0301 0406150012

CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

CH2MHILL

ER-047/03
March 6, 2003

Mr. Richard B. Provencher, Director
Miamisburg Closure Project
U. S. Department of Energy
P. O. Box 66
Miamisburg, OH 45343-0066

ATTENTION: Robert S. Rothman

SUBJECT: Contract No. DE-AC24-03OH20152
PRS PACKAGES, FINAL

REFERENCE: Statement of Work Requirement 039 – PRS Documentation

Dear Mr. Provencher:

Rob Rothman from your office has approved the release of the following documents:

- PRS 282 Package, Final
- PRS 124 Package, Final
- PRS ~~430~~ 440 Package, Final 6mar03
- PRS 437-439 Package, Final
- PRS 423-428 Package, Final

No document changes were required based on public comments. If you or members of your staff have any questions regarding the documents, or if additional support is needed, please contact Dave Rakel at extension 4203.

Sincerely,

Monte A. Williams
Deputy Project Manager, Environmental Restoration

MAW/KMA:jdg

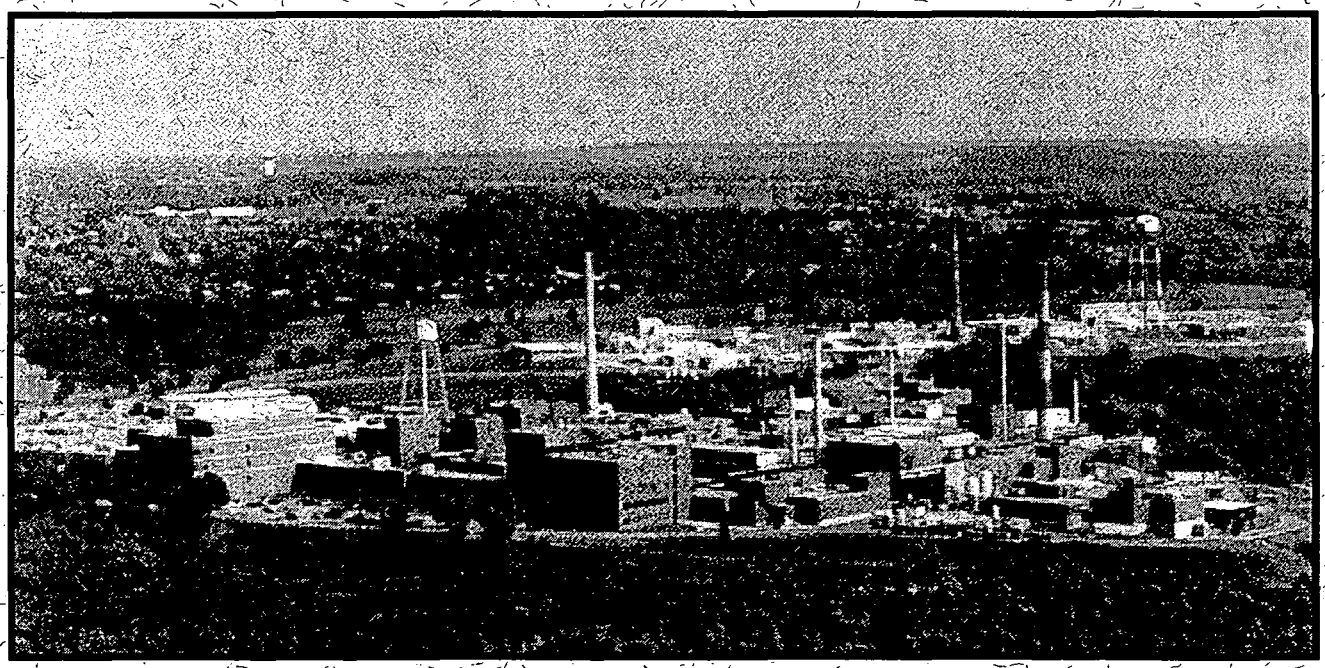
Enclosures

cc: David Seely, USEPA, (1) w/attachment
Brian Nickel, OEPA, (1) w/attachment
Ruth Vandegrift, ODH, (1) w/attachment
Paul Lucas, DOE/MCP, (1) w/attachment
Randy Tormey, DOE/OH, (1) w/attachment
Terry Tracy, DOE/HQ, (1) w/attachment
Dann Bird, MMCIC, (3) w/attachment
J. D. Bonfiglio, MESH, (1) w/attachment
John Fulton, CH2M HILL, w/o attachment
Monte Williams, CH2M HILL, (2) w/attachment
Dave Rakel, CH2M HILL, w/o attachment
Gene Valett, CH2M HILL, w/o attachment
Public Reading Room, (4) w/attachment
Admin Records, (2) w/attachment
DCC, (1) w/attachment

Environmental
Restoration
Program

Miamisburg Closure Project
Potential Release Site Package
PRS 124

Final
March 2003



The Mound Core Team
P.O. Box 66
Miamisburg, Ohio 45343-0066

December 2002

Mr. Daniel Bird, AICP
Planning Manager
Miamisburg Mound Community Improvement Corporation
720 Mound Road
COS Bldg. 4221
Miamisburg, Ohio 45342-6714

Dear Mr. Bird:

The Core Team, consisting of the U.S. Department of Energy Miamisburg Environmental Management Project (DOE-MEMP), U.S. Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA), appreciates your comment on the PRS 124 Package. Attached is our response.

Should the response to comments require additional detail, please contact Rob Rothman at (937) 865-3823 and we will gladly arrange a meeting or telephone conference.

Sincerely,

DOE/MEMP: _____ 12/11/02
Robert S. Rothman, Remedial Project Manager — date

USEPA: _____ 2/7/03
Timothy J. Fischer, Remedial Project Manager — date

OEPA: _____ 12/11/02
Brian K. Nickel, Project Manager — date

Response to Public Comments

from MMCIC
on PRS 124 Public Review Draft Package

Comment 1. From our review of the PRS 124 Public Review Draft, MMCIC concurs that a response action is necessary for this PRS. MMCIC would like to request a copy of the work plan for review when it becomes available. In addition, if not referenced in the work plan, MMCIC would like access to the data for review.

Response 1. It is good to receive positive feedback (MMCIC concurs that a response action is necessary for this PRS). When the Work Plan for PRS 124 is available, a courtesy copy will be provided to MMCIC. The data that are currently available are in the PRS Package. The On-Scene Coordinator Report will be based on the post-removal verification data. These data will also be available in the risk evaluation for the part of the property that contains PRS 124 (currently Phase III). In addition, MMCIC has a VistaMap seat. The data for PRS 124 will be made available in MEIMS, GIS, and VistaMap as the above reports are prepared.

Comment 2. MMCIC would like to be kept updated during the removal action. If during the course of the remedial action a different contamination is found, or the contaminants are found in different levels than originally determined, MMCIC would like to be informed.

Response 2. Keeping project participants informed of progress and changes as projects progress is the primary driver for several activities that MMCIC participates in; regularly scheduled Soils Project Meetings, monthly Progress Meetings (aka FFA Meeting), monthly Core Team meeting, monthly Environmental Restoration Progress Report.

Comment 3. It is MMCIC's understanding that the area will be restored to a natural state in accordance with the *Mound Reuse Plan*.

Response 3. The Core Team, DOE/MCP, and BWXTO currently expect to restore the site to near its original contours and provide ground cover plants.

MOUND

Environmental Restoration Program

MOUND PLANT POTENTIAL RELEASE SITE PACKAGE

Notice of Public Review Period

The following Potential Release Site (PRS) package is available for public review in the CERCLA Public Reading Room, 305 E. Central Ave., Miamisburg, Ohio. Public comment on this document will be accepted August 14, 2002 through September 14, 2002.

PRS 124: Building 48 Hillside

Questions can be referred to Paul Lucas at (937) 865-4578.

PRS 124 Package Tracking Sheet

REVISION	DESCRIPTION	DATE
WORKING DRAFT		**11 April 2001**
DRAFT	DOE/BWXTO review of working Draft on 16 April 2001. Distribute for Core Team evaluation (binning) in May 2001.	**16 April 2001**
DRAFT PROPOSED FINAL	PRS dispositioned by Core Team on 5/30/01 to require a Response Action. Regulator comments incorporated and document adjusted. Recommendation signed on 6/19/01.	**20 June 2001**
PUBLIC REVIEW DRAFT	Available for public review/comment 14 August – 14 September 2002.	**July 2002**
FINAL	Incorporated response to public comments, including comments from OEPA.	**March 2003**

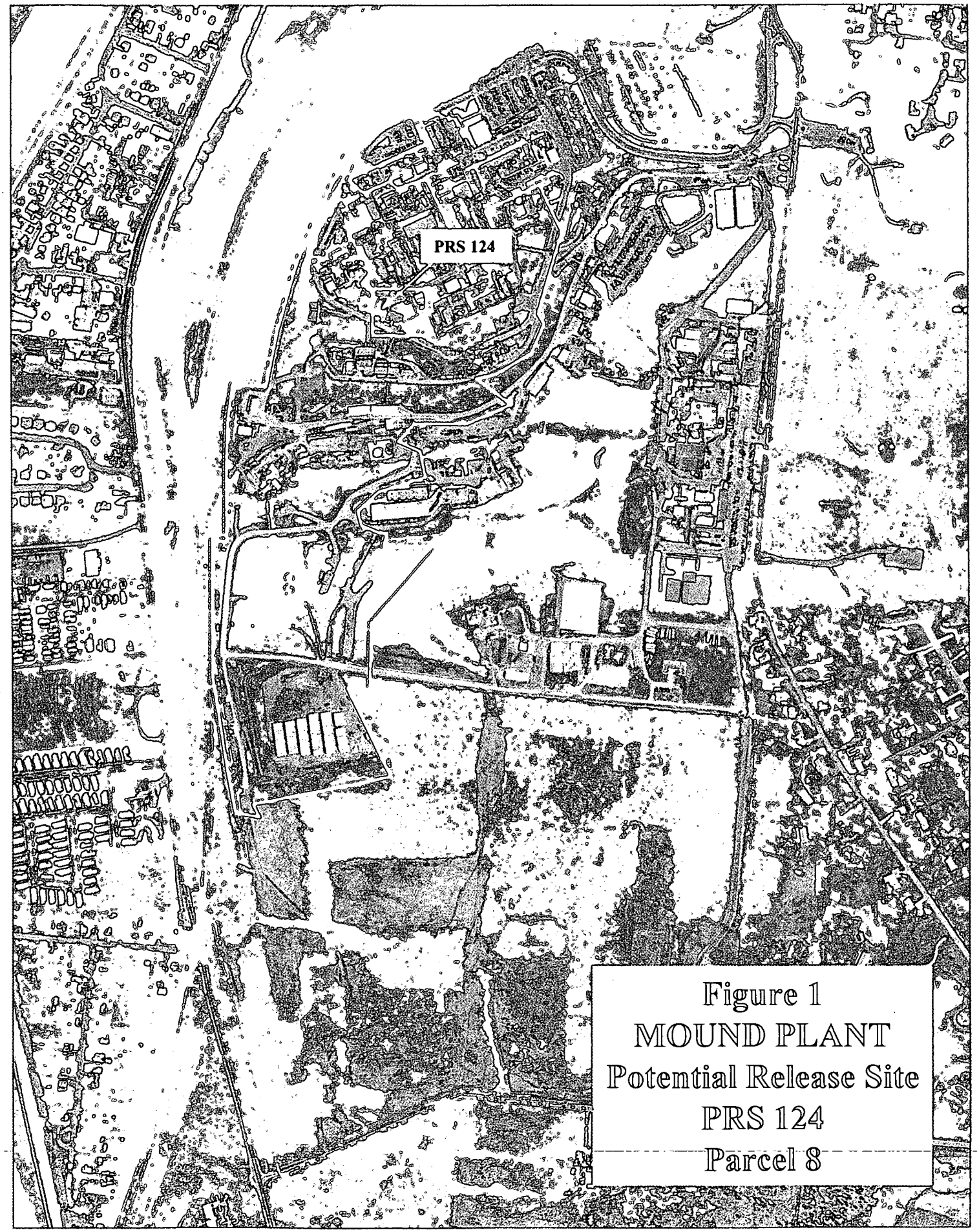
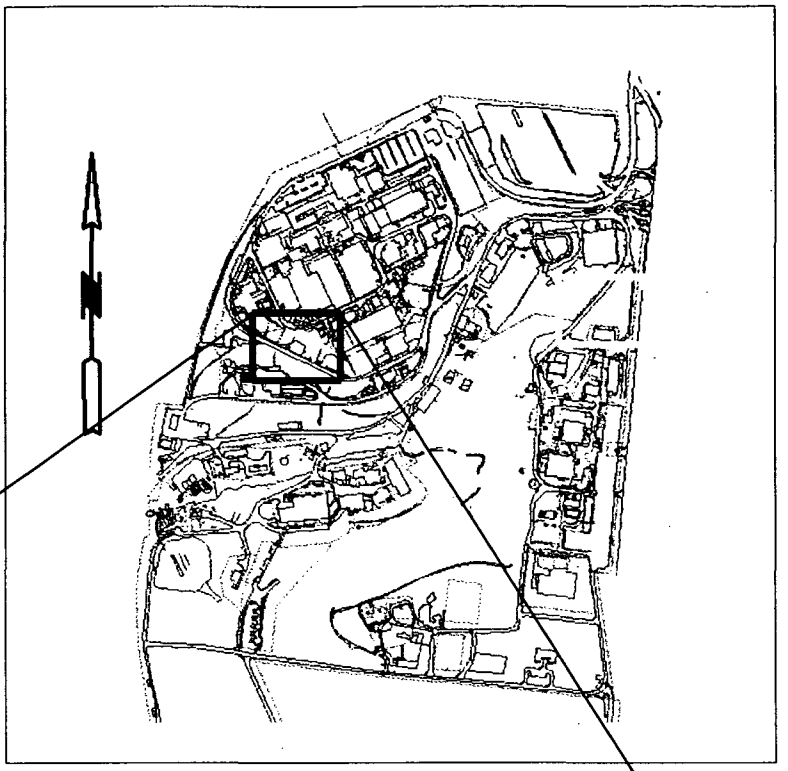
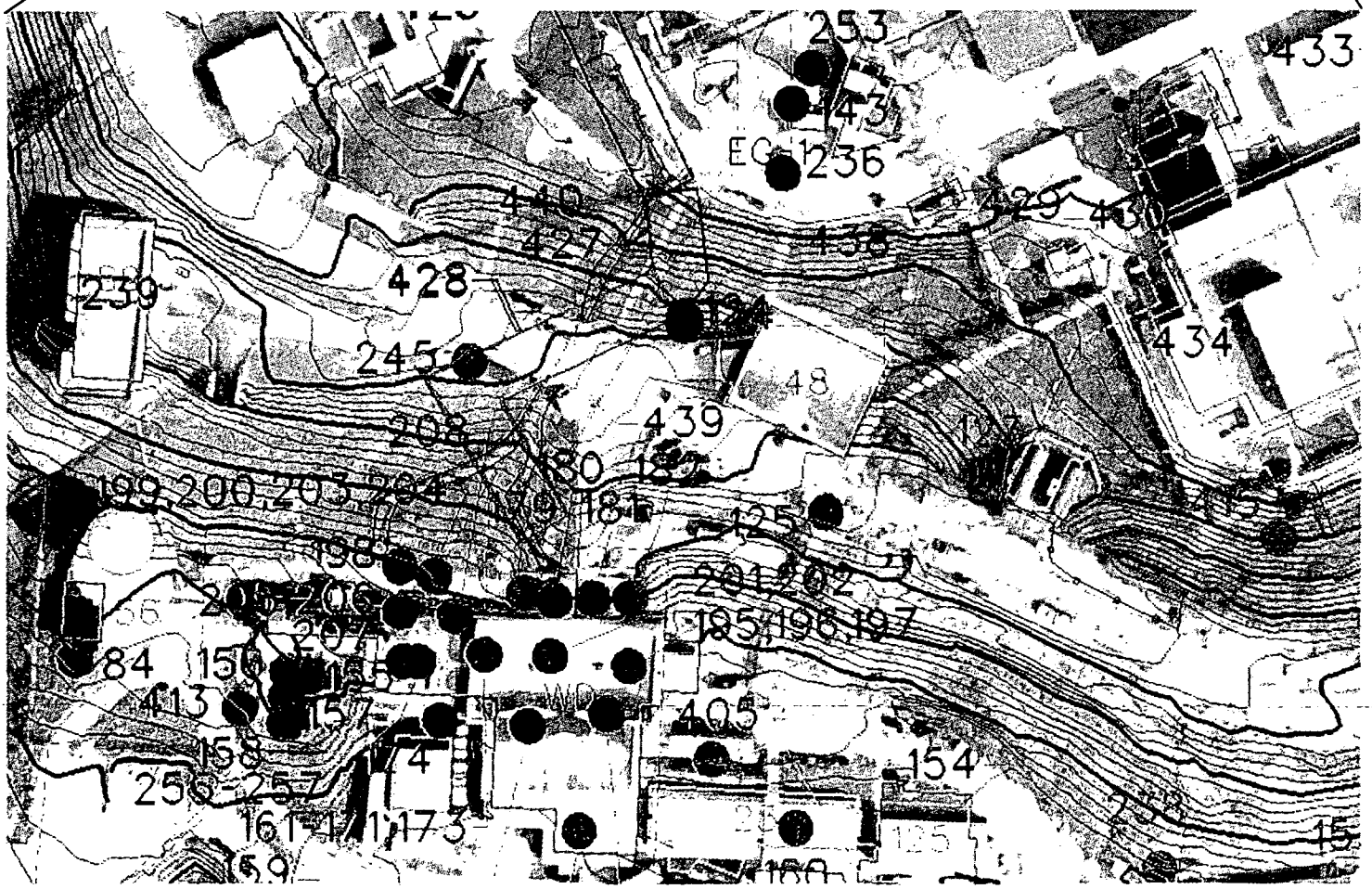


Figure 1
MOUND PLANT
Potential Release Site
PRS 124
Parcel 8

Figure 2
Mound Plant
PRS 124
Building 48 Hillside

On the map below:
- PRS number and location shown in black
- Fencing shown in red
- Elevation contours shown in brown
- Other PRS's shown in blue





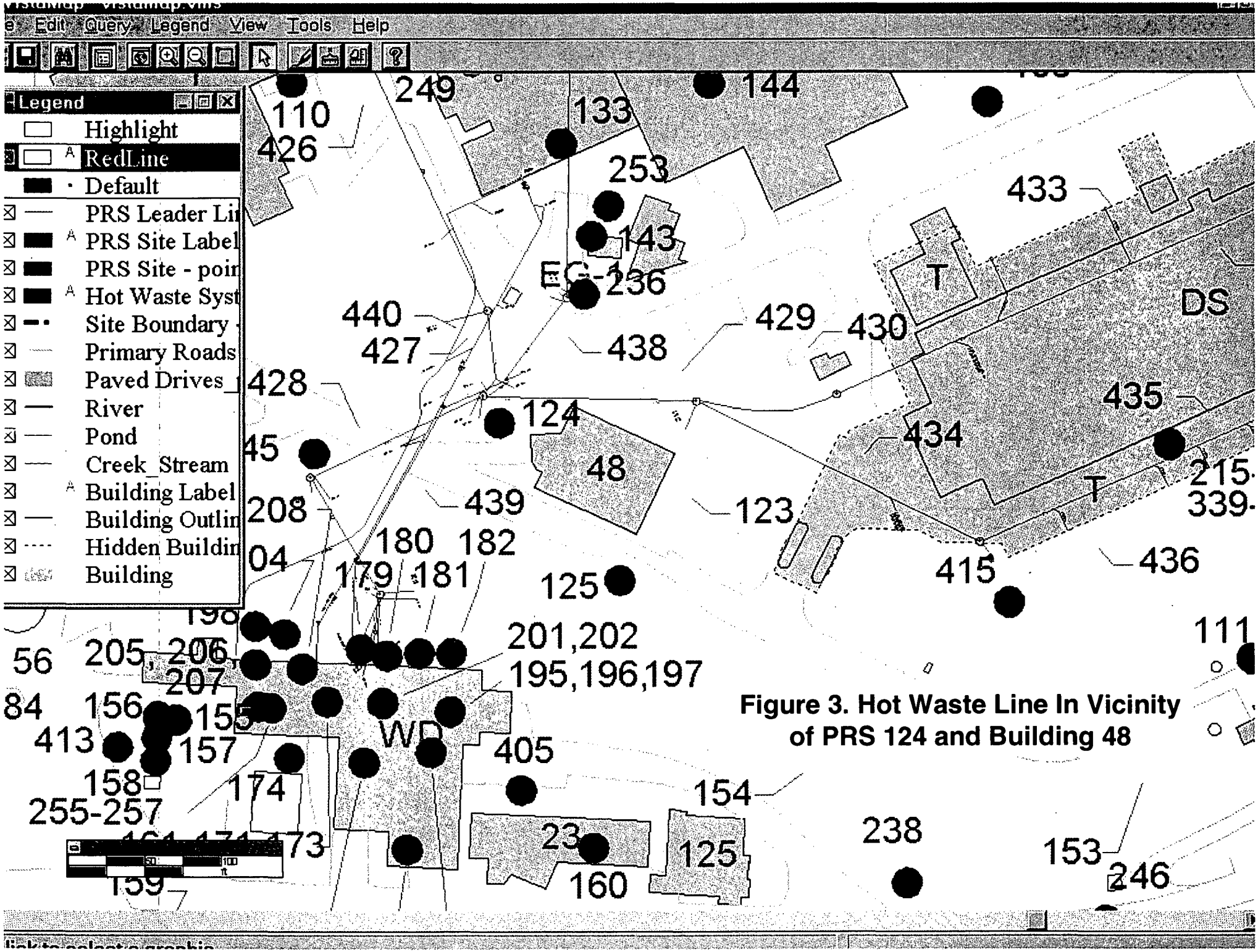


Figure 3. Hot Waste Line In Vicinity of PRS 124 and Building 48

Figure 4
Building 48 Hillside

PRS 124
Building 48 Hillside

PRS HISTORY:

The Operable Unit 9, Site Scoping Report: Volume 12—Site Summary Report (Reference 1) identifies PRS 124 as the Mound Plant Building 48 Hillside. This reference also declares that plutonium-238 in soil is the suspected contaminant of concern. GIS mapping/sampling information (Reference 2) indicates that the area of concern is located adjacent to a radiological process line manhole northwest of Building 48. Several Main Hill radiological process waste lines join near this location and continue to the Waste Disposal (WD) Building (Figure 3 and Reference 3). Reference 3 declares that "The contamination encountered at the Building 48 hillside is attributed to a release of 7.64 mCi of plutonium-238 in November 1967." The same incident is also documented in the Site Scoping Report: Volume 11—Spills and Response Actions (Reference 4). Additionally, see Reference 5, the incident report addressing this occurrence. It is noted that the subject wastewater spilled across the nearby road and into the storm drains.

BACKGROUND:

On November 9, 1967, 1500-2000 gallons of low-level radioactive wastewater was accidentally released during waste line repair (Reference 4). Soil sampling accomplished in support of a construction project (circa 1986) indicated plutonium-238 concentrations as high as 32 nCi/g. These concentrations required that the construction project be abandoned. Construction borings were backfilled and contamination was left in place for future D&D activities.

CONTAMINATION:

Table 1: Maximum of Historical Results above Screeing Levels

Location	Contaminant	Maximum Level	Units	Screening Level	Units
MND17-0557	Antimony	15.2	mg/kg	8.5	mg/kg
MND17-0557	Arsenic	**45.5**	mg/kg	10.6	mg/kg
MND17-0557	Potassium	**27273.0**	mg/kg	1900.0	mg/kg
SCR191	Plutonium-238	**2902.0**	pCi/g	55.0	pCi/g
MND17-0557	Thorium-230	**5.2**	pCi/g	2.0	pCi/g
SCR191	Thorium-232	**182.2**	pCi/g	1.47	pCi/g
MND17-0557	Uranium-238	5.4	pCi/g	1.3	pCi/g

Screening Level is background plus lesser of RBGV (10-6) or 1/10 Hazard Index

READING ROOM REFERENCES:

1) Operable Unit 9, Site Scoping Report: Volume 12—Site Summary Report, Final, 1994
3) Operable Unit 9, Site Scoping Report: Volume 3—Radiological Site Survey, Final, 1993
4) Operable Unit 9, Site Scoping Report: Volume 11—Spills and Response Actions, Final, March 1992
5) Incident: Involving Accidental Release of Liquid Radioactive Waste at Excavation at Tie-in Area on Hillside, November 17, 1967

OTHER REFERENCES:

2) GIS Mapping/Sampling Information

PREPARED BY:

Karen M. Arthur, Member of BWXTO Technical Staff
Erin K. Rothman, Member of ERQA Technical Staff
Mary Beth England, Member of BWXTO Technical Staff
Billy M. Farmer, Member of BWXTO Technical Staff
Joseph C. Geneczko, Member of BWXTO Technical Staff
W. David Gloeckler, Member of BWXTO Technical Staff
Floyd A. Hertweck, Jr., Member of BWXTO Technical Staff
Stephen S. Pawel, Member of BWXTO Technical Staff
Ronald P. Paulick, Member of BWXTO Technical Staff
Marcelious Robinson, Member of BWXTO Technical Staff
Nita M. Grice, Member of BWXTO Technical Staff

REVIEWED BY:

Richard Neff, Department of Energy/MEMP

HISTORICAL/TECHNICAL REVIEWER:

Dan Carfagno, Consultant for Ohio Environmental Protection Agency

MOUND PLANT
PRS 124

BUILDING 48 HILLSIDE

RECOMMENDATION:

Potential Release Site (PRS) 124 was identified due to a release on Nov. 9, 1967. 1,500 to 2,000 gallons of low-level radioactive wastewater were accidentally released during waste line repair. Several Main Hill radiological process waste lines join near this location and continue to the Waste Disposal (WD) Building. Soil Sampling accomplished in support of a construction project (Circa 1986) indicated Plutonium-238 concentrations as high as 32,000 pCi/g.

Therefore, a RESPONSE ACTION is recommended for PRS 124.

CONCURRENCE:

DOE/MEMP: _____ 6/19/01
Robert S. Rothman, Remedial Project Manager (date)

USEPA: Timothy J. Fischer 6/19/01
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from Aug 14-02 to Sept 14-02

☐ No comments were received during the comment period.

☑ Comment responses can be found on first page _____ of this package.

REFERENCE MATERIAL

PRS 124

Reference 1

DUPLICATE
Classification Code 29-01-01-07-12
Accession No. 9506325005

ENVIRONMENTAL RESTORATION PROGRAM

OPERABLE UNIT 9
SITE SCOPING REPORT:
VOLUME 12 - SITE SUMMARY REPORT

MOUND PLANT
MIAMISBURG, OHIO

December 1994

U.S. DEPARTMENT OF ENERGY
OHIO FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

FINAL

Description of History and Nature of Waste Handling						Hazardous Conditions and Incidents			Environmental Data		
No.	Site Name	Location	Status	Potential Hazardous Substances	Ref	Releases	Media	Ref	Analytes[a]	Results	Ref
118	M Building Soils	E-7	Grounds	Copper cyanide, Silver cyanide Machine oils, Solvents	4	Oils, Copper cyanide, Silver cyanide	S	10	1 14	SGS[b] Table B.4 Locations 1050, 1051, 1062 Table B.9 RSS[c] Locations S0162, S0163, S0252 (Appendix E in Ref. 6)	12 6
119	Room M-38 Metal Plating Rinse Water Sump (Tank 225)	E-7	Surplus	Rinse waters from metal plating operations. Possible contaminants include nickel, cadmium, silver, gold, manganese, cyanide, and aluminum. Sodium hydroxide solution Potassium permanganate	3, 4	None Suspected			No Data		
120	Room M-108 Metal Plating Rinse Water Tank (Tank 119)	E-7	In service	Rinse waters from metal plating operations. copper, gold, silver, nickel, aluminum, and uranium	3, 4	Silver cyanide	SW	10	No Data		
121	Vapor Degreasers	E-7	In service	Perclene D (perchloroethylene)	4, 5, 18	None Suspected			No Data		
122	Underground Radioactive Waste Lines (Main Hill)	E-6 F-6	Inactive	Alpha wastes from SW Bldg., R Bldg., and H Bldg. Wastewater from B Building Plutonium-238, Cobalt-60	4, 18	Suspected	S	4, 10	No Data		
123	Area 5, Radioactive Waste Line Break	F-6 F-7	Grounds	Cobalt-60, Cesium-137, Plutonium-238	1, 5, 18	Cobalt-60	S	1, 18	2, 14, 16	Table B.1 (Table III.3 in Ref. 6)	6
124	Building 48 Hillside	F-6	Inactive	Plutonium-238		Plutonium-238	S	6	14	Table B.1	6
125	Underground Sanitary Sewer Line G24	F-6	In service	Organic solvents, Plating Solutions, Laboratory chemicals, Nitric acid, Hydrochloric acid, Methylene chloride, Strong acids and bases		Suspected	S	5, 18	3, 4, 5, 6, 14, 16	Tables B.6, B.7, and B.8	7
126	Building 28 Solvent Storage Area	E-8	Grounds	Organic solvents (including alcohol, methylene chloride, and acetone)	4, 5, 9, 18	Suspected	S	4	1	SGS[b] Table B.4 Location 1054	12

Scoping Report
Vol. 12

Table A.1

1 - Soil Gas Survey - Freon 11, Freon 113, Trans-1,2-Dichloroethylene, Cis-1,2-Dichloroethylene, 1,1,1-Trichloroethane, Perchloroethylene, Trichloroethylene, Toluene
2 - Gamma Spectroscopy - Thorium-228, -230, Cobalt-60, Cesium-137, Radium-224, -226, -228, Americium-241, Actinium-227, Bismuth-207, Bismuth-210m, Potassium-40
3 - Target Analyte List
4 - Target Compound List (VOC)
5 - Target Compound List (SVOC)
6 - Target Compound List (Pesticides/Polychlorinated Biphenyl)
7 - Dioxins/Furans
8 - Extractable Petroleum Hydrocarbons (EPH)/Total Petroleum Hydrocarbons (TPH)
9 - Lithium
10 - Nitrate/Nitrite
11 - Chloride
12 - Explosives
13 - Plutonium-238
14 - Plutonium-238, Thorium-232
15 - Cobalt-60, Cesium-137, Radium-226, Americium-241
16 - Tritium

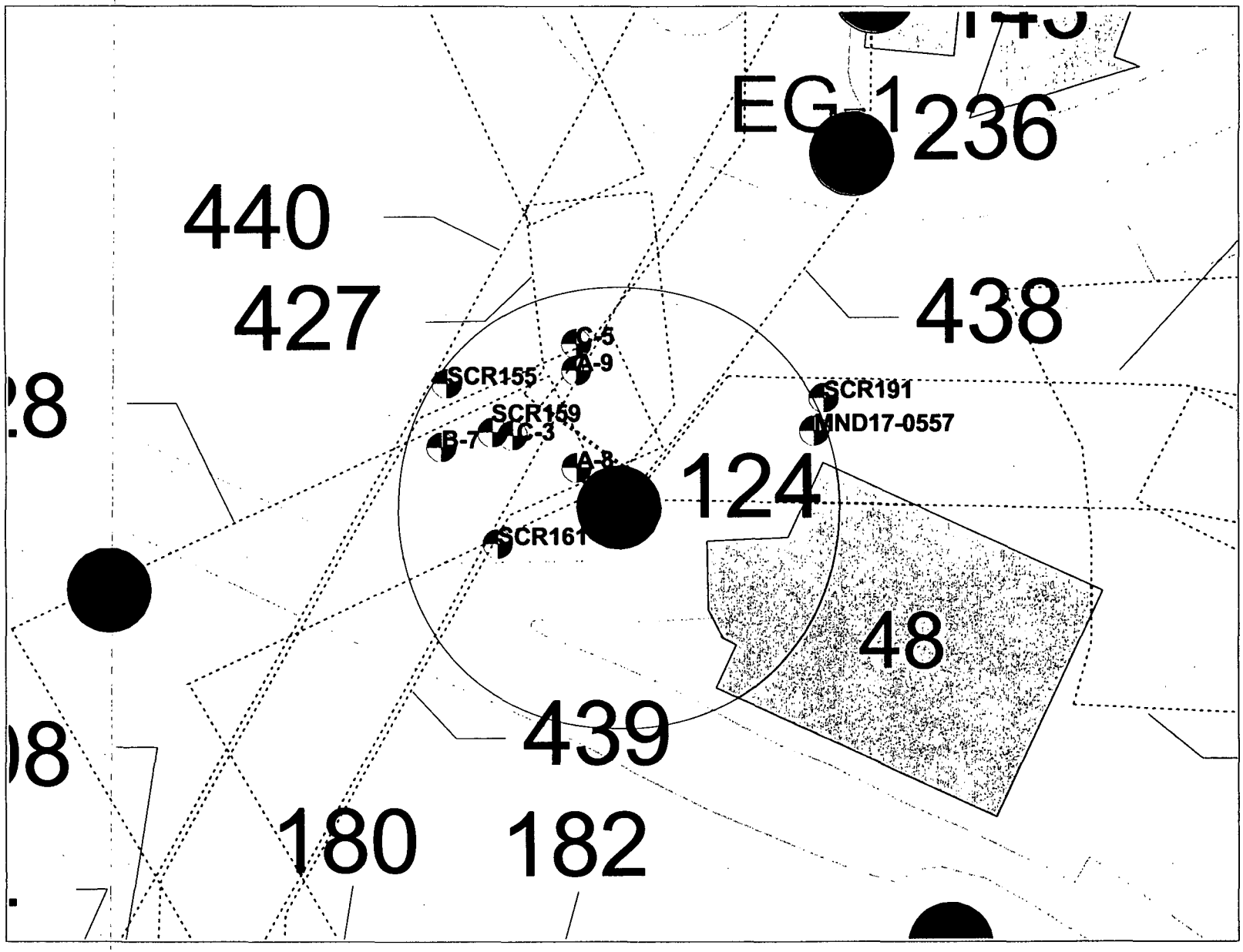
Reference List

1. DOE 1986 "Phase I: Installation Assessment Mound [DRAFT]."
2. DOE 1992a "Remedial Investigation/Feasibility Study, Operable Unit 9, Site-Wide Work Plan (Final)."
3. DOE 1992c "Mound Plant Underground Storage Tank Program Plan & Regulatory Status Review (Final)."
4. DOE 1993a "Site Scoping Report: Vol. 7 - Waste Management (FINAL)."
5. EPA 1988a "Preliminary Review/Visual Site Inspection for RCRA Facility Assessment of Mound Plant"
6. DOE 1993d "Operable Unit 9, Site Scping Report: Vol. 3 - Radiological Site Survey (FINAL)."
7. DOE 1993c "Operable Unit 3, Misc. Sites Limited Field Investigation Report."
8. DOE 1992d "Reconnaissance Sampling Report Decontamination & Decommissioning Areas, OU6, (FINAL)."
9. Fentiman 1990 "Characterization of Mound's Hazardous, Radioactive and Mixed Wastes."
10. DOE 1992f "Operable Unit 9, Site Scpoing Report: Vol. 9 - Spills and Response Actions (FINAL)."
11. Styron and Meyer 1981 "Potable Water Standards Project: Final Report."
12. DOE 1993b "Reconnaissance Sampling Report - Soil Gas Survey & Geophysical Investigations, Mound Plant Main Hill and SM/PP Hill (FINAL)."
13. DOE 1993d "Operable Unit 9, Site Scoping Report: Vol. 3 - Radiological Site Survey (FINAL)."
14. DOE 1991b "Main Hill Seeps, Operable Unit 2, On-Scene Coordinator Report for CERCLA Section 104 Remedial Action, West Powerhouse PCB Site."
15. Halford 1990 "Results of South Pond Sampling."
16. DOE 1993e "Operable Unit 4, Special Canal Sampling Report, Miami Erie Canal."
17. DOE 1990 "Preliminary Results of Reconnaissance Magnetic Survey of Mound Plant Areas 2, 6, 7, and C."
18. DOE 1992a "Remedial Investigation/Feasibility Study, Operable Unit 9, Site-Wide Work Plan (FINAL)."
19. Rogers 1975 "Mound Laboratory Environmental Plutonium Study, 1974."
20. DOE 1992h "Ground Water and Seep Water Quality Data Report Through First Quarter, FY92."
21. Dames and Moore 1976a, b "Potable Water Standards Project Mound Laboratory" and "Evaluation of the Buried Valley Aquifer Adjacent to Mound Laboratory."
22. DOE 1992l "Closure Report, Building 34 - Aviation Fuel Storage Tank."
23. DOE 1992j "Closure Report, Building 51 - Waste Storage Tank."
24. DOE 1994 "Operable Unit 1, Remedial Investigation Report."
25. EG&G 1994 "Active Underground Storage Tank Plan."

Update [illegible]
Scoping Report [illegible]

Reference 2

Historic Soil Sample Locations within 50 feet of PRS 124



Sample Detect
PRS Point
Fill
PRS Area
Area

N
W
E
S

MOUND
Environmental Restoration Geographic Information System

11/20/02

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
B-7	4007-0005	Borehole	19930823	1,1,1-Trichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	71-55-6	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,1,1-Trichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	71-55-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1,1-Trichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	71-55-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1,2,2-Tetrachloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	79-34-5	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,1,2,2-Tetrachloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	79-34-5	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1,2,2-Tetrachloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	79-34-5	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1,2-Trichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	79-00-5	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,1,2-Trichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	79-00-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1,2-Trichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	79-00-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1-Dichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	75-34-3	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,1-Dichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	75-34-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1-Dichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	75-34-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,1-Dichloroethene	11.0000	UG/KG		ORVOA	3.5	5.0	75-35-4	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,1-Dichloroethene	10.0000	UG/KG		ORVOA	5.5	7.5	75-35-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,1-Dichloroethene	9.0000	UG/KG		ORVOA	6.5	8.5	75-35-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2,4-Trichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	120-82-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,2,4-Trichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	120-82-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,2,4-Trichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	120-82-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	95-50-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,2-Dichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	95-50-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,2-Dichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	95-50-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	107-06-2	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,2-Dichloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	107-06-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,2-Dichloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	107-06-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichloroethene	11.0000	UG/KG		ORVOA	3.5	5.0	540-59-0	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,2-Dichloroethene	10.0000	UG/KG		ORVOA	5.5	7.5	540-59-0	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,2-Dichloroethene	9.0000	UG/KG		ORVOA	6.5	8.5	540-59-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,2-Dichloropropane	11.0000	UG/KG		ORVOA	3.5	5.0	78-87-5	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,2-Dichloropropane	10.0000	UG/KG		ORVOA	5.5	7.5	78-87-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,2-Dichloropropane	9.0000	UG/KG		ORVOA	6.5	8.5	78-87-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,3-cis-Dichloropropene	11.0000	UG/KG		ORVOA	3.5	5.0	10061-01-5	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,3-cis-Dichloropropene	10.0000	UG/KG		ORVOA	5.5	7.5	10061-01-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,3-cis-Dichloropropene	9.0000	UG/KG		ORVOA	6.5	8.5	10061-01-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,3-Dichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	541-73-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,3-Dichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	541-73-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,3-Dichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	541-73-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,3-trans-Dichloropropene	11.0000	UG/KG		ORVOA	3.5	5.0	10061-02-6	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	1,3-trans-Dichloropropene	10.0000	UG/KG		ORVOA	5.5	7.5	10061-02-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	1,3-trans-Dichloropropene	9.0000	UG/KG		ORVOA	6.5	8.5	10061-02-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1,4-Dichlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	106-46-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1,4-Dichlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	106-46-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1,4-Dichlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	106-46-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	1-chloro-4-phenoxybenzene	730.0000	UG/KG		ORSVO	3.5	5.0	7005-72-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	1-chloro-4-phenoxybenzene	720.0000	UG/KG		ORSVO	6.5	8.5	7005-72-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	1-chloro-4-phenoxybenzene	690.0000	UG/KG		ORSVO	5.5	7.5	7005-72-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,2'-oxybis(1-chloropropane)	730.0000	UG/KG		ORSVO	3.5	5.0	108-60-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,2'-oxybis(1-chloropropane)	720.0000	UG/KG		ORSVO	6.5	8.5	108-60-1	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,2'-oxybis(1-chloropropane)	690.0000	UG/KG		ORSVO	5.5	7.5	108-60-1	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	2,4,5-Trichlorophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	95-95-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4,5-Trichlorophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	95-95-4	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	2,4,5-Trichlorophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	95-95-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4,6-Trichlorophenol	730.0000	UG/KG		ORSVO	3.5	5.0	88-06-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4,6-Trichlorophenol	720.0000	UG/KG		ORSVO	6.5	8.5	88-06-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4,6-Trichlorophenol	690.0000	UG/KG		ORSVO	5.5	7.5	88-06-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4-Dichlorophenol	730.0000	UG/KG		ORSVO	3.5	5.0	120-83-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4-Dichlorophenol	720.0000	UG/KG		ORSVO	6.5	8.5	120-83-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4-Dichlorophenol	690.0000	UG/KG		ORSVO	5.5	7.5	120-83-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4-Dimethylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	105-67-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4-Dimethylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	105-67-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4-Dimethylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	105-67-9	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	2,4-Dinitrophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	51-28-5	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4-Dinitrophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	51-28-5	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	2,4-Dinitrophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	51-28-5	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,4-Dinitrotoluene	730.0000	UG/KG		ORSVO	3.5	5.0	121-14-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,4-Dinitrotoluene	720.0000	UG/KG		ORSVO	6.5	8.5	121-14-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,4-Dinitrotoluene	690.0000	UG/KG		ORSVO	5.5	7.5	121-14-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2,6-Dinitrotoluene	730.0000	UG/KG		ORSVO	3.5	5.0	606-20-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2,6-Dinitrotoluene	720.0000	UG/KG		ORSVO	6.5	8.5	606-20-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2,6-Dinitrotoluene	690.0000	UG/KG		ORSVO	5.5	7.5	606-20-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Butanone	11.0000	UG/KG		ORVOA	3.5	5.0	78-93-3	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	2-Butanone	10.0000	UG/KG		ORVOA	5.5	7.5	78-93-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	2-Butanone	9.0000	UG/KG		ORVOA	6.5	8.5	78-93-3	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Chloronaphthalene	730.0000	UG/KG		ORSVO	3.5	5.0	91-58-7	U	U	MND16	Soil	Unknown	

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
A-8	1008-0007	Borehole	19930817	2-Chloronaphthalene	720.0000	UG/KG		ORSVO	6.5	8.5	91-58-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Chloronaphthalene	690.0000	UG/KG		ORSVO	5.5	7.5	91-58-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Chlorophenol	730.0000	UG/KG		ORSVO	3.5	5.0	95-57-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Chlorophenol	720.0000	UG/KG		ORSVO	6.5	8.5	95-57-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Chlorophenol	690.0000	UG/KG		ORSVO	5.5	7.5	95-57-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Hexanone	11.0000	UG/KG		ORVOA	3.5	5.0	591-78-6	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	2-Hexanone	10.0000	UG/KG		ORVOA	5.5	7.5	591-78-6	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	2-Hexanone	9.0000	UG/KG		ORVOA	6.5	8.5	591-78-6	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Methylnaphthalene	730.0000	UG/KG		ORSVO	3.5	5.0	91-57-6	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Methylnaphthalene	720.0000	UG/KG		ORSVO	6.5	8.5	91-57-6	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Methylnaphthalene	690.0000	UG/KG		ORSVO	5.5	7.5	91-57-6	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Methylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	95-48-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Methylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	95-48-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Methylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	95-48-7	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	2-Nitroaniline	3700.0000	UG/KG		ORSVO	6.5	8.5	88-74-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Nitroaniline	3700.0000	UG/KG		ORSVO	3.5	5.0	88-74-4	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	2-Nitroaniline	3600.0000	UG/KG		ORSVO	5.5	7.5	88-74-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	2-Nitrophenol	730.0000	UG/KG		ORSVO	3.5	5.0	88-75-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	2-Nitrophenol	720.0000	UG/KG		ORSVO	6.5	8.5	88-75-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	2-Nitrophenol	690.0000	UG/KG		ORSVO	5.5	7.5	88-75-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	3,3'-Dichlorobenzidine	730.0000	UG/KG		ORSVO	3.5	5.0	91-94-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	3,3'-Dichlorobenzidine	720.0000	UG/KG		ORSVO	6.5	8.5	91-94-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	3,3'-Dichlorobenzidine	690.0000	UG/KG		ORSVO	5.5	7.5	91-94-1	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	3-Nitroaniline	3700.0000	UG/KG		ORSVO	6.5	8.5	99-09-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	3-Nitroaniline	3700.0000	UG/KG		ORSVO	3.5	5.0	99-09-2	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	3-Nitroaniline	3600.0000	UG/KG		ORSVO	5.5	7.5	99-09-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	4,6-Dinitro-o-Cresol	3700.0000	UG/KG		ORSVO	6.5	8.5	534-52-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4,6-Dinitro-o-Cresol	3700.0000	UG/KG		ORSVO	3.5	5.0	534-52-1	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	4,6-Dinitro-o-Cresol	3600.0000	UG/KG		ORSVO	5.5	7.5	534-52-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Bromophenyl-phenyl Ether	730.0000	UG/KG		ORSVO	3.5	5.0	101-55-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Bromophenyl-phenyl Ether	720.0000	UG/KG		ORSVO	6.5	8.5	101-55-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Bromophenyl-phenyl Ether	690.0000	UG/KG		ORSVO	5.5	7.5	101-55-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Chloro-3-methylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	59-50-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Chloro-3-methylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	59-50-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Chloro-3-methylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	59-50-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Chloroaniline	730.0000	UG/KG		ORSVO	3.5	5.0	106-47-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Chloroaniline	720.0000	UG/KG		ORSVO	6.5	8.5	106-47-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Chloroaniline	690.0000	UG/KG		ORSVO	5.5	7.5	106-47-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Methyl-2-pentanone	11.0000	UG/KG		ORVOA	3.5	5.0	108-10-1	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	4-Methyl-2-pentanone	10.0000	UG/KG		ORVOA	5.5	7.5	108-10-1	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	4-Methyl-2-pentanone	9.0000	UG/KG		ORVOA	6.5	8.5	108-10-1	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Methylphenol	730.0000	UG/KG		ORSVO	3.5	5.0	106-44-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	4-Methylphenol	720.0000	UG/KG		ORSVO	6.5	8.5	106-44-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	4-Methylphenol	690.0000	UG/KG		ORSVO	5.5	7.5	106-44-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	4-Nitroaniline	3700.0000	UG/KG		ORSVO	6.5	8.5	100-01-6	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Nitroaniline	3700.0000	UG/KG		ORSVO	3.5	5.0	100-01-6	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	4-Nitroaniline	3600.0000	UG/KG		ORSVO	5.5	7.5	100-01-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	4-Nitrophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	100-02-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	4-Nitrophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	100-02-7	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	4-Nitrophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	100-02-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Acenaphthene	730.0000	UG/KG		ORSVO	3.5	5.0	83-32-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Acenaphthene	720.0000	UG/KG		ORSVO	6.5	8.5	83-32-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Acenaphthene	690.0000	UG/KG		ORSVO	5.5	7.5	83-32-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Acenaphthylene	730.0000	UG/KG		ORSVO	3.5	5.0	208-96-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Acenaphthylene	720.0000	UG/KG		ORSVO	6.5	8.5	208-96-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Acenaphthylene	690.0000	UG/KG		ORSVO	5.5	7.5	208-96-8	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Acetone	43.0000	UG/KG		ORVOA	6.5	8.5	67-64-1		UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Acetone	34.0000	UG/KG		ORVOA	3.5	5.0	67-64-1		UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Acetone	17.0000	UG/KG		ORVOA	5.5	7.5	67-64-1		J	MND16	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Actinium	0.3500	PCI/G		RAD	0.5	4.0	7440-34-8	U		MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Actinium	0.3200	PCI/G		RAD	4.0	8.0	7440-34-8	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Actinium	0.2500	PCI/G		RAD	8.0	12.0	7440-34-8	U		MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Actinium	0.2300	PCI/G		RAD	0.0	0.5	7440-34-8	U		MND17	Soil	Split spoon	
A-8	A-9	A-10	A-11	A-12	A-13	A-14	A-15	A-16	A-17	A-18	A-19	A-20	A-21	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aluminum	10400.0000	MG/KG		INORG	3.5	5.0	7429-90-5			MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Aluminum	6140.0000	MG/KG		INORG	5.5	7.5	7429-90-5		J	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Americium-241	1.1000	PCI/G		RAD	5.5	7.5	14596-10-2			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Americium-241	0.1700	PCI/G	0.1700	RAD	6.5	8.5	14596-10-2	U		MND16	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Americium-241	0.0900	PCI/G		RAD	4.0	8.0	14596-10-2	U		MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Americium-241	0.0700	PCI/G		RAD	0.5	4.0	14596-10-2	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Americium-241	0.0700	PCI/G		RAD	8.0	12.0	14596-10-2	U		MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Americium-241	0.0500	PCI/G		RAD	0.0	0.5	14596-10-2	U		MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Anthracene	730.0000	UG/KG		ORSVO	3.5	5.0	120-12-7	U	U	MND16	Soil	Unknown	

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
A-8	1008-0007	Borehole	19930817	Anthracene	720.0000	UG/KG		ORSVO	6.5	8.5	120-12-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Anthracene	690.0000	UG/KG		ORSVO	5.5	7.5	120-12-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Antimony	40.0000	MG/KG		INORG	5.5	7.5	7440-36-0	U	R	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Antimony	16.7000	MG/KG		INORG	3.5	5.0	7440-36-0	U	UJ	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Antimony	16.6000	MG/KG		INORG	6.5	8.5	7440-36-0	U	R	MND16	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Antimony	15.2460	MG/KG		INORG	0.0	0.5	7440-36-0			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Antimony	4.3576	MG/KG		INORG	4.0	8.0	7440-36-0			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Antimony	3.1624	MG/KG		INORG	8.0	12.0	7440-36-0			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Antimony	3.0374	MG/KG		INORG	0.5	4.0	7440-36-0			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1016	37.0000	UG/KG		ORPPB	3.5	5.0	12674-11-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1016	36.0000	UG/KG		ORPPB	6.5	8.5	12674-11-2	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1016	35.0000	UG/KG		ORPPB	5.5	7.5	12674-11-2	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1221	75.0000	UG/KG		ORPPB	5.5	7.5	11104-28-2	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1221	73.0000	UG/KG		ORPPB	3.5	5.0	11104-28-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1221	72.0000	UG/KG		ORPPB	6.5	8.5	11104-28-2	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1232	37.0000	UG/KG		ORPPB	3.5	5.0	11141-16-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1232	36.0000	UG/KG		ORPPB	6.5	8.5	11141-16-5	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1232	35.0000	UG/KG		ORPPB	5.5	7.5	11141-16-5	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1242	37.0000	UG/KG		ORPPB	3.5	5.0	53469-21-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1242	36.0000	UG/KG		ORPPB	6.5	8.5	53469-21-9	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1242	35.0000	UG/KG		ORPPB	5.5	7.5	53469-21-9	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1248	37.0000	UG/KG		ORPPB	3.5	5.0	12672-29-6	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1248	36.0000	UG/KG		ORPPB	6.5	8.5	12672-29-6	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1248	35.0000	UG/KG		ORPPB	5.5	7.5	12672-29-6	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1254	37.0000	UG/KG		ORPPB	3.5	5.0	11097-69-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1254	36.0000	UG/KG		ORPPB	6.5	8.5	11097-69-1	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1254	35.0000	UG/KG		ORPPB	5.5	7.5	11097-69-1	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Aroclor-1260	37.0000	UG/KG		ORPPB	3.5	5.0	11096-82-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Aroclor-1260	36.0000	UG/KG		ORPPB	6.5	8.5	11096-82-5	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Aroclor-1260	35.0000	UG/KG		ORPPB	5.5	7.5	11096-82-5	U	UJ	MND16	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Arsenic	45.4690	MG/KG	100.0000	INORG	0.5	4.0	7440-38-2			MND17	Soil	Split spoon	2
MND17-0557	0557-5008	Borehole	19950823	Arsenic	28.9570	MG/KG	100.0000	INORG	4.0	8.0	7440-38-2			MND17	Soil	Split spoon	2
MND17-0557	0557-5012	Borehole	19950823	Arsenic	10.8760	MG/KG	100.0000	INORG	8.0	12.0	7440-38-2			MND17	Soil	Split spoon	2
A-9	1009-0006	Borehole	19930817	Arsenic	4.7000	MG/KG		INORG	5.5	7.5	7440-38-2			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Arsenic	3.1000	MG/KG		INORG	6.5	8.5	7440-38-2		J	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Arsenic	3.0000	MG/KG		INORG	3.5	5.0	7440-38-2			MND16	Soil	Unknown	
MND17-0557	0557-5001	Borehole	19950822	Arsenic	-20.2150	MG/KG	100.0000	INORG	0.0	0.5	7440-38-2			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Barium	886.1500	MG/KG	2000.0000	INORG	4.0	8.0	7440-39-3			MND17	Soil	Split spoon	2
MND17-0557	0557-5001	Borehole	19950822	Barium	261.8900	MG/KG	2000.0000	INORG	0.0	0.5	7440-39-3			MND17	Soil	Split spoon	2
MND17-0557	0557-5004	Borehole	19950823	Barium	222.0600	MG/KG	2000.0000	INORG	0.5	4.0	7440-39-3			MND17	Soil	Split spoon	2
MND17-0557	0557-5012	Borehole	19950823	Barium	205.4600	MG/KG	2000.0000	INORG	8.0	12.0	7440-39-3			MND17	Soil	Split spoon	2
A-8	1008-0007	Borehole	19930817	Barium	85.9000	MG/KG		INORG	6.5	8.5	7440-39-3	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Barium	52.6000	MG/KG		INORG	3.5	5.0	7440-39-3	B		MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Barium	28.0000	MG/KG		INORG	5.5	7.5	7440-39-3	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzene	11.0000	UG/KG		ORVOA	3.5	5.0	71-43-2	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Benzene	10.0000	UG/KG		ORVOA	5.5	7.5	71-43-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Benzene	9.0000	UG/KG		ORVOA	6.5	8.5	71-43-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(a)anthracene	730.0000	UG/KG		ORSVO	3.5	5.0	56-55-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(a)anthracene	720.0000	UG/KG		ORSVO	6.5	8.5	56-55-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(a)anthracene	690.0000	UG/KG		ORSVO	5.5	7.5	56-55-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(a)pyrene	730.0000	UG/KG		ORSVO	3.5	5.0	50-32-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(a)pyrene	720.0000	UG/KG		ORSVO	6.5	8.5	50-32-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(a)pyrene	690.0000	UG/KG		ORSVO	5.5	7.5	50-32-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(b)fluoranthene	730.0000	UG/KG		ORSVO	3.5	5.0	205-99-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(b)fluoranthene	720.0000	UG/KG		ORSVO	6.5	8.5	205-99-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(b)fluoranthene	690.0000	UG/KG		ORSVO	5.5	7.5	205-99-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(g,h,i)perylene	730.0000	UG/KG		ORSVO	3.5	5.0	191-24-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(g,h,i)perylene	720.0000	UG/KG		ORSVO	6.5	8.5	191-24-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(g,h,i)perylene	690.0000	UG/KG		ORSVO	5.5	7.5	191-24-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Benzo(k)fluoranthene	730.0000	UG/KG		ORSVO	3.5	5.0	207-08-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Benzo(k)fluoranthene	720.0000	UG/KG		ORSVO	6.5	8.5	207-08-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Benzo(k)fluoranthene	690.0000	UG/KG		ORSVO	5.5	7.5	207-08-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Beryllium	1.1000	MG/KG		INORG	5.5	7.5	7440-41-7	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Beryllium	1.0000	MG/KG		INORG	6.5	8.5	7440-41-7	B		MND16	Soil	Split spoon	1
B-7	4007-0005	Borehole	19930823	Beryllium	0.7800	MG/KG		INORG	3.5	5.0	7440-41-7	B		MND16	Soil	Unknown	1
B-7	4007-0005	Borehole	19930823	Bis(2-chloroethoxy)methane	730.0000	UG/KG		ORSVO	3.5	5.0	111-91-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Bis(2-chloroethoxy)methane	720.0000	UG/KG		ORSVO	6.5	8.5	111-91-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bis(2-chloroethoxy)methane	690.0000	UG/KG		ORSVO	5.5	7.5	111-91-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bis(2-chloroethyl)ether	730.0000	UG/KG		ORSVO	3.5	5.0	111-44-4	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Bis(2-chloroethyl)ether	720.0000	UG/KG		ORSVO	6.5	8.5	111-44-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Bis(2-chloroethyl)ether	690.0000	UG/KG		ORSVO	5.5	7.5	111-44-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bis(2-ethylhexyl)phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	117-81-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Bis(2-ethylhexyl)phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	117-81-7	U	U	MND16	Soil	Split spoon	

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
A-9	1009-0006	Borehole	19930817	Bis(2-ethylhexyl)phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	117-81-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bromodichloromethane	11.0000	UG/KG		ORVOA	3.5	5.0	75-27-4	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Bromodichloromethane	10.0000	UG/KG		ORVOA	5.5	7.5	75-27-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Bromodichloromethane	9.0000	UG/KG		ORVOA	6.5	8.5	75-27-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bromoform	11.0000	UG/KG		ORVOA	3.5	5.0	75-25-2	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Bromoform	10.0000	UG/KG		ORVOA	5.5	7.5	75-25-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Bromoform	9.0000	UG/KG		ORVOA	6.5	8.5	75-25-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Bromomethane	11.0000	UG/KG		ORVOA	3.5	5.0	74-83-9	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Bromomethane	10.0000	UG/KG		ORVOA	5.5	7.5	74-83-9	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Bromomethane	9.0000	UG/KG		ORVOA	6.5	8.5	74-83-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Butyl Benzyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	85-68-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Butyl Benzyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	85-68-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Butyl Benzyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	85-68-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Cadmium	5.3000	MG/KG		INORG	5.5	7.5	7440-43-9	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Cadmium	2.2000	MG/KG		INORG	6.5	8.5	7440-43-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Cadmium	2.2000	MG/KG		INORG	3.5	5.0	7440-43-9	U	UJ	MND16	Soil	Unknown	
MND17-0557	0557-5012	Borehole	19950823	Cadmium	-21.5590	MG/KG	20.0000	INORG	8.0	12.0	7440-43-9			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Cadmium	-22.7620	MG/KG	20.0000	INORG	4.0	8.0	7440-43-9			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Cadmium	-43.7810	MG/KG	20.0000	INORG	0.0	0.5	7440-43-9			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Cadmium	-45.8710	MG/KG	20.0000	INORG	0.5	4.0	7440-43-9			MND17	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Calcium	244000.0000	MG/KG		INORG	5.5	7.5	7440-70-2		J	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Calcium	222000.0000	MG/KG		INORG	3.5	5.0	7440-70-2			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Calcium	146000.0000	MG/KG		INORG	6.5	8.5	7440-70-2			MND16	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Calcium	103594.0000	MG/KG		INORG	8.0	12.0	7440-70-2			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Calcium	81056.0000	MG/KG		INORG	4.0	8.0	7440-70-2			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Calcium	48141.0000	MG/KG		INORG	0.5	4.0	7440-70-2			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Calcium	31712.0000	MG/KG		INORG	0.0	0.5	7440-70-2			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Carbazole	730.0000	UG/KG		ORSVO	3.5	5.0	86-74-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Carbazole	720.0000	UG/KG		ORSVO	6.5	8.5	86-74-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Carbazole	690.0000	UG/KG		ORSVO	5.5	7.5	86-74-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Carbon Disulfide	11.0000	UG/KG		ORVOA	3.5	5.0	75-15-0	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Carbon Disulfide	10.0000	UG/KG		ORVOA	5.5	7.5	75-15-0	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Carbon Disulfide	9.0000	UG/KG		ORVOA	6.5	8.5	75-15-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Carbon Tetrachloride	11.0000	UG/KG		ORVOA	3.5	5.0	56-23-5	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Carbon Tetrachloride	10.0000	UG/KG		ORVOA	5.5	7.5	56-23-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Carbon Tetrachloride	9.0000	UG/KG		ORVOA	6.5	8.5	56-23-5	U	U	MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Cesium-137	0.2000	PCI/G	0.2000	RAD	3.5	5.0	10045-97-3	U		MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Cesium-137	0.1200	PCI/G	0.1200	RAD	3.5	5.0	10045-97-3	U		MND16	Soil	Unknown	
MND17-0557	0557-5001	Borehole	19950822	Cesium-137	0.0800	PCI/G		RAD	0.0	0.5	10045-97-3			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Cesium-137	0.0500	PCI/G		RAD	0.5	4.0	10045-97-3	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Cesium-137	0.0400	PCI/G		RAD	8.0	12.0	10045-97-3	U		MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Cesium-137	0.0400	PCI/G		RAD	4.0	8.0	10045-97-3	U		MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chlorobenzene	11.0000	UG/KG		ORVOA	3.5	5.0	108-90-7	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Chlorobenzene	10.0000	UG/KG		ORVOA	5.5	7.5	108-90-7	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chlorobenzene	9.0000	UG/KG		ORVOA	6.5	8.5	108-90-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chloroethane	11.0000	UG/KG		ORVOA	3.5	5.0	75-00-3	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Chloroethane	10.0000	UG/KG		ORVOA	5.5	7.5	75-00-3	U	UJ	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chloroethane	9.0000	UG/KG		ORVOA	6.5	8.5	75-00-3	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chloroform	11.0000	UG/KG		ORVOA	3.5	5.0	67-66-3	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Chloroform	10.0000	UG/KG		ORVOA	5.5	7.5	67-66-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chloroform	9.0000	UG/KG		ORVOA	6.5	8.5	67-66-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chloromethane	11.0000	UG/KG		ORVOA	3.5	5.0	74-87-3	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Chloromethane	10.0000	UG/KG		ORVOA	5.5	7.5	74-87-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chloromethane	9.0000	UG/KG		ORVOA	6.5	8.5	74-87-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Chromium	16.6000	MG/KG		INORG	6.5	8.5	7440-47-3			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chromium	12.4000	MG/KG		INORG	3.5	5.0	7440-47-3		J	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Chromium	11.9000	MG/KG		INORG	5.5	7.5	7440-47-3		J	MND16	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Chromium-HI	-409.4300	MG/KG	100.0000	INORG	0.0	0.5	7440-47-3HI			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Chromium-HI	-1053.1000	MG/KG	100.0000	INORG	4.0	8.0	7440-47-3HI			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Chromium-HI	-1189.1000	MG/KG	100.0000	INORG	0.5	4.0	7440-47-3HI			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Chromium-HI	-1224.3000	MG/KG	100.0000	INORG	8.0	12.0	7440-47-3HI			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Chromium-LO	301.1700	MG/KG		INORG	4.0	8.0	7440-47-3LO			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Chromium-LO	299.5200	MG/KG		INORG	0.5	4.0	7440-47-3LO			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Chromium-LO	153.6500	MG/KG		INORG	8.0	12.0	7440-47-3LO			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Chromium-LO	135.3300	MG/KG		INORG	0.0	0.5	7440-47-3LO			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Chrysene	730.0000	UG/KG		ORSVO	3.5	5.0	218-01-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Chrysene	720.0000	UG/KG		ORSVO	6.5	8.5	218-01-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Chrysene	690.0000	UG/KG		ORSVO	5.5	7.5	218-01-9	U	U	MND16	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Cobalt	260.5500	MG/KG		INORG	8.0	12.0	7440-48-4			MND17	Soil	Split spoon	2
MND17-0557	0557-5008	Borehole	19950823	Cobalt	204.6900	MG/KG		INORG	4.0	8.0	7440-48-4			MND17	Soil	Split spoon	2
MND17-0557	0557-5004	Borehole	19950823	Cobalt	191.1800	MG/KG		INORG	0.5	4.0	7440-48-4			MND17	Soil	Split spoon	2
MND17-0557	0557-5001	Borehole	19950822	Cobalt	115.6700	MG/KG		INORG	0.0	0.5	7440-48-4			MND17	Soil	Split spoon	2
A-8	1008-0007	Borehole	19930817	Cobalt	8.3000	MG/KG		INORG	6.5	8.5	7440-48-4	B		MND16	Soil	Split spoon	

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
B-7	4007-0005	Borehole	19930823	Cobalt	6.8000	MG/KG		INORG	3.5	5.0	7440-48-4	B		MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Cobalt	5.3000	MG/KG		INORG	5.5	7.5	7440-48-4	U	U	MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Cobalt-60	0.2800	PCI/G	0.2200	RAD	3.5	5.0	10198-40-0	U		MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Cobalt-60	0.1300	PCI/G	0.1300	RAD	3.5	5.0	10198-40-0	U		MND16	Soil	Unknown	
MND17-0557	0557-5004	Borehole	19950823	Cobalt-60	0.0500	PCI/G		RAD	0.5	4.0	10198-40-0	U		MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Cobalt-60	0.0500	PCI/G		RAD	4.0	8.0	10198-40-0	U		MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Cobalt-60	0.0400	PCI/G		RAD	0.0	0.5	10198-40-0	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Cobalt-60	0.0300	PCI/G		RAD	8.0	12.0	10198-40-0	U		MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Copper	52.9390	MG/KG		INORG	0.5	4.0	7440-50-8			MND17	Soil	Split spoon	2
MND17-0557	0557-5008	Borehole	19950823	Copper	44.2590	MG/KG		INORG	4.0	8.0	7440-50-8			MND17	Soil	Split spoon	2
MND17-0557	0557-5012	Borehole	19950823	Copper	31.9380	MG/KG		INORG	8.0	12.0	7440-50-8			MND17	Soil	Split spoon	2
A-8	1008-0007	Borehole	19930817	Copper	12.6000	MG/KG		INORG	6.5	8.5	7440-50-8			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Copper	8.5000	MG/KG		INORG	3.5	5.0	7440-50-8	B		MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Copper	7.0000	MG/KG		INORG	5.5	7.5	7440-50-8	B		MND16	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Copper	-42.6360	MG/KG		INORG	0.0	0.5	7440-50-8			MND17	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Cyanide	0.5500	MG/KG		INORG	6.5	8.5	57-12-5	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Cyanide	0.5500	MG/KG		INORG	3.5	5.0	57-12-5	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Cyanide	0.5300	MG/KG		INORG	5.5	7.5	57-12-5	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dibenz(a,h)anthracene	730.0000	UG/KG		ORSVO	3.5	5.0	53-70-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Dibenz(a,h)anthracene	720.0000	UG/KG		ORSVO	6.5	8.5	53-70-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dibenz(a,h)anthracene	690.0000	UG/KG		ORSVO	5.5	7.5	53-70-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dibenzofuran	730.0000	UG/KG		ORSVO	3.5	5.0	132-64-9	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Dibenzofuran	720.0000	UG/KG		ORSVO	6.5	8.5	132-64-9	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dibenzofuran	690.0000	UG/KG		ORSVO	5.5	7.5	132-64-9	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dibromochloromethane	11.0000	UG/KG		ORVOA	3.5	5.0	124-48-1	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Dibromochloromethane	10.0000	UG/KG		ORVOA	5.5	7.5	124-48-1	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Dibromochloromethane	9.0000	UG/KG		ORVOA	6.5	8.5	124-48-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dichloromethane (Methylene Chloride)	11.0000	UG/KG		ORVOA	3.5	5.0	75-09-2	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Dichloromethane (Methylene Chloride)	10.0000	UG/KG		ORVOA	5.5	7.5	75-09-2	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Dichloromethane (Methylene Chloride)	9.0000	UG/KG		ORVOA	6.5	8.5	75-09-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Diethyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	84-66-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Diethyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	84-66-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Diethyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	84-66-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Dimethyl Phthalate	7[illegible].0000	UG/KG		ORSVO	3.5	5.0	131-11-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Dimethyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	131-11-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Dimethyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	131-11-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Di-n-butyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	84-74-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Di-n-butyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	84-74-2	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Di-n-butyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	84-74-2	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Di-n-octyl Phthalate	730.0000	UG/KG		ORSVO	3.5	5.0	117-84-0	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Di-n-octyl Phthalate	720.0000	UG/KG		ORSVO	6.5	8.5	117-84-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Di-n-octyl Phthalate	690.0000	UG/KG		ORSVO	5.5	7.5	117-84-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Ethylbenzene	11.0000	UG/KG		ORVOA	3.5	5.0	100-41-4	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Ethylbenzene	10.0000	UG/KG		ORVOA	5.5	7.5	100-41-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Ethylbenzene	9.0000	UG/KG		ORVOA	6.5	8.5	100-41-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Fluoranthene	730.0000	UG/KG		ORSVO	3.5	5.0	206-44-0	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Fluoranthene	720.0000	UG/KG		ORSVO	6.5	8.5	206-44-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Fluoranthene	690.0000	UG/KG		ORSVO	5.5	7.5	206-44-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Fluorene	730.0000	UG/KG		ORSVO	3.5	5.0	86-73-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Fluorene	720.0000	UG/KG		ORSVO	6.5	8.5	86-73-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Fluorene	690.0000	UG/KG		ORSVO	5.5	7.5	86-73-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachlorobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	118-74-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachlorobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	118-74-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachlorobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	118-74-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachlorobutadiene	730.0000	UG/KG		ORSVO	3.5	5.0	87-68-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachlorobutadiene	720.0000	UG/KG		ORSVO	6.5	8.5	87-68-3	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachlorobutadiene	690.0000	UG/KG		ORSVO	5.5	7.5	87-68-3	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachlorocyclopentadiene	730.0000	UG/KG		ORSVO	3.5	5.0	77-47-4	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachlorocyclopentadiene	720.0000	UG/KG		ORSVO	6.5	8.5	77-47-4	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachlorocyclopentadiene	690.0000	UG/KG		ORSVO	5.5	7.5	77-47-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Hexachloroethane	730.0000	UG/KG		ORSVO	3.5	5.0	67-72-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Hexachloroethane	720.0000	UG/KG		ORSVO	6.5	8.5	67-72-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Hexachloroethane	690.0000	UG/KG		ORSVO	5.5	7.5	67-72-1	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Indeno(1,2,3-cd)pyrene	730.0000	UG/KG		ORSVO	3.5	5.0	193-39-5	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Indeno(1,2,3-cd)pyrene	720.0000	UG/KG		ORSVO	6.5	8.5	193-39-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Indeno(1,2,3-cd)pyrene	690.0000	UG/KG		ORSVO	5.5	7.5	193-39-5	U	U	MND16	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Iron	26031.0000	MG/KG		INORG	0.5	4.0	7439-89-6			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Iron	25709.0000	MG/KG		INORG	4.0	8.0	7439-89-6			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Iron	25063.0000	MG/KG		INORG	8.0	12.0	7439-89-6			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Iron	21658.0000	MG/KG		INORG	0.0	0.5	7439-89-6			MND17	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Iron	20400.0000	MG/KG		INORG	6.5	8.5	7439-89-6			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Iron	17900.0000	MG/KG		INORG	3.5	5.0	7439-89-6			MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Iron	12100.0000	MG/KG		INORG	5.5	7.5	7439-89-6		J	MND16	Soil	Split spoon	

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
B-7	4007-0005	Borehole	19930823	Isophorone	730.0000	UG/KG		ORSVO	3.5	5.0	78-59-1	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Isophorone	720.0000	UG/KG		ORSVO	6.5	8.5	78-59-1	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Isophorone	690.0000	UG/KG		ORSVO	5.5	7.5	78-59-1	U	U	MND16	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Lead	14.0110	MG/KG	100.0000	INORG	0.0	0.5	7439-92-1			MND17	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Lead	9.8000	MG/KG		INORG	5.5	7.5	7439-92-1			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Lead	8.7000	MG/KG		INORG	3.5	5.0	7439-92-1		J	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Lead	6.4000	MG/KG		INORG	6.5	8.5	7439-92-1		J	MND16	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Lead	-6.9593	MG/KG	100.0000	INORG	0.5	4.0	7439-92-1			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Lead	-7.0363	MG/KG	100.0000	INORG	4.0	8.0	7439-92-1			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Lead	-12.4580	MG/KG	100.0000	INORG	8.0	12.0	7439-92-1			MND17	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Magnesium	11200.0000	MG/KG		INORG	5.5	7.5	7439-95-4		J	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Magnesium	9530.0000	MG/KG		INORG	6.5	8.5	7439-95-4			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Magnesium	7150.0000	MG/KG		INORG	3.5	5.0	7439-95-4			MND16	Soil	Unknown	
MND17-0557	0557-5001	Borehole	19950822	Manganese	954.2800	MG/KG		INORG	0.0	0.5	7439-96-5			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Manganese	689.2600	MG/KG		INORG	4.0	8.0	7439-96-5			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Manganese	620.6900	MG/KG		INORG	8.0	12.0	7439-96-5			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Manganese	601.2800	MG/KG		INORG	0.5	4.0	7439-96-5			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Manganese	574.0000	MG/KG		INORG	3.5	5.0	7439-96-5			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Manganese	441.0000	MG/KG		INORG	6.5	8.5	7439-96-5			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Manganese	420.0000	MG/KG		INORG	5.5	7.5	7439-96-5			MND16	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Mercury	1.2779	MG/KG	4.0000	INORG	0.0	0.5	7439-97-6			MND17	Soil	Split spoon	2
B-7	4007-0005	Borehole	19930823	Mercury	0.0100	MG/KG		INORG	3.5	5.0	7439-97-6	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Mercury	0.0100	MG/KG		INORG	6.5	8.5	7439-97-6	B		MND16	Soil	Split spoon	2
A-9	1009-0006	Borehole	19930817	Mercury	0.0100	MG/KG		INORG	5.5	7.5	7439-97-6	B		MND16	Soil	Split spoon	2
MND17-0557	0557-5008	Borehole	19950823	Mercury	-0.8913	MG/KG	4.0000	INORG	4.0	8.0	7439-97-6			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Mercury	-4.7923	MG/KG	4.0000	INORG	8.0	12.0	7439-97-6			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Mercury	-45.3660	MG/KG	4.0000	INORG	0.5	4.0	7439-97-6			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Molybdenum	1.0957	MG/KG		INORG	0.0	0.5	7439-98-7			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Molybdenum	-2.4811	MG/KG		INORG	0.5	4.0	7439-98-7			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Molybdenum	-4.2078	MG/KG		INORG	8.0	12.0	7439-98-7			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Molybdenum	-6.7731	MG/KG		INORG	4.0	8.0	7439-98-7			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Naphthalene	730.0000	UG/KG		ORSVO	3.5	5.0	91-20-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Naphthalene	720.0000	UG/KG		ORSVO	6.5	8.5	91-20-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Naphthalene	690.0000	UG/KG		ORSVO	5.5	7.5	91-20-3	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Neptunium-237	0.0840	PCI/G	0.0020	RAD	5.5	7.5	13994-20-2			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Neptunium-237	0.0100	PCI/G	0.0400	RAD	6.5	8.5	13994-20-2			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Neptunium-237	-0.2400	PCI/G	0.1800	RAD	3.5	5.0	13994-20-2			MND16	Soil	Unknown	
MND17-0557	0557-5001	Borehole	19950822	Nickel	22.1970	MG/KG		INORG	0.0	0.5	7440-02-0			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Nickel	-47.2110	MG/KG		INORG	0.5	4.0	7440-02-0			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Nickel	-154.2800	MG/KG		INORG	8.0	12.0	7440-02-0			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Nickel	-177.1600	MG/KG		INORG	4.0	8.0	7440-02-0			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Nitrobenzene	730.0000	UG/KG		ORSVO	3.5	5.0	98-95-3	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Nitrobenzene	720.0000	UG/KG		ORSVO	6.5	8.5	98-95-3	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Nitrobenzene	690.0000	UG/KG		ORSVO	5.5	7.5	98-95-3	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	N-Nitroso-di-n-propylamine	730.0000	UG/KG		ORSVO	3.5	5.0	621-64-7	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	N-Nitroso-di-n-propylamine	720.0000	UG/KG		ORSVO	6.5	8.5	621-64-7	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	N-Nitroso-di-n-propylamine	690.0000	UG/KG		ORSVO	5.5	7.5	621-64-7	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	N-Nitrosodiphenylamine	730.0000	UG/KG		ORSVO	3.5	5.0	86-30-6	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	N-Nitrosodiphenylamine	720.0000	UG/KG		ORSVO	6.5	8.5	86-30-6	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	N-Nitrosodiphenylamine	690.0000	UG/KG		ORSVO	5.5	7.5	86-30-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Pentachlorophenol	3700.0000	UG/KG		ORSVO	6.5	8.5	87-86-5	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Pentachlorophenol	3700.0000	UG/KG		ORSVO	3.5	5.0	87-86-5	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Pentachlorophenol	3600.0000	UG/KG		ORSVO	5.5	7.5	87-86-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	pH	7.4000	STD UNIT		OTHER	5.5	7.5	1006			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	pH	7.2000	STD UNIT		OTHER	6.5	8.5	1006			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	pH	6.8000	STD UNIT		OTHER	3.5	5.0	1006			MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Phenanthrene	730.0000	UG/KG		ORSVO	3.5	5.0	85-01-8	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Phenanthrene	720.0000	UG/KG		ORSVO	6.5	8.5	85-01-8	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Phenanthrene	690.0000	UG/KG		ORSVO	5.5	7.5	85-01-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Phenol	730.0000	UG/KG		ORSVO	3.5	5.0	108-95-2	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Phenol	720.0000	UG/KG		ORSVO	6.5	8.5	108-95-2	U	UJ	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Phenol	690.0000	UG/KG		ORSVO	5.5	7.5	108-95-2	U	UJ	MND16	Soil	Split spoon	
SCR191	8802151	Borehole	19880215	Plutonium-238	2902.000000	PCI/G		RAD	0.000000	0.000000	13981-16-3			SCRDATA	Soil	Unknown	123
SCR191	8802154	Borehole	19880215	Plutonium-238	1279.000000	PCI/G		RAD	0.000000	0.000000	13981-16-3			SCRDATA	Soil	Unknown	123
SCR191	8802152	Borehole	19880215	Plutonium-238	1118.000000	PCI/G		RAD	0.000000	0.000000	13981-16-3			SCRDATA	Soil	Unknown	123
SCR159	90072557	Borehole	19900725	Plutonium-238	225.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	123
SCR191	8802155	Borehole	19880215	Plutonium-238	195.000000	PCI/G		RAD	0.000000	0.000000	13981-16-3			SCRDATA	Soil	Unknown	123
MND17-0557	0557-5008	Borehole	19950823	Plutonium-238	75.1300	PCI/G		RAD	4.0	8.0	13981-16-3	U		MND17	Soil	Split spoon	
SCR155	8802253	Borehole	19880224	Plutonium-238	74.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	123
MND17-0557	0557-5004	Borehole	19950823	Plutonium-238	69.4100	PCI/G		RAD	0.5	4.0	13981-16-3	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Plutonium-238	57.5100	PCI/G		RAD	8.0	12.0	13981-16-3	U		MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Plutonium-238	39.5300	PCI/G		RAD	0.0	0.5	13981-16-3	U		MND17	Soil	Split spoon	
SCR191	8802153	Borehole	19880215	Plutonium-238	39.000000	PCI/G		RAD	0.000000	0.000000	13981-16-3			SCRDATA	Soil	Unknown	12

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
SCR155	88022511	Borehole	19880224	Plutonium-238	37.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR155	88022525	Borehole	19880224	Plutonium-238	35.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
A-9	1009-0006	Borehole	19930817	Plutonium-238	32.0000	PCI/G	0.0600	RAD	5.5	7.5	13981-16-3			MND16	Soil	Split spoon	12
SCR155	88022517	Borehole	19880224	Plutonium-238	31.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072561	Borehole	19900725	Plutonium-238	31.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072560	Borehole	19900725	Plutonium-238	30.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072555	Borehole	19900725	Plutonium-238	29.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR155	88022523	Borehole	19880224	Plutonium-238	28.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR155	8802251	Borehole	19880224	Plutonium-238	27.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072554	Borehole	19900725	Plutonium-238	27.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR155	8802256	Borehole	19880224	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR155	8802255	Borehole	19880224	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR159	90072559	Borehole	19900725	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR161	9312024-Q	Borehole	19931202	Plutonium-238	26.0000	PCI/G		RAD	0.0	0.0	13981-16-3			SCRDATA	Soil	Unknown	12
SCR155	8802258	Borehole	19880224	Plutonium-238	24.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022514	Borehole	19880224	Plutonium-238	24.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	8802254	Borehole	19880224	Plutonium-238	24.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072550	Borehole	19900725	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072540	Borehole	19900725	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022513	Borehole	19880224	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072562	Borehole	19900725	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	8802257	Borehole	19880224	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022521	Borehole	19880224	Plutonium-238	22.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR161	9312022-Q	Borehole	19931202	Plutonium-238	21.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	8802252	Borehole	19880224	Plutonium-238	21.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022520	Borehole	19880224	Plutonium-238	21.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072568	Borehole	19900725	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072564	Borehole	19900725	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072542	Borehole	19900725	Plutonium-238	20.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022526	Borehole	19880224	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072567	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072556	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072552	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072558	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072548	Borehole	19900725	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022510	Borehole	19880224	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072572	Borehole	19900725	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072569	Borehole	19900725	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072563	Borehole	19900725	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072546	Borehole	19900725	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022518	Borehole	19880224	Plutonium-238	15.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR161	9312025-M2	Borehole	19931202	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072551	Borehole	19900725	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072544	Borehole	19900725	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072541	Borehole	19900725	Plutonium-238	14.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072574	Borehole	19900725	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072568	Borehole	19900725	Plutonium-238	13.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR161	9312023-Q1	Borehole	19931202	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072549	Borehole	19900725	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072539	Borehole	19900725	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	8802259	Borehole	19880224	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022512	Borehole	19880224	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072553	Borehole	19900725	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022519	Borehole	19880224	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072571	Borehole	19900725	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072570	Borehole	19900725	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022518	Borehole	19880224	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022515	Borehole	19880224	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072545	Borehole	19900725	Plutonium-238	9.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022524	Borehole	19880224	Plutonium-238	9.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072575	Borehole	19900725	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072547	Borehole	19900725	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072565	Borehole	19900725	Plutonium-238	6.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR155	88022522	Borehole	19880224	Plutonium-238	5.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072573	Borehole	19900725	Plutonium-238	3.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
SCR159	90072543	Borehole	19900725	Plutonium-238	3.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Plutonium-238	0.6900	PCI/G	0.1300	RAD	6.5	8.5	13981-16-3	*		MND16	Soil	Split spoon	2
B-7	4007-1007	Borehole	19930823	Plutonium-238	0.6900	PCI/G	0.1400	RAD	3.5	5.0	13981-16-3			MND16	Soil	Unknown	2
B-7	4007-0005	Borehole	19930823	Plutonium-238	0.6800	PCI/G	0.1600	RAD	3.5	5.0	13981-16-3	*		MND16	Soil	Unknown	2
SCR161	9312021-Q	Borehole	19931202	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	13981-16-3	U		SCRDATA	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Plutonium-239/240	1.5000	PCI/G	0.0500	RAD	5.5	7.5	PU-239/240			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Plutonium-239/240	0.0990	PCI/G	0.1200	RAD	3.5	5.0	PU-239/240			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Plutonium-239/240	0.0320	PCI/G	0.1000	RAD	6.5	8.5	PU-239/240			MND16	Soil	Split spoon	

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
B-7	4007-1007	Borehole	19930823	Plutonium-239/240	0.0270	PCI/G	0.1000	RAD	3.5	5.0	PU-239/240			MND16	Soil	Unknown	
B-7	4007-1007	Borehole	19930823	Plutonium-242	0.2400	PCI/G	0.3800	RAD	3.5	5.0	13982-10-0			MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Plutonium-242	0.1800	PCI/G	0.0800	RAD	5.5	7.5	13982-10-0			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Plutonium-242	0.0140	PCI/G	0.1600	RAD	6.5	8.5	13982-10-0			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Plutonium-242	-0.0770	PCI/G	0.7100	RAD	3.5	5.0	13982-10-0			MND16	Soil	Unknown	
MND17-0557	0557-5004	Borehole	19950823	Potassium	27273.0000	MG/KG		INORG	0.5	4.0	7440-09-7			MND17	Soil	Split spoon	2
MND17-0557	0557-5008	Borehole	19950823	Potassium	24799.0000	MG/KG		INORG	4.0	8.0	7440-09-7			MND17	Soil	Split spoon	2
MND17-0557	0557-5012	Borehole	19950823	Potassium	24014.0000	MG/KG		INORG	8.0	12.0	7440-09-7			MND17	Soil	Split spoon	2
MND17-0557	0557-5001	Borehole	19950822	Potassium	21550.0000	MG/KG		INORG	0.0	0.5	7440-09-7			MND17	Soil	Split spoon	2
A-8	1008-0007	Borehole	19930817	Potassium	3220.0000	MG/KG		INORG	6.5	8.5	7440-09-7			MND16	Soil	Split spoon	2
B-7	4007-0005	Borehole	19930823	Potassium	2960.0000	MG/KG		INORG	3.5	5.0	7440-09-7		J	MND16	Soil	Unknown	2
A-9	1009-0006	Borehole	19930817	Potassium	1560.0000	MG/KG		INORG	5.5	7.5	7440-09-7	B		MND16	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Protactinium-231	1.7100	PCI/G		RAD	4.0	8.0	14331-85-2	U		MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Protactinium-231	1.4900	PCI/G		RAD	0.0	0.5	14331-85-2	U		MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Protactinium-231	1.3600	PCI/G		RAD	0.5	4.0	14331-85-2	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Protactinium-231	1.2700	PCI/G		RAD	8.0	12.0	14331-85-2	U		MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Pyrene	730.0000	UG/KG		ORSVO	3.5	5.0	129-00-0	U	U	MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Pyrene	720.0000	UG/KG		ORSVO	6.5	8.5	129-00-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Pyrene	690.0000	UG/KG		ORSVO	5.5	7.5	129-00-0	U	U	MND16	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Radium-226	1.5900	PCI/G		RAD	0.5	4.0	13982-63-3			MND17	Soil	Split spoon	1
MND17-0557	0557-5012	Borehole	19950823	Radium-226	0.8900	PCI/G		RAD	8.0	12.0	13982-63-3			MND17	Soil	Split spoon	1
MND17-0557	0557-5008	Borehole	19950823	Radium-226	0.8000	PCI/G		RAD	4.0	8.0	13982-63-3			MND17	Soil	Split spoon	1
MND17-0557	0557-5001	Borehole	19950822	Radium-226	0.7600	PCI/G		RAD	0.0	0.5	13982-63-3			MND17	Soil	Split spoon	1
MND17-0557	0557-5004	Borehole	19950823	Rubidium	114.9100	MG/KG		INORG	0.5	4.0	7440-17-7			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Rubidium	110.5200	MG/KG		INORG	4.0	8.0	7440-17-7			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Rubidium	104.7400	MG/KG		INORG	8.0	12.0	7440-17-7			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Rubidium	98.6940	MG/KG		INORG	0.0	0.5	7440-17-7			MND17	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Selenium	0.2200	MG/KG		INORG	6.5	8.5	7782-49-2	U	UJ	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Selenium	0.2200	MG/KG		INORG	3.5	5.0	7782-49-2	B	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Selenium	0.2100	MG/KG		INORG	5.5	7.5	7782-49-2	U	U	MND16	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Selenium	-19.4520	MG/KG	20.0000	INORG	0.0	0.5	7782-49-2			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Selenium	-26.5390	MG/KG	20.0000	INORG	0.5	4.0	7782-49-2			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Selenium	-27.8690	MG/KG	20.0000	INORG	8.0	12.0	7782-49-2			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Selenium	-28.8030	MG/KG	20.0000	INORG	4.0	8.0	7782-49-2			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Silver	86.6980	MG/KG	100.0000	INORG	0.5	4.0	7440-22-4			MND17	Soil	Split spoon	2
MND17-0557	0557-5012	Borehole	19950823	Silver	80.3267	MG/KG	100.0000	INORG	8.0	12.0	7440-22-4			MND17	Soil	Split spoon	2
MND17-0557	0557-5008	Borehole	19950823	Silver	54.0220	MG/KG	100.0000	INORG	4.0	8.0	7440-22-4			MND17	Soil	Split spoon	2
A-9	1009-0006	Borehole	19930817	Silver	6.3000	MG/KG		INORG	5.5	7.5	7440-22-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Silver	2.6000	MG/KG		INORG	6.5	8.5	7440-22-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Silver	2.6000	MG/KG		INORG	3.5	5.0	7440-22-4	U	U	MND16	Soil	Unknown	
MND17-0557	0557-5001	Borehole	19950822	Silver	-8.5904	MG/KG	100.0000	INORG	0.0	0.5	7440-22-4			MND17	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Sodium	202.0000	MG/KG		INORG	6.5	8.5	7440-23-5	B		MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Sodium	178.0000	MG/KG		INORG	5.5	7.5	7440-23-5	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Sodium	176.0000	MG/KG		INORG	3.5	5.0	7440-23-5	B		MND16	Soil	Unknown	
MND17-0557	0557-5008	Borehole	19950823	Strontium	175.2300	MG/KG		INORG	4.0	8.0	7440-24-6			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Strontium	157.7400	MG/KG		INORG	8.0	12.0	7440-24-6			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Strontium	152.9000	MG/KG		INORG	0.5	4.0	7440-24-6			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Strontium	129.7900	MG/KG		INORG	0.0	0.5	7440-24-6			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Strontium-90	0.7300	PCI/G	0.7200	RAD	3.5	5.0	10098-97-2	N		MND16	Soil	Unknown	2
B-7	4007-1007	Borehole	19930823	Strontium-90	0.1600	PCI/G	0.5100	RAD	3.5	5.0	10098-97-2			MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Styrene	11.0000	UG/KG		ORVOA	3.5	5.0	100-42-5	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Styrene	10.0000	UG/KG		ORVOA	5.5	7.5	100-42-5	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Styrene	9.0000	UG/KG		ORVOA	6.5	8.5	100-42-5	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Sulfide	10.0000	MG/KG		ANION	5.5	7.5	18496-25-8	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Sulfide	10.0000	MG/KG		ANION	6.5	8.5	18496-25-8	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Sulfide	10.0000	MG/KG		ANION	3.5	5.0	18496-25-8	U	U	MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Tetrachloroethene	11.0000	UG/KG		ORVOA	3.5	5.0	127-18-4	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Tetrachloroethene	10.0000	UG/KG		ORVOA	5.5	7.5	127-18-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Tetrachloroethene	9.0000	UG/KG		ORVOA	6.5	8.5	127-18-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Thallium	0.4400	MG/KG		INORG	6.5	8.5	7440-28-0	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Thallium	0.4400	MG/KG		INORG	3.5	5.0	7440-28-0	U	UJ	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Thallium	0.4200	MG/KG		INORG	5.5	7.5	7440-28-0	U	U	MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Thorium-228	0.7400	PCI/G	0.1600	RAD	5.5	7.5	14274-82-9			MND16	Soil	Split spoon	1
A-8	1008-0007	Borehole	19930817	Thorium-228	0.7300	PCI/G	0.2500	RAD	6.5	8.5	14274-82-9			MND16	Soil	Split spoon	1
MND17-0557	0557-5008	Borehole	19950823	Thorium-230	9.3000	PCI/G		RAD	4.0	8.0	14269-63-7	U		MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Thorium-230	7.9500	PCI/G		RAD	0.5	4.0	14269-63-7	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Thorium-230	5.2900	PCI/G		RAD	8.0	12.0	14269-63-7	U		MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Thorium-230	5.2300	PCI/G		RAD	0.0	0.5	14269-63-7			MND17	Soil	Split spoon	123
A-9	1009-0006	Borehole	19930817	Thorium-230	0.7700	PCI/G	0.1700	RAD	5.5	7.5	14269-63-7			MND16	Soil	Split spoon	1
A-8	1008-0007	Borehole	19930817	Thorium-230	0.6700	PCI/G	0.2700	RAD	6.5	8.5	14269-63-7			MND16	Soil	Split spoon	1
SCR191	8802151	Borehole	19880215	Thorium-232	182.200000	PCI/G		RAD	0.000000	0.000000	7440-29-1			SCRDATA	Soil	Unknown	123
SCR191	8802152	Borehole	19880215	Thorium-232	106.900000	PCI/G		RAD	0.000000	0.000000	7440-29-1			SCRDATA	Soil	Unknown	123
SCR191	8802154	Borehole	19880215	Thorium-232	59.900000	PCI/G		RAD	0.000000	0.000000	7440-29-1			SCRDATA	Soil	Unknown	123

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
SCR191	8802155	Borehole	19880215	Thorium-232	8.200000	PCI/G		RAD	0.000000	0.000000	7440-29-1			SCRDATA	Soil	Unknown	123
SCR191	8802153	Borehole	19880215	Thorium-232	2.800000	PCI/G		RAD	0.000000	0.000000	7440-29-1			SCRDATA	Soil	Unknown	123
SCR155	8802253	Borehole	19880224	Thorium-232	2.2000	PCI/G		RAD	0.0	0.0	7440-29-1			SCRDATA	Soil	Unknown	123
SCR155	88022525	Borehole	19880224	Thorium-232	1.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802255	Borehole	19880224	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022511	Borehole	19880224	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312023-Q1	Borehole	19931202	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802256	Borehole	19880224	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802254	Borehole	19880224	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312021-Q	Borehole	19931202	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312025-M2	Borehole	19931202	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312024-Q	Borehole	19931202	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022524	Borehole	19880224	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR161	9312022-Q	Borehole	19931202	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072547	Borehole	19900725	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072545	Borehole	19900725	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072542	Borehole	19900725	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802259	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802252	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022522	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022526	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022516	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802251	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022510	Borehole	19880224	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072550	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072563	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072548	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072540	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072539	Borehole	19900725	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022518	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022520	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022517	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022523	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022514	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022515	Borehole	19880224	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072566	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072568	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072564	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072546	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072544	Borehole	19900725	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802258	Borehole	19880224	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022519	Borehole	19880224	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022512	Borehole	19880224	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
MND17-0557	0557-5008	Borehole	19950823	Thorium-232	0.7200	PCI/G		RAD	4.0	8.0	7440-29-1			MND17	Soil	Split spoon	1
SCR159	90072574	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072571	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072569	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072567	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072565	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072554	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072555	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072549	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072559	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072562	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072561	Borehole	19900725	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022521	Borehole	19880224	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
MND17-0557	0557-5004	Borehole	19950823	Thorium-232	0.6900	PCI/G		RAD	0.5	4.0	7440-29-1			MND17	Soil	Split spoon	1
SCR159	90072575	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072573	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072572	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072570	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072556	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072551	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072557	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072558	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072543	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072541	Borehole	19900725	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	8802257	Borehole	19880224	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR155	88022513	Borehole	19880224	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
SCR159	90072552	Borehole	19900725	Thorium-232	0.5000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Thorium-232	0.4600	PCI/G	0.2100	RAD	6.5	8.5	7440-29-1			MND16	Soil	Split spoon	1
A-9	1009-0006	Borehole	19930817	Thorium-232	0.4300	PCI/G	0.1300	RAD	5.5	7.5	7440-29-1			MND16	Soil	Split spoon	1
SCR159	90072553	Borehole	19900725	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	

Location_name	Sample_id	Location_type	Collection_date	Value_name	Measured_value	Value_units	Detection_limit	Chem_class	Start_depth	End_depth	CAS_number	Lab_qualifier	Data_qualifier	Project_code	Media	Collection_method	Comments
SCR159	90072560	Borehole	19900725	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	7440-29-1	U		SCRDATA	Soil	Unknown	
MND17-0557	0557-5012	Borehole	19950823	Thorium-232	0.2900	PCI/G		RAD	8.0	12.0	7440-29-1	U		MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Thorium-232	0.2500	PCI/G		RAD	0.0	0.5	7440-29-1			MND17	Soil	Split spoon	1
MND17-0557	0557-5001	Borehole	19950822	Tin	-36.9000	MG/KG		INORG	0.0	0.5	7440-31-5			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Tin	-50.2330	MG/KG		INORG	0.5	4.0	7440-31-5			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Tin	-50.9870	MG/KG		INORG	8.0	12.0	7440-31-5			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Tin	-66.5650	MG/KG		INORG	4.0	8.0	7440-31-5			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Titanium	2502.4000	MG/KG		INORG	0.5	4.0	7440-32-6			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Titanium	2342.1000	MG/KG		INORG	8.0	12.0	7440-32-6			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Titanium	2263.4000	MG/KG		INORG	0.0	0.5	7440-32-6			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Titanium	2258.9000	MG/KG		INORG	4.0	8.0	7440-32-6			MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Toluene	11.0000	UG/KG		ORVOA	3.5	5.0	108-88-3	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Toluene	10.0000	UG/KG		ORVOA	5.5	7.5	108-88-3	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Toluene	9.0000	UG/KG		ORVOA	6.5	8.5	108-88-3	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Trichloroethylene (TCE)	11.0000	UG/KG		ORVOA	3.5	5.0	79-01-6	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Trichloroethylene (TCE)	10.0000	UG/KG		ORVOA	5.5	7.5	79-01-6	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Trichloroethylene (TCE)	9.0000	UG/KG		ORVOA	6.5	8.5	79-01-6	U	U	MND16	Soil	Split spoon	
C-5	5005-1014	Borehole	19930819	Tritium	0.8700	PCI/G	0.3600	RAD	13.5	14.7	10028-17-8			MND16	Soil	Unknown	
C-5	5005-0014	Borehole	19930819	Tritium	0.7200	PCI/G	0.3600	RAD	13.5	14.7	10028-17-8			MND16	Soil	Unknown	
C-3	5003-0006	Borehole	19930820	Tritium	0.1200	PCI/G	0.3600	RAD	5.5	7.5	10028-17-8			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Uranium-234	0.8700	PCI/G	0.2200	RAD	6.5	8.5	13966-29-5			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Uranium-234	0.7600	PCI/G	0.1900	RAD	5.5	7.5	13966-29-5			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Uranium-234	0.6700	PCI/G	0.2600	RAD	3.5	5.0	13966-29-5			MND16	Soil	Unknown	
B-7	4007-1007	Borehole	19930823	Uranium-234	0.5100	PCI/G	0.3800	RAD	3.5	5.0	13966-29-5			MND16	Soil	Unknown	
B-7	4007-0005	Borehole	19930823	Uranium-235	0.1300	PCI/G	0.2100	RAD	3.5	5.0	15117-96-1			MND16	Soil	Unknown	2
A-8	1008-0007	Borehole	19930817	Uranium-235	0.0450	PCI/G	0.1800	RAD	6.5	8.5	15117-96-1			MND16	Soil	Split spoon	
A-9	1009-0006	Borehole	19930817	Uranium-235	0.0450	PCI/G	0.1600	RAD	5.5	7.5	15117-96-1			MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Uranium-235	-0.0180	PCI/G	0.3100	RAD	3.5	5.0	15117-96-1			MND16	Soil	Unknown	
MND17-0557	0557-5008	Borehole	19950823	Uranium-238	7.3900	PCI/G		RAD	4.0	8.0	7440-61-1	U		MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Uranium-238	6.9600	PCI/G		RAD	0.5	4.0	7440-61-1	U		MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Uranium-238	5.3700	PCI/G		RAD	8.0	12.0	7440-61-1			MND17	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Uranium-238	4.8300	PCI/G		RAD	0.0	0.5	7440-61-1	U		MND17	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Uranium-238	1.0000	PCI/G	0.2300	RAD	3.5	5.0	7440-61-1			MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Uranium-238	0.6400	PCI/G	0.1800	RAD	5.5	7.5	7440-61-1			MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Uranium-238	0.5400	PCI/G	0.2000	RAD	6.5	8.5	7440-61-1			MND16	Soil	Split spoon	
B-7	4007-1007	Borehole	19930823	Uranium-238	0.2800	PCI/G	0.3400	RAD	3.5	5.0	7440-61-1			MND16	Soil	Unknown	
A-8	1008-0007	Borehole	19930817	Vanadium	18.6000	MG/KG		INORG	6.5	8.5	7440-62-2	B		MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Vanadium	14.7000	MG/KG		INORG	3.5	5.0	7440-62-2	B		MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Vanadium	8.6000	MG/KG		INORG	5.5	7.5	7440-62-2	B	J	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Vinyl Chloride	11.0000	UG/KG		ORVOA	3.5	5.0	75-01-4	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Vinyl Chloride	10.0000	UG/KG		ORVOA	5.5	7.5	75-01-4	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Vinyl Chloride	9.0000	UG/KG		ORVOA	6.5	8.5	75-01-4	U	U	MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Xylenes, Total	11.0000	UG/KG		ORVOA	3.5	5.0	1330-20-7	U	U	MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Xylenes, Total	10.0000	UG/KG		ORVOA	5.5	7.5	1330-20-7	U	U	MND16	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Xylenes, Total	9.0000	UG/KG		ORVOA	6.5	8.5	1330-20-7	U	U	MND16	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Zinc	142.5500	MG/KG		INORG	0.5	4.0	7440-66-6			MND17	Soil	Split spoon	2
MND17-0557	0557-5001	Borehole	19950822	Zinc	103.8500	MG/KG		INORG	0.0	0.5	7440-66-6			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Zinc	88.3460	MG/KG		INORG	4.0	8.0	7440-66-6			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Zinc	65.0660	MG/KG		INORG	8.0	12.0	7440-66-6			MND17	Soil	Split spoon	
A-8	1008-0007	Borehole	19930817	Zinc	48.3000	MG/KG		INORG	6.5	8.5	7440-66-6			MND16	Soil	Split spoon	
B-7	4007-0005	Borehole	19930823	Zinc	41.5000	MG/KG		INORG	3.5	5.0	7440-66-6			MND16	Soil	Unknown	
A-9	1009-0006	Borehole	19930817	Zinc	27.0000	MG/KG		INORG	5.5	7.5	7440-66-6		J	MND16	Soil	Split spoon	
MND17-0557	0557-5001	Borehole	19950822	Zirconium	164.1500	MG/KG		INORG	0.0	0.5	7440-67-7			MND17	Soil	Split spoon	
MND17-0557	0557-5004	Borehole	19950823	Zirconium	135.7300	MG/KG		INORG	0.5	4.0	7440-67-7			MND17	Soil	Split spoon	
MND17-0557	0557-5012	Borehole	19950823	Zirconium	129.5500	MG/KG		INORG	8.0	12.0	7440-67-7			MND17	Soil	Split spoon	
MND17-0557	0557-5008	Borehole	19950823	Zirconium	112.8400	MG/KG		INORG	4.0	8.0	7440-67-7			MND17	Soil	Split spoon	

*Comments	
1	Exceeds the 10-6 Risk-Based Guide Value
2	Exceeds the OU9 Soil Background Value
3	Exceeds screening level
5	Exceeds MCL
6	Exceeds the Guide Value based on the hazard index

Reference 3

ENVIRONMENTAL RESTORATION PROGRAM

OPERABLE UNIT 9, SITE SCOPING REPORT: VOLUME 3 - RADIOLOGICAL SITE SURVEY

MOUND PLANT
MIAMISBURG, OHIO

June 1993

DEPARTMENT OF ENERGY
ALBUQUERQUE FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

FINAL

was detected in the samples from this location (a maximum of 0.98 pCi/g of plutonium-238 and less than 2 pCi/g of thorium).

Area D was not identified in the original Site Survey Project Report (Stought et al. 1988), but it has always been included as one of the sites to be addressed by the Mound Plant D&D Program. No significant radioactive contamination was identified during the Site Survey Project, either in the original report or by this evaluation. This is consistent with the site history for this area, which indicates that any nitric acid released would have been raw material prior to processing and, therefore, not contaminated. The D&D of Area D is being conducted as part of the D&D of Building 38 and its utility systems.

The maximum depth sampled in Area D was 180 inches. Borehole data in Mound Plant drawing #FSE16472, reproduced in the Site Scoping Report: Volume II Addendum (DOE 1992f) indicate that the depth to bedrock in this area of the SM/PP Hill ranges from approximately 108 to 228 inches, but this may vary greatly due to the presence of fill dirt. The boring log for location C0146 is not available, so it cannot be determined if bedrock was reached during the sampling.

4.1.9. Building 48 Hillside

A note in the Site Survey Project Report (Table 2.1 in Stought et al. 1988) indicated that elevated levels of plutonium-238 were discovered in an area designated as Block 19. The area of concern is actually located adjacent to a process sewer manhole northwest of Building 48 on the south slope of the Main Hill (Plate 1). This area is referred to as the Building 48 hillside in this report. The Building 48 hillside is also west of Area 5, but is not currently included in the boundaries of Area 5. Internal Mound Plant memoranda reviewed for this report substantiate the note in the project report (Stought et al. 1988) that plutonium-238 concentrations are as high as 32 nCi/g (Draper 1986a). The data sheets are included in Appendix E. The levels of plutonium-238 encountered required that the construction project be abandoned, so the initial holes were simply backfilled and the contamination left in place. The contamination encountered at the Building 48 hillside is attributed to a release of 7.64 mCi of plutonium-238 in November 1967. This incident is listed in the Site Scoping Report: Volume 11: Spills and Response Actions (DOE 1992h). As the Building 48 hillside is associated with the soils adjacent to the alpha waste water sewer lines, similar problems may be anticipated along the length of the lines. These lines are scheduled to undergo D&D.

SOIL SCANNING FACILITY MCA RECORD

DISTRIBUTION:

R.R. DAILY
D.G. DRAPER
FILE

		SAMPLE TYPE
SAMPLE TYPE	:CONSTRUCTION	SM
SAMPLE CONDITION	: WET	PP
DATE (When Collected)	:4/18/86	WTS
DATE (When Screened)	:4/21/86	CONT.
SAMPLE TAKEN BY	[redacted]. [redacted] 5385	SS
		41

MCA WELL "B"

SAMPLE#	GRAMS	Pu Wt.FACTOR	GROSS Ct Th	GROSS Ct Pu	Pu-238 pCi/g	Th-232 pCi/g	LOCATION AND DEPTH
12609	300	0.167	555	491	3	0.2	BLDG 48 HILLSIDE #1

SCREEN BY:

Review By:_____ Approved By:_____

MCA WELL "B" WEEKLY CALIBRATION LOG

MCA DOE#: 87679
MCA SN#: 80545
PROBE DOE#: 97385
PROBE SN#: DR593

STANDARDS	CT./400 sec. Pu Window	CT./400 sec. Th Window	CT - BKG	Ct/pCi
BKG STANDARD	393	376		
Pu-238 STANDARD #1044 = 169.4 pCi/gr	11700		11307	66.75
Pu-238 STANDARD #1045 = 746.8 pCi/gr	4765		4372	5.85
Pu-238 STANDARD #1046 = 2216 pCi/gr	10174		9781	4.41
Th-230 STANDARD #2244 = 44.5 pCi/gr	26557		26181	588.34

PREPARED BY: [redacted] 5315 DATE 4/21/86

REVIEWED BY_____DATE_____APPROVED BY:_____DATE_____

SOIL SCANNING FACILITY MCA RECORD

DISTRIBUTION:

R.R. DAILY
D.G. DRAPER
FILE

		SAMPLE TYPE
SAMPLE TYPE	:CONSTRUCTION	SM
SAMPLE CONDITION	:WET	PP
DATE (When Collected)	:4/17/86	WTS
DATE (When Screened)	:4/18/86	CONT.
SAMPLE TAKEN BY	[redacted] 5385	SS
		41

MCA WELL "A"

SAMPLE#	GRAMS	Pu WT.FACTOR	GROSS Ct Th	GROSS Ct Pu	Pu-238 pCi/g	Th-232 pCi/g	LOCATION AND DEPTH
12605	300	0.167	2415	209788	38861	4.2	BLDG 48 HILLSIDE #1

MCA WELL "B"

SAMPLE#	GRAMS	Pu Wt.FACTOR	GROSS Ct Th	GROSS Ct Pu	Pu-238 pCi/g	Th-232 pCi/g	LOCATION AND DEPTH
12606	300	0.167	4149	67129	11602	5.4	BLDG 48 HILLSIDE #1

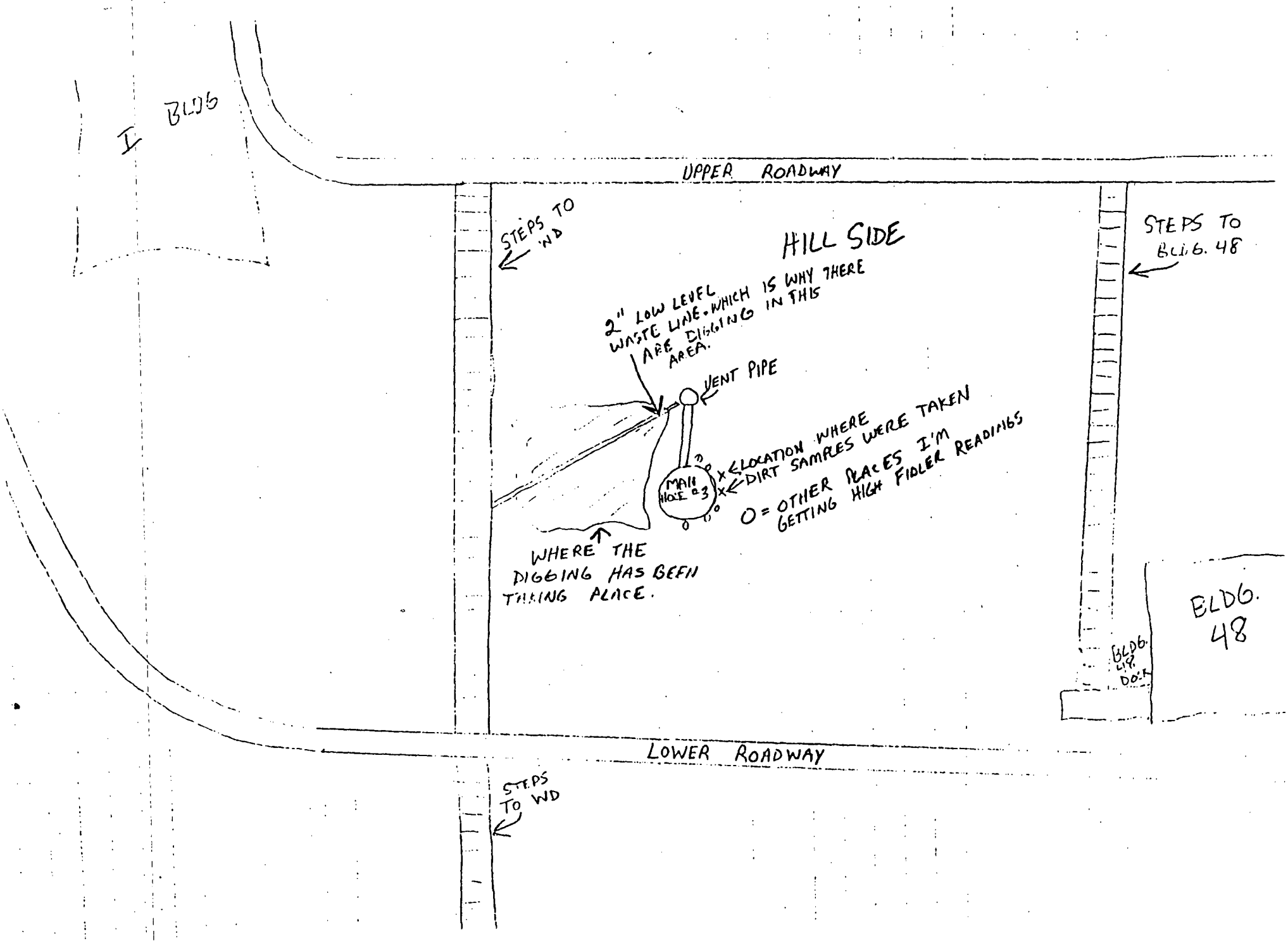
SCREEN BY: [redacted] 5315

Review By:_____ Approved By:_____

4-18-86

HPGe :

	Pu238	Am241
12605	31.7 nCi/g	✓
12606	23.0 nCi/g	✓


BLDG
UPPER ROADWAY
STEPS TO WD
HILL SIDE
STEPS TO BLDG. 48
2" LOW LEVEL WASTE LINE. WHICH IS WHY THERE ARE DIGGING IN THIS AREA.
VENT PIPE
MAIN HOLE #3
X ← LOCATION WHERE DIRT SAMPLES WERE TAKEN
O = OTHER PLACES I'M GETTING HIGH FIDLER READINGS
WHERE THE DIGGING HAS BEEN TAKING PLACE.
BLDG. 48
BLDG. LAB. DOCK
LOWER ROADWAY
STEPS TO WD

Reference 4

ENVIRONMENTAL RESTORATION PROGRAM

OPERABLE UNIT 9,
SITE SCOPING REPORT
VOLUME 11 - SPILLS AND RESPONSE ACTIONS

MOUND PLANT
MIAMISBURG, OHIO

March 1992

DEPARTMENT OF ENERGY
ALBUQUERQUE FIELD OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
TECHNICAL SUPPORT OFFICE
LOS ALAMOS NATIONAL LABORATORY

FINAL
(Revision 0)

Table II.1. Summary of Spills and Environmental Releases from Records of the Safety Office

Date	Location	Material	Amount	Incident	Response
02/12/63	South end SW Bldg.	H-3	"Low-level"	Fire of paper covering metal during cutting and drumming for disposal (63-13).	MRC Incident Investigation Report No. 63-13 (2/14/63).
03/04/63	Historic landfill	Misc. chemicals	Unknown	Explosion of incompatible chemicals in deteriorated containers; no radioactivity.	MRC Incident Investigation Report No. 63-19 (2/19/63).
10/27/64	SM Bldg.	Pu-238	Unknown	Methanol vapors inside fumehood exploded; possible air release.	MRC Incident Investigation Final Report 11/23/64 - record incomplete. Use of flammable solvents within gloveboxes prohibited by AEC.
02/26/65	SM Bldg.	Pu-238	Unknown	Ruptured can of trash in Room 26; possible air release; possible water release.	MRC report 3/2/65 - record incomplete.
03/06/65	SM Bldg.	Pu-238	Unknown	Acid release in Room 59; possible air release.	MRC report 3/8/65 - record incomplete.
08/27/65	SM Bldg.	Pu-238	Unknown	Fire in Room 38; possible air release.	MRC report 9/7/65 - record incomplete.
05/20/66	SM Bldg.	H-3	Unknown	Unidentified release of tritium to SW stack.	MRC Incident Investigation Report No. 66-26 (5/27/66). Recommendations to re-evaluate mechanical and engineering conditions of ERS.
09/08/67	WTS west of SM Bldg.	Pu-238	Unknown	Flanges in line found unbolted; low-risk line contaminated, including soil to 15 ft downslope; high-risk line not in use yet.	MRC Incident Investigation Report No. 67-21 (10/10/67). Soil cleanup proposed (no cleanup guideline given) with periodic system inspections.
11/09/67	Wasteline south of SW/R Bldgs.	"Low-level radioactivity"	1,500-2,000 gals	During wasteline repair wastewater spilled across road to storm drains and then to drainage ditch; about 7.65 millicuries released.	MRC Incident Description 11/17/67. 10 on-plant and 7 off-plant water samples collected 5 to 20 minutes after spill; highest air reading 1200 dis/min/mL; highest water reading 216.0 dis/min/mL at culvert exit to drainage ditch.
03/30/68	SM Bldg.	Pu-238	Unknown	Reversal of air flow in SM stack; possible air release.	MRC Incident Investigation Report No. 68-8 (4/10/68).

Reference 5

MONSANTO RESEARCH CORPORATION — *Inter-Office Correspondence*

From LOCATION : NUCLEAR OPERATIONS, Mound Laboratory

DATE : November 17, 1967

SUBJECT : Incident: Involving Accidental Release of Liquid Radioactive Waste at Excavation

REFERENCE : at Tie-in Area on Hillside.

TO : J. L. Ricks

cc: P. C. Adams
J. A. Grasso
G. R. Grove
H. E. Meyer
F. D. Lonadier
D. L. Scott
W. E. Seuberling
Committee
File

Investigating Committee:

T. B. Gough - Nuclear Operations
T. K. Kozuszek - Safety Section
A. R. Mann - Engineering
R. U. McMannon - Health Physics

SUMMARY:

At approximately 11:00 A. M., November 9, 1967 during radioactive waste line tie-in activities on hillside south of R & SW Buildings, an estimated 1,500 to 2,000 gallons of low level radioactive waste water accidently released into the excavation. The waste spilled over onto the middle road and entered the storm drains near the W-Tunnel entrance of T-Building, contaminating about 220 feet of roadway. The waste contained about 7.65 millicuries. No personnel were injured or exposed and no property damage involved. Release of liquid waste to the river was well below M. P. C., as determined by samples taken both on site and off site.

PERSONNEL INTERVIEWED:

[redacted], 47 years old, Mason, no physical defects, 2 years at Mound Laboratory.

[redacted], 53 years old, Maintenance Foreman, no physical defects, 11 years at Mound Laboratory, 7 years as a foreman.

[redacted], 46 years old, Maintenance Supervisor, no physical defects, 20 years at Mound Laboratory, 19 years on present job.

[redacted], 24 years old, Engineering, Facility Engineer, no physical defects, 1 year at Mound Laboratory.

[redacted], 28 years old, Health Physics Surveyor, no physical defects, 4 years at Mound Laboratory, 2-1/2 years as Health Physics Surveyor.

DETAILS:

At approximately 11:00 A. M. on November 9, 1967, [redacted] a mason, was working on a tie-in of liquid radioactive waste lines on the hillside south of R. and S. W. Buildings, to divert "R" building waste-water to the new W. D. Building, referred to as W. D. A. Another tie-in was being made at this location to send laundry waste-water to the old W. D. Building. Water from the laundry and R-Building flowed through a common line to the old W. D. Building at the start of this job.

Since it was not possible to stop the flow of water through the common line completely during this work, a bypass was used consisting of a gasoline powered pump and fire hoses running from a manhole on the upper road to a manhole at the excavation site, approximately 100 feet south of the manhole on the upper road. Flow of water through the involved section of pipe was stopped by means of a rubber expansion plug inserted in the pipe at the upper manhole. Operation of this system had been started on Tuesday, November 7, 1967.

Prior to the incident [redacted], W. D. Supervisor, had found the gasoline pump not operating, and the upper manhole nearly filled with water on several occasions. As a result he had requested closer attention to the pump and installation of a standby pump in case of failure of the original one. A five-gallon fuel tank was connected to the pump to provide longer continuous operation.

On the morning of the incident, [redacted] again observed that the pump engine had stopped and the manhole was filling, he then called the laundry and requested that they stop dumping water and proceeded to clean the screen on the pump intake to start it operating before the manhole overflowed to the roadway. A mechanic started the pump. The laundry had been informed that they could dump their water just before the incident occurred.

[redacted] was preparing to go to lunch when he observed that the pump engine was running but the pump was not operating and the upper manhole was filled to within a few feet of the top. At the time of the incident [redacted] had installed a new capped section of pipe at the lower end of the line. He then noticed a large flow of water through the excavation on the hillside. Seeing [redacted] near the west tower of T-Building he immediately called him over to the manhole. [redacted] observed the flow of water and called [redacted] to request a shut-off of waste water from the laundry and T-Building.

About the same time [redacted], W. D. Area Health Physics Surveyor, arrived and was requested by [redacted] to collect downstream water samples to determine the radioactive concentration of the water as it flowed through the storm drains. While this was being done other Health Physics personnel were proceeding to collect samples outside the outer perimeter fence and from the Miami River, and to rope off the roadway and other contaminated areas.

When the water in the excavation had receded enough for him to enter it, [redacted] found the rubber plug wedged inside the section of pipe which had been installed on the end of the line. This section had been pushed off by the water. It was necessary for [redacted] to use a wrench to loosen the plug before it could be removed. He then took the plug up to the upper manhole and again inserted it into the line. Until the plug was installed, water had continued to flow through the open line at a reduced rate due to the cooperation of R-Building and laundry personnel in shutting down waste-water flow.

The following are the results of water samples taken on-site and off-site. Locations are indicated on the attached site plan drawing for on site samples.

On-Site Samples	Disintegrations/minute/ml	
1.	226	The onsite samples were taken from approximately 5 minutes to 20 minutes after the spill.
2.	1200	
3.	460	
4.	466	
5.	348	
6.	200	
7.	282	
8.	466	
9.	0	
10.	0	

Off-Site Samples	Disintegrations/minute/ml
Locations	
1. Exit of concrete culvert	216.0
2. Above small falls, 75 Ft. from culvert.	23.0
3. 50 Ft. downstream from #2	0.04
4. Old canal.	7.0
5. Just before river.	0.14
6. Outflow of sewer.	0.0
7. Below dam.	0.0

Samples taken at the river do not exceed the permissible level of 11 dis/min/ml for continuous operation. This water would also be further diluted by approximately 850,000 gallons of raw water in 24 hours, not including surface water and spring water.

CAUSES:

Some of the contributing factors leading up to the incident were: Originally the tie-in was scheduled for November 4, 1967 - W. D. supervisor and W. D. Health Physics supervisor were not notified, showing a lack of communication between Engineering and Health Physics and W. D. The November 4 date was set back to November 11, on Tuesday November 7, 1967 without notification to W. D. or Health Physics personnel showing further lack of coordination.

Another factor was lack of a standby man to keep the pump running on the by-pass system 100 percent of the time during day shift operations when the water flow is heavy.

There is also the possibility that the wrong type of plug may have been used. The possibility exists that the cleaning operation of the strainer on the dip-line of the pump may have cocked the plug in the tile by hooking the strainer on the clamp rod of the plug during the removal of line to clean the strainer. When the manhole again filled due to pump failure the excessive pressure along with the fact that the plug may have been cocked, reducing the friction edge and allowed the plug to work on through the approximate 100 feet of tile to the excavation. The reason for the pump failure was the foreign matter collecting on the strainer. This foreign matter gets to the waste line in large pieces due to the lack of screens or strainers at the source of the waste liquid, e.g., janitor's sinks, floor drains, etc., (foreign matter found in W. D. lines - rubber gloves, mop strings, rags, etc.)

RECOMMENDATIONS:

The following recommendations are the results of discussions with the Investigating Committee, Supervisors and Personnel involved in the incident.

1. Investigate the possibility that the plug used to cut off water flow in line in manholes could be designed so that it does not depend entirely upon expansion to hold it in place.

Example

Possibly a plywood template cut to fit in conjunction with the

expansion plug, with the template and plug fastened together or some other arrangement.

2. Standby man 100 percent of the time during operations of this type.

3. The use of (2) two pumps in case one pump fails the other can be put in service immediately, thereby keeping the water level in the manhole to a minimum.

4. Inspect all sources of radioactive waste to Hot Waste Lines and see that strainers are installed and used.

5. Install vacuum breaker on discharge side of pumps used in operations of this type to prevent siphonage from suction line of pump thereby reducing the time it takes for the pump to be effective on intermittent flow such as is present in Hot Waste Lines.

6. Either a written procedure or form should be used to notify all personnel involved when an operation of this type is to be performed to avoid breakdown of communication.

T. B. Gough

T. K. Kozuszek

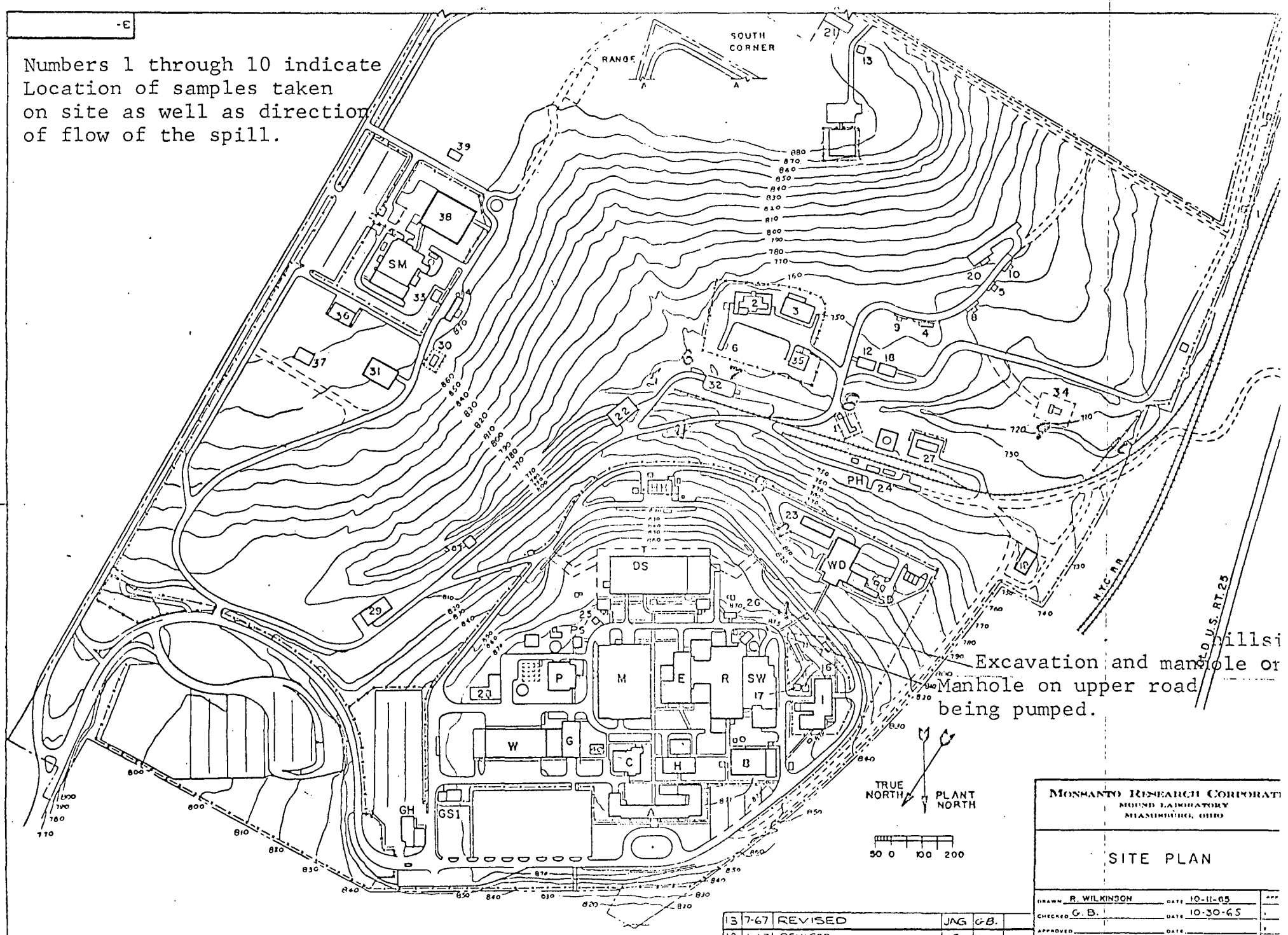
A. R. Mann

R. U. McMannon

TBG/me

-E

Numbers 1 through 10 indicate Location of samples taken on site as well as direction of flow of the spill.



MONSANTO RESEARCH CORPORATION
MOUND LABORATORY
MIAMISBURG, OHIO

SITE PLAN

13	7-67	REVISED	JNG	G.B.	
12	1-67	REVISED	HF	G.B.	
11	9-66	REVISED	GW		
10	10-65	REDRAWN	RW	G.B.	
NO	DATE	REVISION	BY	CHKD	APPRVD

CLASSIFICATION

DRAWN R. WILKINSON DATE 10-11-65
CHECKED G.B. DATE 10-30-65
APPROVED DATE
JOB NO 769
SCALE 1" = 200'

DWG. No. 3-