	699500.00	4351900.00	.000621
699500.00	4352000.00	.000959	699500.00	4352100.00	.001550

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 72 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.002552	699500.00	4352300.00	.003762
699500.00	4352400.00	.004310	699500.00	4352500.00	.003694
699500.00	4352600.00	.002586	699500.00	4352700.00	.001679
699500.00	4352800.00	.001093	699500.00	4352900.00	.000742
699500.00	4353000.00	.000524	699500.00	4353100.00	.000393
699500.00	4353200.00	.000308	699500.00	4353300.00	.000247
699600.00	4351300.00	.000129	699600.00	4351400.00	.000154
699600.00	4351500.00	.000191	699600.00	4351600.00	.000247
699600.00	4351700.00	.000326	699600.00	4351800.00	.000442
699600.00	4351900.00	.000616	699600.00	4352000.00	.000880
699600.00	4352100.00	.001282	699600.00	4352200.00	.001791
699600.00	4352300.00	.002278	699600.00	4352400.00	.002497
699600.00	4352500.00	.002342	699600.00	4352600.00	.001893
699600.00	4352700.00	.001432	699600.00	4352800.00	.001040
699600.00	4352900.00	.000752	699600.00	4353000.00	.000556
699600.00	4353100.00	.000423	699600.00	4353200.00	.000328
699600.00	4353300.00	.000261	699700.00	4351300.00	.000136
699700.00	4351400.00	.000166	699700.00	4351500.00	.000206
699700.00	4351600.00	.000260	699700.00	4351700.00	.000333
699700.00	4351800.00	.000433	699700.00	4351900.00	.000573
699700.00	4352000.00	.000774	699700.00	4352100.00	.001024
699700.00	4352200.00	.001303	699700.00	4352300.00	.001535
699700.00	4352400.00	.001644	699700.00	4352500.00	.001598
699700.00	4352600.00	.001406	699700.00	4352700.00	.001152
699700.00	4352800.00	.000919	699700.00	4352900.00	.000714
699700.00	4353000.00	.000552	699700.00	4353100.00	.000433
699700.00	4353200.00	.000344	699700.00	4353300.00	.000279
699800.00	4351300.00	.000145	699800.00	4351400.00	.000175
699800.00	4351500.00	.000212	699800.00	4351600.00	.000261
699800.00	4351700.00	.000325	699800.00	4351800.00	.000409
699800.00	4351900.00	.000522	699800.00	4352000.00	.000661
699800.00	4352100.00	.000821	699800.00	4352200.00	.000984
699800.00	4352300.00	.001109	699800.00	4352400.00	.001172
699800.00	4352500.00	.001159	699800.00	4352600.00	.001072
699800.00	4352700.00	.000927	699800.00	4352800.00	.000779
699800.00	4352900.00	.000647	699800.00	4353000.00	.000527
699800.00	4353100.00	.000425	699800.00	4353200.00	.000346
699800.00	4353300.00	.000287	699900.00	4351300.00	.000150
699900.00	4351400.00	.000178	699900.00	4351500.00	.000212
699900.00	4351600.00	.000255	699900.00	4351700.00	.000310

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 72 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000382	699900.00	4351900.00	.000467
699900.00	4352000.00	.000565	699900.00	4352100.00	.000669
699900.00	4352200.00	.000768	699900.00	4352300.00	.000842
699900.00	4352400.00	.000881	699900.00	4352500.00	.000880
699900.00	4352600.00	.000836	699900.00	4352700.00	.000757
699900.00	4352800.00	.000662	699900.00	4352900.00	.000569
699900.00	4353000.00	.000485	699900.00	4353100.00	.000407
699900.00	4353200.00	.000340	699900.00	4353300.00	.000287
700000.00	4351300.00	.000151	700000.00	4351400.00	.000177
700000.00	4351500.00	.000208	700000.00	4351600.00	.000245
700000.00	4351700.00	.000293	700000.00	4351800.00	.000349
700000.00	4351900.00	.000414	700000.00	4352000.00	.000485
700000.00	4352100.00	.000557	700000.00	4352200.00	.000620
700000.00	4352300.00	.000667	700000.00	4352400.00	.000694
700000.00	4352500.00	.000696	700000.00	4352600.00	.000673
700000.00	4352700.00	.000628	700000.00	4352800.00	.000564
700000.00	4352900.00	.000499	700000.00	4353000.00	.000436
700000.00	4353100.00	.000381	700000.00	4353200.00	.000329
700000.00	4353300.00	.000281	700100.00	4351300.00	.000150
700100.00	4351400.00	.000173	700100.00	4351500.00	.000201
700100.00	4351600.00	.000235	700100.00	4351700.00	.000274
700100.00	4351800.00	.000318	700100.00	4351900.00	.000367
700100.00	4352000.00	.000419	700100.00	4352100.00	.000469
700100.00	4352200.00	.000512	700100.00	4352300.00	.000544
700100.00	4352400.00	.000563	700100.00	4352500.00	.000567
700100.00	4352600.00	.000554	700100.00	4352700.00	.000526
700100.00	4352800.00	.000484	700100.00	4352900.00	.000438
700100.00	4353000.00	.000392	700100.00	4353100.00	.000350
700100.00	4353200.00	.000311	700100.00	4353300.00	.000273
700200.00	4351300.00	.000147	700200.00	4351400.00	.000168
700200.00	4351500.00	.000193	700200.00	4351600.00	.000222
700200.00	4351700.00	.000254	700200.00	4351800.00	.000289
700200.00	4351900.00	.000327	700200.00	4352000.00	.000365
700200.00	4352100.00	.000401	700200.00	4352200.00	.000431
700200.00	4352300.00	.000454	700200.00	4352400.00	.000468
700200.00	4352500.00	.000472	700200.00	4352600.00	.000464
700200.00	4352700.00	.000447	700200.00	4352800.00	.000422
700200.00	4352900.00	.000388	700200.00	4353000.00	.000353
700200.00	4353100.00	.000320	700200.00	4353200.00	.000288
700200.00	4353300.00	.000259	700300.00	4351300.00	.000143

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 72 ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000162	700300.00	4351500.00	.000184
700300.00	4351600.00	.000209	700300.00	4351700.00	.000235
700300.00	4351800.00	.000264	700300.00	4351900.00	.000293
700300.00	4352000.00	.000322	700300.00	4352100.00	.000348
700300.00	4352200.00	.000371	700300.00	4352300.00	.000387
700300.00	4352400.00	.000398	700300.00	4352500.00	.000401
700300.00	4352600.00	.000397	700300.00	4352700.00	.000386
700300.00	4352800.00	.000370	700300.00	4352900.00	.000345
700300.00	4353000.00	.000319	700300.00	4353100.00	.000292
700300.00	4353200.00	.000266	700300.00	4353300.00	.000242
700400.00	4351300.00	.000139	700400.00	4351400.00	.000156
700400.00	4351500.00	.000175	700400.00	4351600.00	.000195
700400.00	4351700.00	.000217	700400.00	4351800.00	.000240
700400.00	4351900.00	.000264	700400.00	4352000.00	.000286
700400.00	4352100.00	.000306	700400.00	4352200.00	.000323
700400.00	4352300.00	.000336	700400.00	4352400.00	.000344
700400.00	4352500.00	.000347	700400.00	4352600.00	.000345
700400.00	4352700.00	.000337	700400.00	4352800.00	.000326
700400.00	4352900.00	.000309	700400.00	4353000.00	.000288
700400.00	4353100.00	.000267	700400.00	4353200.00	.000246
700400.00	4353300.00	.000226			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 73A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.000012	698400.00	4351400.00	.000013
698400.00	4351500.00	.000014	698400.00	4351600.00	.000015
698400.00	4351700.00	.000017	698400.00	4351800.00	.000018
698400.00	4351900.00	.000021	698400.00	4352000.00	.000025
698400.00	4352100.00	.000030	698400.00	4352200.00	.000036
698400.00	4352300.00	.000042	698400.00	4352400.00	.000049
698400.00	4352500.00	.000055	698400.00	4352600.00	.000056
698400.00	4352700.00	.000057	698400.00	4352800.00	.000057
698400.00	4352900.00	.000056	698400.00	4353000.00	.000051
698400.00	4353100.00	.000045	698400.00	4353200.00	.000039
698400.00	4353300.00	.000033	698500.00	4351300.00	.000012
698500.00	4351400.00	.000013	698500.00	4351500.00	.000015
698500.00	4351600.00	.000016	698500.00	4351700.00	.000017
698500.00	4351800.00	.000019	698500.00	4351900.00	.000021
698500.00	4352000.00	.000025	698500.00	4352100.00	.000031
698500.00	4352200.00	.000037	698500.00	4352300.00	.000045
698500.00	4352400.00	.000054	698500.00	4352500.00	.000063
698500.00	4352600.00	.000066	698500.00	4352700.00	.000067
698500.00	4352800.00	.000068	698500.00	4352900.00	.000066
698500.00	4353000.00	.000059	698500.00	4353100.00	.000052
698500.00	4353200.00	.000044	698500.00	4353300.00	.000036
698600.00	4351300.00	.000013	698600.00	4351400.00	.000014
698600.00	4351500.00	.000015	698600.00	4351600.00	.000017
698600.00	4351700.00	.000018	698600.00	4351800.00	.000020
698600.00	4351900.00	.000023	698600.00	4352000.00	.000025
698600.00	4352100.00	.000031	698600.00	4352200.00	.000038
698600.00	4352300.00	.000047	698600.00	4352400.00	.000058
698600.00	4352500.00	.000071	698600.00	4352600.00	.000078
698600.00	4352700.00	.000081	698600.00	4352800.00	.000082
698600.00	4352900.00	.000079	698600.00	4353000.00	.000071
698600.00	4353100.00	.000060	698600.00	4353200.00	.000049
698600.00	4353300.00	.000041	698700.00	4351300.00	.000013
698700.00	4351400.00	.000014	698700.00	4351500.00	.000016
698700.00	4351600.00	.000017	698700.00	4351700.00	.000019
698700.00	4351800.00	.000022	698700.00	4351900.00	.000024
698700.00	4352000.00	.000027	698700.00	4352100.00	.000030
698700.00	4352200.00	.000038	698700.00	4352300.00	.000049
698700.00	4352400.00	.000063	698700.00	4352500.00	.000079
698700.00	4352600.00	.000095	698700.00	4352700.00	.000099
698700.00	4352800.00	.000101	698700.00	4352900.00	.000098

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 73A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.000085	698700.00	4353100.00	.000071
698700.00	4353200.00	.000056	698700.00	4353300.00	.000047
698800.00	4351300.00	.000013	698800.00	4351400.00	.000015
698800.00	4351500.00	.000016	698800.00	4351600.00	.000018
698800.00	4351700.00	.000020	698800.00	4351800.00	.000023
698800.00	4351900.00	.000026	698800.00	4352000.00	.000029
698800.00	4352100.00	.000033	698800.00	4352200.00	.000038
698800.00	4352300.00	.000050	698800.00	4352400.00	.000067
698800.00	4352500.00	.000088	698800.00	4352600.00	.000113
698800.00	4352700.00	.000125	698800.00	4352800.00	.000128
698800.00	4352900.00	.000125	698800.00	4353000.00	.000106
698800.00	4353100.00	.000084	698800.00	4353200.00	.000065
698800.00	4353300.00	.000054	698900.00	4351300.00	.000014
698900.00	4351400.00	.000015	698900.00	4351500.00	.000017
698900.00	4351600.00	.000019	698900.00	4351700.00	.000021
698900.00	4351800.00	.000024	698900.00	4351900.00	.000027
698900.00	4352000.00	.000031	698900.00	4352100.00	.000036
698900.00	4352200.00	.000043	698900.00	4352300.00	.000050
698900.00	4352400.00	.000069	698900.00	4352500.00	.000097
698900.00	4352600.00	.000133	698900.00	4352700.00	.000163
698900.00	4352800.00	.000171	698900.00	4352900.00	.000166
698900.00	4353000.00	.000136	698900.00	4353100.00	.000102
698900.00	4353200.00	.000079	698900.00	4353300.00	.000063
699000.00	4351300.00	.000014	699000.00	4351400.00	.000016
699000.00	4351500.00	.000017	699000.00	4351600.00	.000019
699000.00	4351700.00	.000021	699000.00	4351800.00	.000024
699000.00	4351900.00	.000028	699000.00	4352000.00	.000033
699000.00	4352100.00	.000039	699000.00	4352200.00	.000047
699000.00	4352300.00	.000057	699000.00	4352400.00	.000070
699000.00	4352500.00	.000103	699000.00	4352600.00	.000154
699000.00	4352700.00	.000220	699000.00	4352800.00	.000239
699000.00	4352900.00	.000233	699000.00	4353000.00	.000181
699000.00	4353100.00	.000124	699000.00	4353200.00	.000096
699000.00	4353300.00	.000073	699100.00	4351300.00	.000015
699100.00	4351400.00	.000016	699100.00	4351500.00	.000018
699100.00	4351600.00	.000020	699100.00	4351700.00	.000023
699100.00	4351800.00	.000026	699100.00	4351900.00	.000029
699100.00	4352000.00	.000034	699100.00	4352100.00	.000041
699100.00	4352200.00	.000051	699100.00	4352300.00	.000064
699100.00	4352400.00	.000082	699100.00	4352500.00	.000105

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 73A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.000171	699100.00	4352700.00	.000279
699100.00	4352800.00	.000360	699100.00	4352900.00	.000354
699100.00	4353000.00	.000253	699100.00	4353100.00	.000166
699100.00	4353200.00	.000118	699100.00	4353300.00	.000085
699200.00	4351300.00	.000015	699200.00	4351400.00	.000016
699200.00	4351500.00	.000018	699200.00	4351600.00	.000021
699200.00	4351700.00	.000023	699200.00	4351800.00	.000027
699200.00	4351900.00	.000031	699200.00	4352000.00	.000037
699200.00	4352100.00	.000044	699200.00	4352200.00	.000054
699200.00	4352300.00	.000069	699200.00	4352400.00	.000092
699200.00	4352500.00	.000127	699200.00	4352600.00	.000179
699200.00	4352700.00	.000342	699200.00	4352800.00	.000603
699200.00	4352900.00	.000616	699200.00	4353000.00	.000368
699200.00	4353100.00	.000225	699200.00	4353200.00	.000145
699200.00	4353300.00	.000112	699300.00	4351300.00	.000015
699300.00	4351400.00	.000017	699300.00	4351500.00	.000019
699300.00	4351600.00	.000021	699300.00	4351700.00	.000024
699300.00	4351800.00	.000028	699300.00	4351900.00	.000032
699300.00	4352000.00	.000038	699300.00	4352100.00	.000047
699300.00	4352200.00	.000059	699300.00	4352300.00	.000076
699300.00	4352400.00	.000101	699300.00	4352500.00	.000144
699300.00	4352600.00	.000226	699300.00	4352700.00	.000385
699300.00	4352800.00	.001034	699300.00	4352900.00	.001389
699300.00	4353000.00	.000620	699300.00	4353100.00	.000313
699300.00	4353200.00	.000208	699300.00	4353300.00	.000142
699400.00	4351300.00	.000015	699400.00	4351400.00	.000017
699400.00	4351500.00	.000019	699400.00	4351600.00	.000021
699400.00	4351700.00	.000024	699400.00	4351800.00	.000028
699400.00	4351900.00	.000033	699400.00	4352000.00	.000039
699400.00	4352100.00	.000048	699400.00	4352200.00	.000061
699400.00	4352300.00	.000080	699400.00	4352400.00	.000110
699400.00	4352500.00	.000163	699400.00	4352600.00	.000267
699400.00	4352700.00	.000519	699400.00	4352800.00	.001508
699400.00	4352900.00	.006373	699400.00	4353000.00	.001265
699400.00	4353100.00	.000531	699400.00	4353200.00	.000306
699400.00	4353300.00	.000198	699500.00	4351300.00	.000015
699500.00	4351400.00	.000017	699500.00	4351500.00	.000019
699500.00	4351600.00	.000022	699500.00	4351700.00	.000025
699500.00	4351800.00	.000029	699500.00	4351900.00	.000034
699500.00	4352000.00	.000041	699500.00	4352100.00	.000050

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 73A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.000064	699500.00	4352300.00	.000085
699500.00	4352400.00	.000120	699500.00	4352500.00	.000182
699500.00	4352600.00	.000312	699500.00	4352700.00	.000687
699500.00	4352800.00	.002707	699500.00	4352900.00	.130308
699500.00	4353000.00	.004168	699500.00	4353100.00	.001019
699500.00	4353200.00	.000457	699500.00	4353300.00	.000264
699600.00	4351300.00	.000017	699600.00	4351400.00	.000019
699600.00	4351500.00	.000021	699600.00	4351600.00	.000024
699600.00	4351700.00	.000028	699600.00	4351800.00	.000033
699600.00	4351900.00	.000039	699600.00	4352000.00	.000048
699600.00	4352100.00	.000059	699600.00	4352200.00	.000077
699600.00	4352300.00	.000103	699600.00	4352400.00	.000147
699600.00	4352500.00	.000226	699600.00	4352600.00	.000389
699600.00	4352700.00	.000905	699600.00	4352800.00	.002663
699600.00	4352900.00	.006066	699600.00	4353000.00	.003789
699600.00	4353100.00	.001409	699600.00	4353200.00	.000624
699600.00	4353300.00	.000356	699700.00	4351300.00	.000018
699700.00	4351400.00	.000021	699700.00	4351500.00	.000023
699700.00	4351600.00	.000027	699700.00	4351700.00	.000031
699700.00	4351800.00	.000036	699700.00	4351900.00	.000043
699700.00	4352000.00	.000052	699700.00	4352100.00	.000065
699700.00	4352200.00	.000084	699700.00	4352300.00	.000112
699700.00	4352400.00	.000161	699700.00	4352500.00	.000257
699700.00	4352600.00	.000437	699700.00	4352700.00	.000801
699700.00	4352800.00	.001469	699700.00	4352900.00	.002052
699700.00	4353000.00	.001842	699700.00	4353100.00	.001167
699700.00	4353200.00	.000671	699700.00	4353300.00	.000402
699800.00	4351300.00	.000019	699800.00	4351400.00	.000022
699800.00	4351500.00	.000025	699800.00	4351600.00	.000028
699800.00	4351700.00	.000033	699800.00	4351800.00	.000038
699800.00	4351900.00	.000045	699800.00	4352000.00	.000055
699800.00	4352100.00	.000068	699800.00	4352200.00	.000090
699800.00	4352300.00	.000123	699800.00	4352400.00	.000176
699800.00	4352500.00	.000259	699800.00	4352600.00	.000395
699800.00	4352700.00	.000610	699800.00	4352800.00	.000876
699800.00	4352900.00	.001052	699800.00	4353000.00	.001028
699800.00	4353100.00	.000811	699800.00	4353200.00	.000582
699800.00	4353300.00	.000395	699900.00	4351300.00	.000020
699900.00	4351400.00	.000023	699900.00	4351500.00	.000026
699900.00	4351600.00	.000029	699900.00	4351700.00	.000034

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 73A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.000040	699900.00	4351900.00	.000047
699900.00	4352000.00	.000058	699900.00	4352100.00	.000074
699900.00	4352200.00	.000096	699900.00	4352300.00	.000127
699900.00	4352400.00	.000172	699900.00	4352500.00	.000238
699900.00	4352600.00	.000334	699900.00	4352700.00	.000454
699900.00	4352800.00	.000577	699900.00	4352900.00	.000650
699900.00	4353000.00	.000652	699900.00	4353100.00	.000573
699900.00	4353200.00	.000457	699900.00	4353300.00	.000353
700000.00	4351300.00	.000021	700000.00	4351400.00	.000024
700000.00	4351500.00	.000027	700000.00	4351600.00	.000030
700000.00	4351700.00	.000035	700000.00	4351800.00	.000042
700000.00	4351900.00	.000051	700000.00	4352000.00	.000062
700000.00	4352100.00	.000077	700000.00	4352200.00	.000097
700000.00	4352300.00	.000124	700000.00	4352400.00	.000161
700000.00	4352500.00	.000211	700000.00	4352600.00	.000274
700000.00	4352700.00	.000344	700000.00	4352800.00	.000408
700000.00	4352900.00	.000445	700000.00	4353000.00	.000451
700000.00	4353100.00	.000419	700000.00	4353200.00	.000359
700000.00	4353300.00	.000295	700100.00	4351300.00	.000021
700100.00	4351400.00	.000024	700100.00	4351500.00	.000028
700100.00	4351600.00	.000032	700100.00	4351700.00	.000038
700100.00	4351800.00	.000044	700100.00	4351900.00	.000053
700100.00	4352000.00	.000064	700100.00	4352100.00	.000077
700100.00	4352200.00	.000095	700100.00	4352300.00	.000118
700100.00	4352400.00	.000148	700100.00	4352500.00	.000184
700100.00	4352600.00	.000225	700100.00	4352700.00	.000268
700100.00	4352800.00	.000305	700100.00	4352900.00	.000326
700100.00	4353000.00	.000332	700100.00	4353100.00	.000317
700100.00	4353200.00	.000285	700100.00	4353300.00	.000246
700200.00	4351300.00	.000022	700200.00	4351400.00	.000025
700200.00	4351500.00	.000029	700200.00	4351600.00	.000034
700200.00	4351700.00	.000039	700200.00	4351800.00	.000046
700200.00	4351900.00	.000054	700200.00	4352000.00	.000063
700200.00	4352100.00	.000075	700200.00	4352200.00	.000090
700200.00	4352300.00	.000110	700200.00	4352400.00	.000133
700200.00	4352500.00	.000159	700200.00	4352600.00	.000188
700200.00	4352700.00	.000215	700200.00	4352800.00	.000237
700200.00	4352900.00	.000250	700200.00	4353000.00	.000255
700200.00	4353100.00	.000248	700200.00	4353200.00	.000232
700200.00	4353300.00	.000207	700300.00	4351300.00	.000023

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 73A ***

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.000027	700300.00	4351500.00	.000030
700300.00	4351600.00	.000035	700300.00	4351700.00	.000040
700300.00	4351800.00	.000046	700300.00	4351900.00	.000053
700300.00	4352000.00	.000062	700300.00	4352100.00	.000073
700300.00	4352200.00	.000086	700300.00	4352300.00	.000101
700300.00	4352400.00	.000119	700300.00	4352500.00	.000139
700300.00	4352600.00	.000159	700300.00	4352700.00	.000177
700300.00	4352800.00	.000191	700300.00	4352900.00	.000200
700300.00	4353000.00	.000204	700300.00	4353100.00	.000201
700300.00	4353200.00	.000191	700300.00	4353300.00	.000175
700400.00	4351300.00	.000024	700400.00	4351400.00	.000027
700400.00	4351500.00	.000031	700400.00	4351600.00	.000035
700400.00	4351700.00	.000040	700400.00	4351800.00	.000045
700400.00	4351900.00	.000052	700400.00	4352000.00	.000060
700400.00	4352100.00	.000070	700400.00	4352200.00	.000081
700400.00	4352300.00	.000093	700400.00	4352400.00	.000107
700400.00	4352500.00	.000121	700400.00	4352600.00	.000135
700400.00	4352700.00	.000148	700400.00	4352800.00	.000158
700400.00	4352900.00	.000164	700400.00	4353000.00	.000168
700400.00	4353100.00	.000166	700400.00	4353200.00	.000160
700400.00	4353300.00	.000150			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: U238 ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 32A ,
39A , 39D , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.014269	698400.00	4351400.00	.016790
698400.00	4351500.00	.020090	698400.00	4351600.00	.023880
698400.00	4351700.00	.028172	698400.00	4351800.00	.032650
698400.00	4351900.00	.035830	698400.00	4352000.00	.037899
698400.00	4352100.00	.039521	698400.00	4352200.00	.039719
698400.00	4352300.00	.038408	698400.00	4352400.00	.035745
698400.00	4352500.00	.032654	698400.00	4352600.00	.029304
698400.00	4352700.00	.025832	698400.00	4352800.00	.023341
698400.00	4352900.00	.020836	698400.00	4353000.00	.018387
698400.00	4353100.00	.016060	698400.00	4353200.00	.014183
698400.00	4353300.00	.012777	698500.00	4351300.00	.014477
698500.00	4351400.00	.016955	698500.00	4351500.00	.020305
698500.00	4351600.00	.024719	698500.00	4351700.00	.029842
698500.00	4351800.00	.035586	698500.00	4351900.00	.040777
698500.00	4352000.00	.043663	698500.00	4352100.00	.045892
698500.00	4352200.00	.046677	698500.00	4352300.00	.044957
698500.00	4352400.00	.041437	698500.00	4352500.00	.037317
698500.00	4352600.00	.033052	698500.00	4352700.00	.029239
698500.00	4352800.00	.026059	698500.00	4352900.00	.022907
698500.00	4353000.00	.019885	698500.00	4353100.00	.017059
698500.00	4353200.00	.015205	698500.00	4353300.00	.014012
698600.00	4351300.00	.015353	698600.00	4351400.00	.017232
698600.00	4351500.00	.020582	698600.00	4351600.00	.025198
698600.00	4351700.00	.031376	698600.00	4351800.00	.038729
698600.00	4351900.00	.046433	698600.00	4352000.00	.051221
698600.00	4352100.00	.054288	698600.00	4352200.00	.055914
698600.00	4352300.00	.053613	698600.00	4352400.00	.048774
698600.00	4352500.00	.043141	698600.00	4352600.00	.037608
698600.00	4352700.00	.033448	698600.00	4352800.00	.029249
698600.00	4352900.00	.025213	698600.00	4353000.00	.021444
698600.00	4353100.00	.018452	698600.00	4353200.00	.016874
698600.00	4353300.00	.015360	698700.00	4351300.00	.016391
698700.00	4351400.00	.018387	698700.00	4351500.00	.020978
698700.00	4351600.00	.025771	698700.00	4351700.00	.032636
698700.00	4351800.00	.041846	698700.00	4351900.00	.052384
698700.00	4352000.00	.061168	698700.00	4352100.00	.065573
698700.00	4352200.00	.067800	698700.00	4352300.00	.065313
698700.00	4352400.00	.058421	698700.00	4352500.00	.050680
698700.00	4352600.00	.044011	698700.00	4352700.00	.038719
698700.00	4352800.00	.033132	698700.00	4352900.00	.027824

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: U238 ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 32A ,
39A , 39D , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.023183	698700.00	4353100.00	.020785
698700.00	4353200.00	.018719	698700.00	4353300.00	.016799
698800.00	4351300.00	.017384	698800.00	4351400.00	.019758
698800.00	4351500.00	.022605	698800.00	4351600.00	.026501
698800.00	4351700.00	.033836	698800.00	4351800.00	.044486
698800.00	4351900.00	.058956	698800.00	4352000.00	.074300
698800.00	4352100.00	.081706	698800.00	4352200.00	.085128
698800.00	4352300.00	.082226	698800.00	4352400.00	.071642
698800.00	4352500.00	.060442	698800.00	4352600.00	.052674
698800.00	4352700.00	.045260	698800.00	4352800.00	.037681
698800.00	4352900.00	.030968	698800.00	4353000.00	.026486
698800.00	4353100.00	.023467	698800.00	4353200.00	.020719
698800.00	4353300.00	.018295	698900.00	4351300.00	.018275
698900.00	4351400.00	.021072	698900.00	4351500.00	.024616
698900.00	4351600.00	.028967	698900.00	4351700.00	.035033
698900.00	4351800.00	.046988	698900.00	4351900.00	.065152
698900.00	4352000.00	.088663	698900.00	4352100.00	.106009
698900.00	4352200.00	.111592	698900.00	4352300.00	.106614
698900.00	4352400.00	.090283	698900.00	4352500.00	.073758
698900.00	4352600.00	.064138	698900.00	4352700.00	.053332
698900.00	4352800.00	.043285	698900.00	4352900.00	.036151
698900.00	4353000.00	.030691	698900.00	4353100.00	.026511
698900.00	4353200.00	.022893	698900.00	4353300.00	.019800
699000.00	4351300.00	.018977	699000.00	4351400.00	.022237
699000.00	4351500.00	.026458	699000.00	4351600.00	.031870
699000.00	4351700.00	.038860	699000.00	4351800.00	.049337
699000.00	4351900.00	.071353	699000.00	4352000.00	.106445
699000.00	4352100.00	.144888	699000.00	4352200.00	.155575
699000.00	4352300.00	.144894	699000.00	4352400.00	.117797
699000.00	4352500.00	.094777	699000.00	4352600.00	.079311
699000.00	4352700.00	.064129	699000.00	4352800.00	.052915
699000.00	4352900.00	.042151	699000.00	4353000.00	.035540
699000.00	4353100.00	.029813	699000.00	4353200.00	.025067
699000.00	4353300.00	.021575	699100.00	4351300.00	.019830
699100.00	4351400.00	.023193	699100.00	4351500.00	.027826
699100.00	4351600.00	.034344	699100.00	4351700.00	.043364
699100.00	4351800.00	.056022	699100.00	4351900.00	.076886
699100.00	4352000.00	.125822	699100.00	4352100.00	.206775
699100.00	4352200.00	.242399	699100.00	4352300.00	.213717
699100.00	4352400.00	.158152	699100.00	4352500.00	.124385

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: U238 ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 32A ,
39A , 39D , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.100503	699100.00	4352700.00	.083680
699100.00	4352800.00	.065127	699100.00	4352900.00	.050596
699100.00	4353000.00	.040999	699100.00	4353100.00	.033425
699100.00	4353200.00	.028274	699100.00	4353300.00	.025006
699200.00	4351300.00	.020888	699200.00	4351400.00	.024687
699200.00	4351500.00	.029689	699200.00	4351600.00	.036520
699200.00	4351700.00	.046639	699200.00	4351800.00	.063364
699200.00	4351900.00	.090135	699200.00	4352000.00	.144962
699200.00	4352100.00	.292312	699200.00	4352200.00	.568051
699200.00	4352300.00	.365774	699200.00	4352400.00	.250351
699200.00	4352500.00	.167991	699200.00	4352600.00	.142081
699200.00	4352700.00	.110906	699200.00	4352800.00	.079731
699200.00	4352900.00	.061843	699200.00	4353000.00	.048509
699200.00	4353100.00	.039082	699200.00	4353200.00	.033306
699200.00	4353300.00	.028648	699300.00	4351300.00	.021639
699300.00	4351400.00	.025805	699300.00	4351500.00	.031446
699300.00	4351600.00	.039435	699300.00	4351700.00	.051378
699300.00	4351800.00	.070381	699300.00	4351900.00	.104132
699300.00	4352000.00	.176874	699300.00	4352100.00	.405398
699300.00	4352200.00	.970217	699300.00	4352300.00	.769137
699300.00	4352400.00	.352786	699300.00	4352500.00	.261332
699300.00	4352600.00	.208927	699300.00	4352700.00	.155939
699300.00	4352800.00	.105593	699300.00	4352900.00	.077365
699300.00	4353000.00	.057825	699300.00	4353100.00	.046966
699300.00	4353200.00	.038625	699300.00	4353300.00	.032287
699400.00	4351300.00	.021918	699400.00	4351400.00	.026238
699400.00	4351500.00	.032148	699400.00	4351600.00	.040669
699400.00	4351700.00	.053763	699400.00	4351800.00	.075444
699400.00	4351900.00	.116378	699400.00	4352000.00	.213742
699400.00	4352100.00	.611418	699400.00	4352200.00	2.182619
699400.00	4352300.00	2.866321	699400.00	4352400.00	.631824
699400.00	4352500.00	.397529	699400.00	4352600.00	.350445
699400.00	4352700.00	.231244	699400.00	4352800.00	.140153
699400.00	4352900.00	.099144	699400.00	4353000.00	.071568
699400.00	4353100.00	.055014	699400.00	4353200.00	.043647
699400.00	4353300.00	.036392	699500.00	4351300.00	.023908
699500.00	4351400.00	.028912	699500.00	4351500.00	.035870
699500.00	4351600.00	.046123	699500.00	4351700.00	.062348
699500.00	4351800.00	.090120	699500.00	4351900.00	.144570
699500.00	4352000.00	.280648	699500.00	4352100.00	.911885

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: U238 ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 32A ,
39A , 39D , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	3.658850	699500.00	4352300.00	6.293655
699500.00	4352400.00	1.245386	699500.00	4352500.00	.584725
699500.00	4352600.00	.778963	699500.00	4352700.00	.396152
699500.00	4352800.00	.201911	699500.00	4352900.00	.257926
699500.00	4353000.00	.093816	699500.00	4353100.00	.069073
699500.00	4353200.00	.053839	699500.00	4353300.00	.043384
699600.00	4351300.00	.026255	699600.00	4351400.00	.031954
699600.00	4351500.00	.039895	699600.00	4351600.00	.051546
699600.00	4351700.00	.069812	699600.00	4351800.00	.101076
699600.00	4351900.00	.164878	699600.00	4352000.00	.314147
699600.00	4352100.00	.668324	699600.00	4352200.00	1.302607
699600.00	4352300.00	1.558898	699600.00	4352400.00	1.027525
699600.00	4352500.00	.749284	699600.00	4352600.00	2.913221
699600.00	4352700.00	.976727	699600.00	4352800.00	.334821
699600.00	4352900.00	.185027	699600.00	4353000.00	.119980
699600.00	4353100.00	.084528	699600.00	4353200.00	.063653
699600.00	4353300.00	.050182	699700.00	4351300.00	.028260
699700.00	4351400.00	.034341	699700.00	4351500.00	.042673
699700.00	4351600.00	.055066	699700.00	4351700.00	.076391
699700.00	4351800.00	.111962	699700.00	4351900.00	.172322
699700.00	4352000.00	.278389	699700.00	4352100.00	.454251
699700.00	4352200.00	.655102	699700.00	4352300.00	.747013
699700.00	4352400.00	.702888	699700.00	4352500.00	.842879
699700.00	4352600.00	3.850395	699700.00	4352700.00	2.700442
699700.00	4352800.00	.567464	699700.00	4352900.00	.255526
699700.00	4353000.00	.152758	699700.00	4353100.00	.104025
699700.00	4353200.00	.076333	699700.00	4353300.00	.059017
699800.00	4351300.00	.029830	699800.00	4351400.00	.036384
699800.00	4351500.00	.046379	699800.00	4351600.00	.060513
699800.00	4351700.00	.081299	699800.00	4351800.00	.112444
699800.00	4351900.00	.159820	699800.00	4352000.00	.231588
699800.00	4352100.00	.322551	699800.00	4352200.00	.412025
699800.00	4352300.00	.475235	699800.00	4352400.00	.532102
699800.00	4352500.00	.697074	699800.00	4352600.00	1.088518
699800.00	4352700.00	1.044303	699800.00	4352800.00	.572919
699800.00	4352900.00	.296981	699800.00	4353000.00	.176777
699800.00	4353100.00	.119295	699800.00	4353200.00	.087083
699800.00	4353300.00	.067092	699900.00	4351300.00	.032080
699900.00	4351400.00	.039323	699900.00	4351500.00	.049096
699900.00	4351600.00	.062300	699900.00	4351700.00	.080447

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: U238 ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 32A ,
39A , 39D , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.106104	699900.00	4351900.00	.142562
699900.00	4352000.00	.188780	699900.00	4352100.00	.244642
699900.00	4352200.00	.298591	699900.00	4352300.00	.346727
699900.00	4352400.00	.400042	699900.00	4352500.00	.477187
699900.00	4352600.00	.554285	699900.00	4352700.00	.536043
699900.00	4352800.00	.406542	699900.00	4352900.00	.278210
699900.00	4353000.00	.185262	699900.00	4353100.00	.129309
699900.00	4353200.00	.094356	699900.00	4353300.00	.072097
700000.00	4351300.00	.033734	700000.00	4351400.00	.040638
700000.00	4351500.00	.049686	700000.00	4351600.00	.061468
700000.00	4351700.00	.076975	700000.00	4351800.00	.098223
700000.00	4351900.00	.125480	700000.00	4352000.00	.158290
700000.00	4352100.00	.196165	700000.00	4352200.00	.232630
700000.00	4352300.00	.265000	700000.00	4352400.00	.301444
700000.00	4352500.00	.336890	700000.00	4352600.00	.355810
700000.00	4352700.00	.343188	700000.00	4352800.00	.294744
700000.00	4352900.00	.229693	700000.00	4353000.00	.173863
700000.00	4353100.00	.129128	700000.00	4353200.00	.098338
700000.00	4353300.00	.076793	700100.00	4351300.00	.034447
700100.00	4351400.00	.040861	700100.00	4351500.00	.048901
700100.00	4351600.00	.059556	700100.00	4351700.00	.073498
700100.00	4351800.00	.090559	700100.00	4351900.00	.110910
700100.00	4352000.00	.134459	700100.00	4352100.00	.163888
700100.00	4352200.00	.219050	700100.00	4352300.00	.209747
700100.00	4352400.00	.231110	700100.00	4352500.00	.248880
700100.00	4352600.00	.254837	700100.00	4352700.00	.246102
700100.00	4352800.00	.222270	700100.00	4352900.00	.187605
700100.00	4353000.00	.152442	700100.00	4353100.00	.122405
700100.00	4353200.00	.096991	700100.00	4353300.00	.077997
700200.00	4351300.00	.034503	700200.00	4351400.00	.040609
700200.00	4351500.00	.048134	700200.00	4351600.00	.057629
700200.00	4351700.00	.069113	700200.00	4351800.00	.082636
700200.00	4351900.00	.098302	700200.00	4352000.00	.115913
700200.00	4352100.00	.135812	700200.00	4352200.00	.155300
700200.00	4352300.00	.169210	700200.00	4352400.00	.182333
700200.00	4352500.00	.192111	700200.00	4352600.00	.194392
700200.00	4352700.00	.188195	700200.00	4352800.00	.174233
700200.00	4352900.00	.154325	700200.00	4353000.00	.132167
700200.00	4353100.00	.111131	700200.00	4353200.00	.092856
700200.00	4353300.00	.076620	700300.00	4351300.00	.034446

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: U238 ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 32A ,
39A , 39D , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.040051	700300.00	4351500.00	.046937
700300.00	4351600.00	.054989	700300.00	4351700.00	.064338
700300.00	4351800.00	.075122	700300.00	4351900.00	.087222
700300.00	4352000.00	.100431	700300.00	4352100.00	.114204
700300.00	4352200.00	.127104	700300.00	4352300.00	.138213
700300.00	4352400.00	.147309	700300.00	4352500.00	.153099
700300.00	4352600.00	.154123	700300.00	4352700.00	.149975
700300.00	4352800.00	.141109	700300.00	4352900.00	.129057
700300.00	4353000.00	.114416	700300.00	4353100.00	.099881
700300.00	4353200.00	.086049	700300.00	4353300.00	.073714
700400.00	4351300.00	.033978	700400.00	4351400.00	.039171
700400.00	4351500.00	.045166	700400.00	4351600.00	.052023
700400.00	4351700.00	.059781	700400.00	4351800.00	.068413
700400.00	4351900.00	.077814	700400.00	4352000.00	.087742
700400.00	4352100.00	.097733	700400.00	4352200.00	.107029
700400.00	4352300.00	.115218	700400.00	4352400.00	.121653
700400.00	4352500.00	.125389	700400.00	4352600.00	.126066
700400.00	4352700.00	.123604	700400.00	4352800.00	.117748
700400.00	4352900.00	.109654	700400.00	4353000.00	.099737
700400.00	4353100.00	.089125	700400.00	4353200.00	.078910
700400.00	4353300.00	.069197			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TH ***
INCLUDING SOURCE(S): 13C , 13D , 65 , 67 , 68 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.001075	698400.00	4351400.00	.001331
698400.00	4351500.00	.001659	698400.00	4351600.00	.002048
698400.00	4351700.00	.002446	698400.00	4351800.00	.002751
698400.00	4351900.00	.002958	698400.00	4352000.00	.003087
698400.00	4352100.00	.003016	698400.00	4352200.00	.002794
698400.00	4352300.00	.002545	698400.00	4352400.00	.002357
698400.00	4352500.00	.002166	698400.00	4352600.00	.001926
698400.00	4352700.00	.001674	698400.00	4352800.00	.001476
698400.00	4352900.00	.001306	698400.00	4353000.00	.001139
698400.00	4353100.00	.001018	698400.00	4353200.00	.000927
698400.00	4353300.00	.000844	698500.00	4351300.00	.001136
698500.00	4351400.00	.001339	698500.00	4351500.00	.001716
698500.00	4351600.00	.002207	698500.00	4351700.00	.002766
698500.00	4351800.00	.003267	698500.00	4351900.00	.003555
698500.00	4352000.00	.003713	698500.00	4352100.00	.003641
698500.00	4352200.00	.003321	698500.00	4352300.00	.002985
698500.00	4352400.00	.002772	698500.00	4352500.00	.002504
698500.00	4352600.00	.002182	698500.00	4352700.00	.001894
698500.00	4352800.00	.001667	698500.00	4352900.00	.001444
698500.00	4353000.00	.001240	698500.00	4353100.00	.001118
698500.00	4353200.00	.001008	698500.00	4353300.00	.000908
698600.00	4351300.00	.001226	698600.00	4351400.00	.001430
698600.00	4351500.00	.001742	698600.00	4351600.00	.002337
698600.00	4351700.00	.003138	698600.00	4351800.00	.003935
698600.00	4351900.00	.004427	698600.00	4352000.00	.004628
698600.00	4352100.00	.004486	698600.00	4352200.00	.004028
698600.00	4352300.00	.003630	698600.00	4352400.00	.003316
698600.00	4352500.00	.002925	698600.00	4352600.00	.002523
698600.00	4352700.00	.002199	698600.00	4352800.00	.001887
698600.00	4352900.00	.001593	698600.00	4353000.00	.001380
698600.00	4353100.00	.001231	698600.00	4353200.00	.001095
698600.00	4353300.00	.000973	698700.00	4351300.00	.001322
698700.00	4351400.00	.001558	698700.00	4351500.00	.001883
698700.00	4351600.00	.002416	698700.00	4351700.00	.003466
698700.00	4351800.00	.004775	698700.00	4351900.00	.005816
698700.00	4352000.00	.006068	698700.00	4352100.00	.005663
698700.00	4352200.00	.005014	698700.00	4352300.00	.004539
698700.00	4352400.00	.004057	698700.00	4352500.00	.003538
698700.00	4352600.00	.003033	698700.00	4352700.00	.002578
698700.00	4352800.00	.002144	698700.00	4352900.00	.001766

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TH ***
INCLUDING SOURCE(S): 13C , 13D , 65 , 67 , 68 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.001543	698700.00	4353100.00	.001355
698700.00	4353200.00	.001197	698700.00	4353300.00	.001056
698800.00	4351300.00	.001406	698800.00	4351400.00	.001696
698800.00	4351500.00	.002086	698800.00	4351600.00	.002666
698800.00	4351700.00	.003705	698800.00	4351800.00	.005863
698800.00	4351900.00	.008209	698800.00	4352000.00	.008707
698800.00	4352100.00	.007508	698800.00	4352200.00	.006408
698800.00	4352300.00	.005832	698800.00	4352400.00	.005230
698800.00	4352500.00	.004473	698800.00	4352600.00	.003710
698800.00	4352700.00	.003027	698800.00	4352800.00	.002455
698800.00	4352900.00	.002028	698800.00	4353000.00	.001756
698800.00	4353100.00	.001517	698800.00	4353200.00	.001311
698800.00	4353300.00	.001140	698900.00	4351300.00	.001490
698900.00	4351400.00	.001820	698900.00	4351500.00	.002288
698900.00	4351600.00	.003014	698900.00	4351700.00	.004244
698900.00	4351800.00	.006811	698900.00	4351900.00	.011759
698900.00	4352000.00	.014739	698900.00	4352100.00	.011061
698900.00	4352200.00	.008292	698900.00	4352300.00	.008075
698900.00	4352400.00	.007421	698900.00	4352500.00	.005759
698900.00	4352600.00	.004570	698900.00	4352700.00	.003662
698900.00	4352800.00	.002891	698900.00	4352900.00	.002382
698900.00	4353000.00	.002002	698900.00	4353100.00	.001693
698900.00	4353200.00	.001434	698900.00	4353300.00	.001263
699000.00	4351300.00	.001576	699000.00	4351400.00	.001948
699000.00	4351500.00	.002495	699000.00	4351600.00	.003386
699000.00	4351700.00	.004946	699000.00	4351800.00	.008575
699000.00	4351900.00	.018006	699000.00	4352000.00	.035026
699000.00	4352100.00	.019157	699000.00	4352200.00	.011428
699000.00	4352300.00	.011897	699000.00	4352400.00	.012567
699000.00	4352500.00	.008103	699000.00	4352600.00	.006040
699000.00	4352700.00	.004560	699000.00	4352800.00	.003437
699000.00	4352900.00	.002800	699000.00	4353000.00	.002283
699000.00	4353100.00	.001870	699000.00	4353200.00	.001605
699000.00	4353300.00	.001419	699100.00	4351300.00	.001615
699100.00	4351400.00	.002022	699100.00	4351500.00	.002644
699100.00	4351600.00	.003680	699100.00	4351700.00	.005687
699100.00	4351800.00	.010829	699100.00	4351900.00	.037374
699100.00	4352000.00	.111828	699100.00	4352100.00	.055660
699100.00	4352200.00	.018984	699100.00	4352300.00	.017465
699100.00	4352400.00	.052452	699100.00	4352500.00	.012765

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TH ***
INCLUDING SOURCE(S): 13C , 13D , 65 , 67 , 68 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.008298	699100.00	4352700.00	.005735
699100.00	4352800.00	.004206	699100.00	4352900.00	.003261
699100.00	4353000.00	.002543	699100.00	4353100.00	.002111
699100.00	4353200.00	.001822	699100.00	4353300.00	.001580
699200.00	4351300.00	.001766	699200.00	4351400.00	.002234
699200.00	4351500.00	.002969	699200.00	4351600.00	.004257
699200.00	4351700.00	.006949	699200.00	4351800.00	.014786
699200.00	4351900.00	.079407	699200.00	4352000.00	.232147
699200.00	4352100.00	.121410	699200.00	4352200.00	.031926
699200.00	4352300.00	.027269	699200.00	4352400.00	.100400
699200.00	4352500.00	.024792	699200.00	4352600.00	.012247
699200.00	4352700.00	.007450	699200.00	4352800.00	.005326
699200.00	4352900.00	.003875	699200.00	4353000.00	.003044
699200.00	4353100.00	.002519	699200.00	4353200.00	.002114
699200.00	4353300.00	.001794	699300.00	4351300.00	.001983
699300.00	4351400.00	.002536	699300.00	4351500.00	.003409
699300.00	4351600.00	.004913	699300.00	4351700.00	.008338
699300.00	4351800.00	.017576	699300.00	4351900.00	.044685
699300.00	4352000.00	.068971	699300.00	4352100.00	.052403
699300.00	4352200.00	.031754	699300.00	4352300.00	.026349
699300.00	4352400.00	.031373	699300.00	4352500.00	.026102
699300.00	4352600.00	.016613	699300.00	4352700.00	.009895
699300.00	4352800.00	.006531	699300.00	4352900.00	.004781
699300.00	4353000.00	.003747	699300.00	4353100.00	.002991
699300.00	4353200.00	.002440	699300.00	4353300.00	.002042
699400.00	4351300.00	.002103	699400.00	4351400.00	.002682
699400.00	4351500.00	.003723	699400.00	4351600.00	.005483
699400.00	4351700.00	.008612	699400.00	4351800.00	.014526
699400.00	4351900.00	.023563	699400.00	4352000.00	.030241
699400.00	4352100.00	.029242	699400.00	4352200.00	.024763
699400.00	4352300.00	.022659	699400.00	4352400.00	.029271
699400.00	4352500.00	.035623	699400.00	4352600.00	.022573
699400.00	4352700.00	.012594	699400.00	4352800.00	.008215
699400.00	4352900.00	.005916	699400.00	4353000.00	.004395
699400.00	4353100.00	.003481	699400.00	4353200.00	.002851
699400.00	4353300.00	.002378	699500.00	4351300.00	.002241
699500.00	4351400.00	.002904	699500.00	4351500.00	.003888
699500.00	4351600.00	.005395	699500.00	4351700.00	.007779
699500.00	4351800.00	.011230	699500.00	4351900.00	.015241
699500.00	4352000.00	.018285	699500.00	4352100.00	.019395

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TH ***
INCLUDING SOURCE(S): 13C , 13D , 65 , 67 , 68 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	.019424	699500.00	4352300.00	.021218
699500.00	4352400.00	.031176	699500.00	4352500.00	.091822
699500.00	4352600.00	.039754	699500.00	4352700.00	.017968
699500.00	4352800.00	.010561	699500.00	4352900.00	.007369
699500.00	4353000.00	.005397	699500.00	4353100.00	.004134
699500.00	4353200.00	.003273	699500.00	4353300.00	.002671
699600.00	4351300.00	.002325	699600.00	4351400.00	.002938
699600.00	4351500.00	.003788	699600.00	4351600.00	.005023
699600.00	4351700.00	.006719	699600.00	4351800.00	.008810
699600.00	4351900.00	.011019	699600.00	4352000.00	.012885
699600.00	4352100.00	.014307	699600.00	4352200.00	.015848
699600.00	4352300.00	.020038	699600.00	4352400.00	.039265
699600.00	4352500.00	.425147	699600.00	4352600.00	.132104
699600.00	4352700.00	.030426	699600.00	4352800.00	.014624
699600.00	4352900.00	.009015	699600.00	4353000.00	.006249
699600.00	4353100.00	.004641	699600.00	4353200.00	.003606
699600.00	4353300.00	.002908	699700.00	4351300.00	.002403
699700.00	4351400.00	.002961	699700.00	4351500.00	.003712
699700.00	4351600.00	.004710	699700.00	4351700.00	.005954
699700.00	4351800.00	.007408	699700.00	4351900.00	.008961
699700.00	4352000.00	.010534	699700.00	4352100.00	.012347
699700.00	4352200.00	.015242	699700.00	4352300.00	.022349
699700.00	4352400.00	.055081	699700.00	4352500.00	.220026
699700.00	4352600.00	.180669	699700.00	4352700.00	.050729
699700.00	4352800.00	.021297	699700.00	4352900.00	.012185
699700.00	4353000.00	.008031	699700.00	4353100.00	.005752
699700.00	4353200.00	.004352	699700.00	4353300.00	.003435
699800.00	4351300.00	.002420	699800.00	4351400.00	.002933
699800.00	4351500.00	.003583	699800.00	4351600.00	.004382
699800.00	4351700.00	.005340	699800.00	4351800.00	.006445
699800.00	4351900.00	.007664	699800.00	4352000.00	.009057
699800.00	4352100.00	.011006	699800.00	4352200.00	.014755
699800.00	4352300.00	.022556	699800.00	4352400.00	.040820
699800.00	4352500.00	.068269	699800.00	4352600.00	.068844
699800.00	4352700.00	.042550	699800.00	4352800.00	.023195
699800.00	4352900.00	.013740	699800.00	4353000.00	.008944
699800.00	4353100.00	.006452	699800.00	4353200.00	.004886
699800.00	4353300.00	.003850	699900.00	4351300.00	.002404
699900.00	4351400.00	.002859	699900.00	4351500.00	.003410
699900.00	4351600.00	.004065	699900.00	4351700.00	.004837

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TH ***
INCLUDING SOURCE(S): 13C , 13D , 65 , 67 , 68 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.005714	699900.00	4351900.00	.006807
699900.00	4352000.00	.008253	699900.00	4352100.00	.010287
699900.00	4352200.00	.013435	699900.00	4352300.00	.018827
699900.00	4352400.00	.026838	699900.00	4352500.00	.034388
699900.00	4352600.00	.035228	699900.00	4352700.00	.028331
699900.00	4352800.00	.020152	699900.00	4352900.00	.013639
699900.00	4353000.00	.009493	699900.00	4353100.00	.006886
699900.00	4353200.00	.005183	699900.00	4353300.00	.004094
700000.00	4351300.00	.002360	700000.00	4351400.00	.002755
700000.00	4351500.00	.003219	700000.00	4351600.00	.003769
700000.00	4351700.00	.004474	700000.00	4351800.00	.005298
700000.00	4351900.00	.006281	700000.00	4352000.00	.007527
700000.00	4352100.00	.009198	700000.00	4352200.00	.011612
700000.00	4352300.00	.014886	700000.00	4352400.00	.018658
700000.00	4352500.00	.021461	700000.00	4352600.00	.021937
700000.00	4352700.00	.019670	700000.00	4352800.00	.015786
700000.00	4352900.00	.012217	700000.00	4353000.00	.009162
700000.00	4353100.00	.006956	700000.00	4353200.00	.005415
700000.00	4353300.00	.004306	700100.00	4351300.00	.002291
700100.00	4351400.00	.002652	700100.00	4351500.00	.003090
700100.00	4351600.00	.003603	700100.00	4351700.00	.004205
700100.00	4351800.00	.004909	700100.00	4351900.00	.005743
700100.00	4352000.00	.006758	700100.00	4352100.00	.008101
700100.00	4352200.00	.009798	700100.00	4352300.00	.011756
700100.00	4352400.00	.013714	700100.00	4352500.00	.014997
700100.00	4352600.00	.015264	700100.00	4352700.00	.014315
700100.00	4352800.00	.012404	700100.00	4352900.00	.010283
700100.00	4353000.00	.008384	700100.00	4353100.00	.006691
700100.00	4353200.00	.005375	700100.00	4353300.00	.004375
700200.00	4351300.00	.002251	700200.00	4351400.00	.002588
700200.00	4351500.00	.002978	700200.00	4351600.00	.003426
700200.00	4351700.00	.003935	700200.00	4351800.00	.004530
700200.00	4351900.00	.005224	700200.00	4352000.00	.006071
700200.00	4352100.00	.007079	700200.00	4352200.00	.008232
700200.00	4352300.00	.009460	700200.00	4352400.00	.010561
700200.00	4352500.00	.011236	700200.00	4352600.00	.011391
700200.00	4352700.00	.010924	700200.00	4352800.00	.009931
700200.00	4352900.00	.008622	700200.00	4353000.00	.007361
700200.00	4353100.00	.006233	700200.00	4353200.00	.005174
700200.00	4353300.00	.004306	700300.00	4351300.00	.002202

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TH ***
INCLUDING SOURCE(S): 13C , 13D , 65 , 67 , 68 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.002505	700300.00	4351500.00	.002850
700300.00	4351600.00	.003239	700300.00	4351700.00	.003675
700300.00	4351800.00	.004169	700300.00	4351900.00	.004759
700300.00	4352000.00	.005438	700300.00	4352100.00	.006189
700300.00	4352200.00	.006987	700300.00	4352300.00	.007774
700300.00	4352400.00	.008426	700300.00	4352500.00	.008819
700300.00	4352600.00	.008918	700300.00	4352700.00	.008662
700300.00	4352800.00	.008120	700300.00	4352900.00	.007308
700300.00	4353000.00	.006442	700300.00	4353100.00	.005617
700300.00	4353200.00	.004869	700300.00	4353300.00	.004160
700400.00	4351300.00	.002138	700400.00	4351400.00	.002408
700400.00	4351500.00	.002712	700400.00	4351600.00	.003048
700400.00	4351700.00	.003422	700400.00	4351800.00	.003849
700400.00	4351900.00	.004327	700400.00	4352000.00	.004857
700400.00	4352100.00	.005421	700400.00	4352200.00	.005995
700400.00	4352300.00	.006526	700400.00	4352400.00	.006944
700400.00	4352500.00	.007193	700400.00	4352600.00	.007262
700400.00	4352700.00	.007112	700400.00	4352800.00	.006771
700400.00	4352900.00	.006262	700400.00	4353000.00	.005648
700400.00	4353100.00	.005038	700400.00	4353200.00	.004470
700400.00	4353300.00	.003963			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 13C ,
13D , 32A , 39A , 39D , 65 , 67 , 68 , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698400.00	4351300.00	.015343	698400.00	4351400.00	.018121
698400.00	4351500.00	.021750	698400.00	4351600.00	.025927
698400.00	4351700.00	.030618	698400.00	4351800.00	.035401
698400.00	4351900.00	.038788	698400.00	4352000.00	.040986
698400.00	4352100.00	.042537	698400.00	4352200.00	.042514
698400.00	4352300.00	.040953	698400.00	4352400.00	.038102
698400.00	4352500.00	.034820	698400.00	4352600.00	.031230
698400.00	4352700.00	.027506	698400.00	4352800.00	.024818
698400.00	4352900.00	.022141	698400.00	4353000.00	.019526
698400.00	4353100.00	.017078	698400.00	4353200.00	.015110
698400.00	4353300.00	.013621	698500.00	4351300.00	.015613
698500.00	4351400.00	.018295	698500.00	4351500.00	.022021
698500.00	4351600.00	.026926	698500.00	4351700.00	.032608
698500.00	4351800.00	.038854	698500.00	4351900.00	.044333
698500.00	4352000.00	.047377	698500.00	4352100.00	.049532
698500.00	4352200.00	.049999	698500.00	4352300.00	.047943
698500.00	4352400.00	.044209	698500.00	4352500.00	.039821
698500.00	4352600.00	.035234	698500.00	4352700.00	.031134
698500.00	4352800.00	.027726	698500.00	4352900.00	.024351
698500.00	4353000.00	.021125	698500.00	4353100.00	.018177
698500.00	4353200.00	.016214	698500.00	4353300.00	.014920
698600.00	4351300.00	.016579	698600.00	4351400.00	.018662
698600.00	4351500.00	.022324	698600.00	4351600.00	.027535
698600.00	4351700.00	.034514	698600.00	4351800.00	.042664
698600.00	4351900.00	.050860	698600.00	4352000.00	.055849
698600.00	4352100.00	.058774	698600.00	4352200.00	.059943
698600.00	4352300.00	.057243	698600.00	4352400.00	.052090
698600.00	4352500.00	.046066	698600.00	4352600.00	.040132
698600.00	4352700.00	.035647	698600.00	4352800.00	.031137
698600.00	4352900.00	.026806	698600.00	4353000.00	.022824
698600.00	4353100.00	.019683	698600.00	4353200.00	.017969
698600.00	4353300.00	.016333	698700.00	4351300.00	.017713
698700.00	4351400.00	.019945	698700.00	4351500.00	.022860
698700.00	4351600.00	.028186	698700.00	4351700.00	.036101
698700.00	4351800.00	.046621	698700.00	4351900.00	.058200
698700.00	4352000.00	.067235	698700.00	4352100.00	.071236
698700.00	4352200.00	.072813	698700.00	4352300.00	.069852
698700.00	4352400.00	.062479	698700.00	4352500.00	.054218
698700.00	4352600.00	.047044	698700.00	4352700.00	.041297
698700.00	4352800.00	.035275	698700.00	4352900.00	.029589

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 13C ,
13D , 32A , 39A , 39D , 65 , 67 , 68 , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
698700.00	4353000.00	.024726	698700.00	4353100.00	.022140
698700.00	4353200.00	.019915	698700.00	4353300.00	.017855
698800.00	4351300.00	.018789	698800.00	4351400.00	.021454
698800.00	4351500.00	.024691	698800.00	4351600.00	.029167
698800.00	4351700.00	.037541	698800.00	4351800.00	.050348
698800.00	4351900.00	.067164	698800.00	4352000.00	.083007
698800.00	4352100.00	.089214	698800.00	4352200.00	.091536
698800.00	4352300.00	.088058	698800.00	4352400.00	.076872
698800.00	4352500.00	.064915	698800.00	4352600.00	.056384
698800.00	4352700.00	.048287	698800.00	4352800.00	.040136
698800.00	4352900.00	.032996	698800.00	4353000.00	.028242
698800.00	4353100.00	.024983	698800.00	4353200.00	.022030
698800.00	4353300.00	.019435	698900.00	4351300.00	.019765
698900.00	4351400.00	.022892	698900.00	4351500.00	.026904
698900.00	4351600.00	.031980	698900.00	4351700.00	.039277
698900.00	4351800.00	.053798	698900.00	4351900.00	.076912
698900.00	4352000.00	.103402	698900.00	4352100.00	.117071
698900.00	4352200.00	.119884	698900.00	4352300.00	.114690
698900.00	4352400.00	.097704	698900.00	4352500.00	.079516
698900.00	4352600.00	.068709	698900.00	4352700.00	.056994
698900.00	4352800.00	.046176	698900.00	4352900.00	.038533
698900.00	4353000.00	.032693	698900.00	4353100.00	.028204
698900.00	4353200.00	.024327	698900.00	4353300.00	.021063
699000.00	4351300.00	.020552	699000.00	4351400.00	.024186
699000.00	4351500.00	.028953	699000.00	4351600.00	.035256
699000.00	4351700.00	.043806	699000.00	4351800.00	.057912
699000.00	4351900.00	.089359	699000.00	4352000.00	.141471
699000.00	4352100.00	.164045	699000.00	4352200.00	.167002
699000.00	4352300.00	.156791	699000.00	4352400.00	.130363
699000.00	4352500.00	.102880	699000.00	4352600.00	.085351
699000.00	4352700.00	.068689	699000.00	4352800.00	.056352
699000.00	4352900.00	.044951	699000.00	4353000.00	.037823
699000.00	4353100.00	.031683	699000.00	4353200.00	.026672
699000.00	4353300.00	.022993	699100.00	4351300.00	.021446
699100.00	4351400.00	.025215	699100.00	4351500.00	.030469
699100.00	4351600.00	.038023	699100.00	4351700.00	.049051
699100.00	4351800.00	.066851	699100.00	4351900.00	.114259
699100.00	4352000.00	.237649	699100.00	4352100.00	.262435
699100.00	4352200.00	.261383	699100.00	4352300.00	.231183
699100.00	4352400.00	.210604	699100.00	4352500.00	.137149

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 13C ,
13D , 32A , 39A , 39D , 65 , 67 , 68 , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699100.00	4352600.00	.108801	699100.00	4352700.00	.089415
699100.00	4352800.00	.069333	699100.00	4352900.00	.053857
699100.00	4353000.00	.043543	699100.00	4353100.00	.035535
699100.00	4353200.00	.030096	699100.00	4353300.00	.026586
699200.00	4351300.00	.022654	699200.00	4351400.00	.026921
699200.00	4351500.00	.032657	699200.00	4351600.00	.040777
699200.00	4351700.00	.053588	699200.00	4351800.00	.078151
699200.00	4351900.00	.169542	699200.00	4352000.00	.377109
699200.00	4352100.00	.413722	699200.00	4352200.00	.599977
699200.00	4352300.00	.393043	699200.00	4352400.00	.350751
699200.00	4352500.00	.192783	699200.00	4352600.00	.154328
699200.00	4352700.00	.118356	699200.00	4352800.00	.085057
699200.00	4352900.00	.065718	699200.00	4353000.00	.051553
699200.00	4353100.00	.041601	699200.00	4353200.00	.035420
699200.00	4353300.00	.030442	699300.00	4351300.00	.023621
699300.00	4351400.00	.028342	699300.00	4351500.00	.034855
699300.00	4351600.00	.044349	699300.00	4351700.00	.059716
699300.00	4351800.00	.087957	699300.00	4351900.00	.148817
699300.00	4352000.00	.245846	699300.00	4352100.00	.457801
699300.00	4352200.00	1.001971	699300.00	4352300.00	.795486
699300.00	4352400.00	.384159	699300.00	4352500.00	.287434
699300.00	4352600.00	.225541	699300.00	4352700.00	.165834
699300.00	4352800.00	.112124	699300.00	4352900.00	.082146
699300.00	4353000.00	.061571	699300.00	4353100.00	.049957
699300.00	4353200.00	.041065	699300.00	4353300.00	.034329
699400.00	4351300.00	.024021	699400.00	4351400.00	.028920
699400.00	4351500.00	.035871	699400.00	4351600.00	.046152
699400.00	4351700.00	.062375	699400.00	4351800.00	.089970
699400.00	4351900.00	.139941	699400.00	4352000.00	.243983
699400.00	4352100.00	.640660	699400.00	4352200.00	2.207382
699400.00	4352300.00	2.888981	699400.00	4352400.00	.661096
699400.00	4352500.00	.433152	699400.00	4352600.00	.373018
699400.00	4352700.00	.243838	699400.00	4352800.00	.148368
699400.00	4352900.00	.105060	699400.00	4353000.00	.075963
699400.00	4353100.00	.058496	699400.00	4353200.00	.046497
699400.00	4353300.00	.038771	699500.00	4351300.00	.026149
699500.00	4351400.00	.031816	699500.00	4351500.00	.039758
699500.00	4351600.00	.051517	699500.00	4351700.00	.070127
699500.00	4351800.00	.101350	699500.00	4351900.00	.159810
699500.00	4352000.00	.298933	699500.00	4352100.00	.931280

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 13C ,
13D , 32A , 39A , 39D , 65 , 67 , 68 , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699500.00	4352200.00	3.678275	699500.00	4352300.00	6.314874
699500.00	4352400.00	1.276563	699500.00	4352500.00	.676547
699500.00	4352600.00	.818717	699500.00	4352700.00	.414119
699500.00	4352800.00	.212471	699500.00	4352900.00	.265295
699500.00	4353000.00	.099213	699500.00	4353100.00	.073207
699500.00	4353200.00	.057112	699500.00	4353300.00	.046055
699600.00	4351300.00	.028580	699600.00	4351400.00	.034892
699600.00	4351500.00	.043683	699600.00	4351600.00	.056569
699600.00	4351700.00	.076531	699600.00	4351800.00	.109886
699600.00	4351900.00	.175897	699600.00	4352000.00	.327033
699600.00	4352100.00	.682631	699600.00	4352200.00	1.318455
699600.00	4352300.00	1.578936	699600.00	4352400.00	1.066790
699600.00	4352500.00	1.174431	699600.00	4352600.00	3.045326
699600.00	4352700.00	1.007154	699600.00	4352800.00	.349445
699600.00	4352900.00	.194042	699600.00	4353000.00	.126230
699600.00	4353100.00	.089170	699600.00	4353200.00	.067260
699600.00	4353300.00	.053090	699700.00	4351300.00	.030663
699700.00	4351400.00	.037302	699700.00	4351500.00	.046385
699700.00	4351600.00	.059775	699700.00	4351700.00	.082345
699700.00	4351800.00	.119371	699700.00	4351900.00	.181283
699700.00	4352000.00	.288923	699700.00	4352100.00	.466598
699700.00	4352200.00	.670343	699700.00	4352300.00	.769362
699700.00	4352400.00	.757969	699700.00	4352500.00	1.062905
699700.00	4352600.00	4.031064	699700.00	4352700.00	2.751171
699700.00	4352800.00	.588761	699700.00	4352900.00	.267710
699700.00	4353000.00	.160789	699700.00	4353100.00	.109777
699700.00	4353200.00	.080686	699700.00	4353300.00	.062452
699800.00	4351300.00	.032250	699800.00	4351400.00	.039317
699800.00	4351500.00	.049962	699800.00	4351600.00	.064895
699800.00	4351700.00	.086640	699800.00	4351800.00	.118889
699800.00	4351900.00	.167484	699800.00	4352000.00	.240644
699800.00	4352100.00	.333557	699800.00	4352200.00	.426781
699800.00	4352300.00	.497791	699800.00	4352400.00	.572922
699800.00	4352500.00	.765343	699800.00	4352600.00	1.157362
699800.00	4352700.00	1.086854	699800.00	4352800.00	.596113
699800.00	4352900.00	.310721	699800.00	4353000.00	.185721
699800.00	4353100.00	.125747	699800.00	4353200.00	.091969
699800.00	4353300.00	.070942	699900.00	4351300.00	.034484
699900.00	4351400.00	.042183	699900.00	4351500.00	.052505
699900.00	4351600.00	.066364	699900.00	4351700.00	.085284

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 13C ,
13D , 32A , 39A , 39D , 65 , 67 , 68 , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
699900.00	4351800.00	.111819	699900.00	4351900.00	.149369
699900.00	4352000.00	.197033	699900.00	4352100.00	.254929
699900.00	4352200.00	.312026	699900.00	4352300.00	.365554
699900.00	4352400.00	.426880	699900.00	4352500.00	.511575
699900.00	4352600.00	.589513	699900.00	4352700.00	.564374
699900.00	4352800.00	.426693	699900.00	4352900.00	.291849
699900.00	4353000.00	.194755	699900.00	4353100.00	.136195
699900.00	4353200.00	.099539	699900.00	4353300.00	.076190
700000.00	4351300.00	.036094	700000.00	4351400.00	.043393
700000.00	4351500.00	.052906	700000.00	4351600.00	.065237
700000.00	4351700.00	.081449	700000.00	4351800.00	.103521
700000.00	4351900.00	.131761	700000.00	4352000.00	.165817
700000.00	4352100.00	.205363	700000.00	4352200.00	.244242
700000.00	4352300.00	.279886	700000.00	4352400.00	.320101
700000.00	4352500.00	.358351	700000.00	4352600.00	.377747
700000.00	4352700.00	.362858	700000.00	4352800.00	.310530
700000.00	4352900.00	.241910	700000.00	4353000.00	.183025
700000.00	4353100.00	.136084	700000.00	4353200.00	.103753
700000.00	4353300.00	.081099	700100.00	4351300.00	.036738
700100.00	4351400.00	.043513	700100.00	4351500.00	.051991
700100.00	4351600.00	.063159	700100.00	4351700.00	.077703
700100.00	4351800.00	.095468	700100.00	4351900.00	.116654
700100.00	4352000.00	.141217	700100.00	4352100.00	.171989
700100.00	4352200.00	.228848	700100.00	4352300.00	.221504
700100.00	4352400.00	.244824	700100.00	4352500.00	.263876
700100.00	4352600.00	.270101	700100.00	4352700.00	.260417
700100.00	4352800.00	.234674	700100.00	4352900.00	.197888
700100.00	4353000.00	.160826	700100.00	4353100.00	.129095
700100.00	4353200.00	.102366	700100.00	4353300.00	.082373
700200.00	4351300.00	.036754	700200.00	4351400.00	.043197
700200.00	4351500.00	.051112	700200.00	4351600.00	.061055
700200.00	4351700.00	.073047	700200.00	4351800.00	.087167
700200.00	4351900.00	.103526	700200.00	4352000.00	.121983
700200.00	4352100.00	.142891	700200.00	4352200.00	.163532
700200.00	4352300.00	.178670	700200.00	4352400.00	.192894
700200.00	4352500.00	.203347	700200.00	4352600.00	.205783
700200.00	4352700.00	.199120	700200.00	4352800.00	.184164
700200.00	4352900.00	.162947	700200.00	4353000.00	.139529
700200.00	4353100.00	.117364	700200.00	4353200.00	.098030
700200.00	4353300.00	.080926	700300.00	4351300.00	.036648

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 13C ,
13D , 32A , 39A , 39D , 65 , 67 , 68 , 69 , 72 , 73A ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
700300.00	4351400.00	.042556	700300.00	4351500.00	.049787
700300.00	4351600.00	.058227	700300.00	4351700.00	.068013
700300.00	4351800.00	.079291	700300.00	4351900.00	.091980
700300.00	4352000.00	.105869	700300.00	4352100.00	.120393
700300.00	4352200.00	.134091	700300.00	4352300.00	.145986
700300.00	4352400.00	.155735	700300.00	4352500.00	.161918
700300.00	4352600.00	.163041	700300.00	4352700.00	.158637
700300.00	4352800.00	.149229	700300.00	4352900.00	.136365
700300.00	4353000.00	.120858	700300.00	4353100.00	.105498
700300.00	4353200.00	.090918	700300.00	4353300.00	.077874
700400.00	4351300.00	.036117	700400.00	4351400.00	.041579
700400.00	4351500.00	.047878	700400.00	4351600.00	.055072
700400.00	4351700.00	.063203	700400.00	4351800.00	.072261
700400.00	4351900.00	.082142	700400.00	4352000.00	.092599
700400.00	4352100.00	.103154	700400.00	4352200.00	.113024
700400.00	4352300.00	.121744	700400.00	4352400.00	.128597
700400.00	4352500.00	.132582	700400.00	4352600.00	.133329
700400.00	4352700.00	.130715	700400.00	4352800.00	.124518
700400.00	4352900.00	.115916	700400.00	4353000.00	.105385
700400.00	4353100.00	.094162	700400.00	4353200.00	.083380
700400.00	4353300.00	.073160			

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: U238 ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 32A ,
39A , 39D , 69 , 72 , 73A ,

** CONC OF RADIONUC IN ATTOCURIES/M^3 **

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	6.293655	AT	(699500.00, 4352300.00)	DC	6.	2.700442	AT	(699700.00, 4352700.00)	DC
2.	3.850395	AT	(699700.00, 4352600.00)	DC	7.	2.182619	AT	(699400.00, 4352200.00)	DC
3.	3.658850	AT	(699500.00, 4352200.00)	DC	8.	1.558898	AT	(699600.00, 4352300.00)	DC
4.	2.913221	AT	(699600.00, 4352600.00)	DC	9.	1.302607	AT	(699600.00, 4352200.00)	DC
5.	2.866321	AT	(699400.00, 4352300.00)	DC	10.	1.245386	AT	(699500.00, 4352400.00)	DC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: TH ***
INCLUDING SOURCE(S): 13C , 13D , 65 , 67 , 68 ,

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	.425147	AT	(699600.00, 4352500.00)	DC	6.	.121410	AT	(699200.00, 4352100.00)	DC
2.	.232147	AT	(699200.00, 4352000.00)	DC	7.	.111828	AT	(699100.00, 4352000.00)	DC
3.	.220026	AT	(699700.00, 4352500.00)	DC	8.	.100400	AT	(699200.00, 4352400.00)	DC
4.	.180669	AT	(699700.00, 4352600.00)	DC	9.	.091822	AT	(699500.00, 4352500.00)	DC
5.	.132104	AT	(699600.00, 4352600.00)	DC	10.	.079407	AT	(699200.00, 4351900.00)	DC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 3F , 3G , 4A , 4C , 7A , 13B , 13C ,
13D , 32A , 39A , 39D , 65 , 67 , 68 , 69 , 72 , 73A ,

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	6.314874	AT	(699500.00, 4352300.00)	DC	6.	2.751171	AT	(699700.00, 4352700.00)	DC
2.	4.031064	AT	(699700.00, 4352600.00)	DC	7.	2.207382	AT	(699400.00, 4352200.00)	DC
3.	3.678275	AT	(699500.00, 4352200.00)	DC	8.	1.578936	AT	(699600.00, 4352300.00)	DC
4.	3.045326	AT	(699600.00, 4352600.00)	DC	9.	1.318455	AT	(699600.00, 4352200.00)	DC
5.	2.888981	AT	(699400.00, 4352300.00)	DC	10.	1.276563	AT	(699500.00, 4352400.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT

*** Message Summary For ISC2 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

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*** ISCLT2 Finishes Successfully ***
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