OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

FINAL
REMOVAL ACTION REPORT
AREE 63BE
FORT DEVENS, MASSACHUSETTS

Prepared for:

U.S. Army Corps of Engineers
New England Division
Waltham, Massachusetts
Contract Number DACW45-89-D-0506

Prepared by:

OHM Remediation Services Corp.
Hopkinton, Massachusetts
Project Number 16208

February 15, 1996

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LIST OF ACRONYMS AND ABBREVIATIONS

ABB	ABB Environmental Services, Inc.
ACM	Asbestos Containing Material
AREE	Area Requiring Environmental Evaluation
BNA	Base Neutral/Acid Extractable
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EMO	Fort Devens Environmental Management Office
NPL	National Priorities List
MADEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
MEP	Master Environmental Plan
NED	US Army Corps of Engineers New England Division
PAH	Polycyclic Aromatic Hydrocarbons
PID	Photoionization Detector
RECON	RECON Environmental Corporation
SA	Study Area
SARA	Superfund Amendments and Reauthorization Act
SI	Site Investigation
SVOCs	Semivolatile Organic Compounds
TPHC	Total Petroleum Hydrocarbons
TRC	TRC Environmental Corporation
USAEC	U.S. Army Environmental Center
USACE	United States Army Corps of Engineers
UST	Underground Storage Tank
VOC	Volatile Organic Compounds

EXECUTIVE SUMMARY

Fort Devens was placed on the National Priority List (NPL) on December 21, 1989, under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, Superfund Act) as amended by the Superfund Amendments and Reauthorization Act (SARA). Subsequently, under Public Law 101-510, the Defense Base Realignment and Closure Act of 1990, Fort Devens was selected for cessation of operations and closure. In accordance with these acts, investigations have been conducted at numerous locations at the base, termed Areas Requiring Environmental Evaluation (AREEs), to determine if residual contamination is present. AREE 63 sites, the collective designation for sites from which USTs were previously removed, were identified as potential areas of contamination. AREE 63BE is the specific designation given to the area affected by the 1,000 gallon underground storage tank (UST) associated with Building 2290. Information gathered through site studies indicated petroleum contamination in the subsurface soils in the area. This report documents the historical information and investigation results leading to the recommendation to remove soil, and the removal actions taken at AREE 63BE.

AREE 63BE is located in the central portion of the Main Post near Queenstown, Givry, and Quebec Streets. The UST associated with Building 2290 was removed in January 1992 along with 25 cubic yards of contaminated soil. Additional contaminated soil was removed in August 1992, after which time, the excavation was lined and backfilled. Elevated TPH concentrations remained in the excavation subsequent to the removal action conducted in 1992, which was confirmed during the Supplemental Site Evaluation conducted in 1994.

The New England Division (NED) of the United States Army Corps (USACE) contracted OHM Remediation Services Corporation (OHM) to demolish Building 2290 and remove the remaining contaminated soil. OHM demolished Building 2290 prior to removing 4000 tons of contaminated soil from AREE 63BE. When it became evident that contamination extended under the streets adjacent to the Building 2290 property, the Army directed OHM to stop further excavation and to conduct a soil boring investigation to determine the lateral extent of contamination. Based on the results of the soil boring investigation, the Army decided to backfill the excavation. TPH concentrations remaining at the completion of excavation activities were less than 2500 mg/kg. Confirmation soil samples were collected from the excavation bottom and sidewalls in order to document existing conditions prior to backfilling. The excavated soil has been placed into the temporary soil storage area at Building 202, until it can be utilized as cover material in the Consolidation Landfill proposed for construction at Fort Devens. Further investigation will be conducted at the site to better define the lateral extent of soil contamination, and to assess potential impacts to groundwater.

SECTION 1.0
INTRODUCTION

Fort Devens was placed on the National Priority List (NPL) on December 21, 1989, under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA; Superfund) as amended by the Superfund Amendments and Reauthorization Act (SARA). Subsequently, under Public Law 101-510, the Defense Base Realignment and Closure Act of 1990, Fort Devens was selected for cessation of operations and closure. This report has been prepared as part of the U.S. Department of Defense Base Realignment and Closure program to assess the nature and extent of contamination associated with site operations at Fort Devens. This report contains a summary of activities conducted under CERCLA at AREE 63BE.

In conjunction with the Army's Installation Restoration Program, Fort Devens and the U.S. Army Environmental Center (USAEC; formerly the U.S. Army Toxic and Hazardous Materials Agency) developed a Master Environmental Plan (MEP) in 1988. The MEP consisted of assessments of the environmental status of Study Areas (SAs), specified necessary investigations, and provided recommendations for response actions with the objective of identifying priorities for environmental restoration at Fort Devens. Areas Requiring Environmental Evaluation (AREEs) were identified in the MEP and appropriate investigations were undertaken to assess the need for removal actions. The New England Division of the U.S. Army Corps of Engineers (NED) was tasked with removal efforts at the base. This report documents the historical findings leading to the response action recommendation and describes the measures taken at AREE 63BE. This is not a closure report because cleanup goals have not yet been achieved at this site.

1.1 Site History and Background

AREE 63BE is located in the central portion of the Main Post near Queenstown, Givry and Quebec Streets, and consists of soils affected by leakage from a 1,000 gallon underground storage tank (UST; UST 28) associated with Building 2290. Refer to Figure 1-1 for the site location and Figure 1-2 for the site plan. UST 28 was located on the northwest side of the building and was used for the storage of No. 2 fuel oil. The oil was used to heat the building.

1.2 Site Conditions

The area in which AREE 63BE is located is largely blanketed by unconsolidated surficial deposits of glacial and post-glacial origin. The surficial glacial units consist of till, deltaic deposits of glacial Lake Nashua, and glacial stream deposits. AREE 63BE is located on the east side of a bedrock high which Engineering Technologies Associates, Inc. has modeled as a groundwater recharge area. According to the model, groundwater at AREE 63BE flows generally eastward toward Mirror Lake, then southward and eventually westward to the Nashua River. Shallow soil in the area of the UST was likely artificial fill associated with the UST and building, whereas the deeper material shows characteristics of a glacial till.

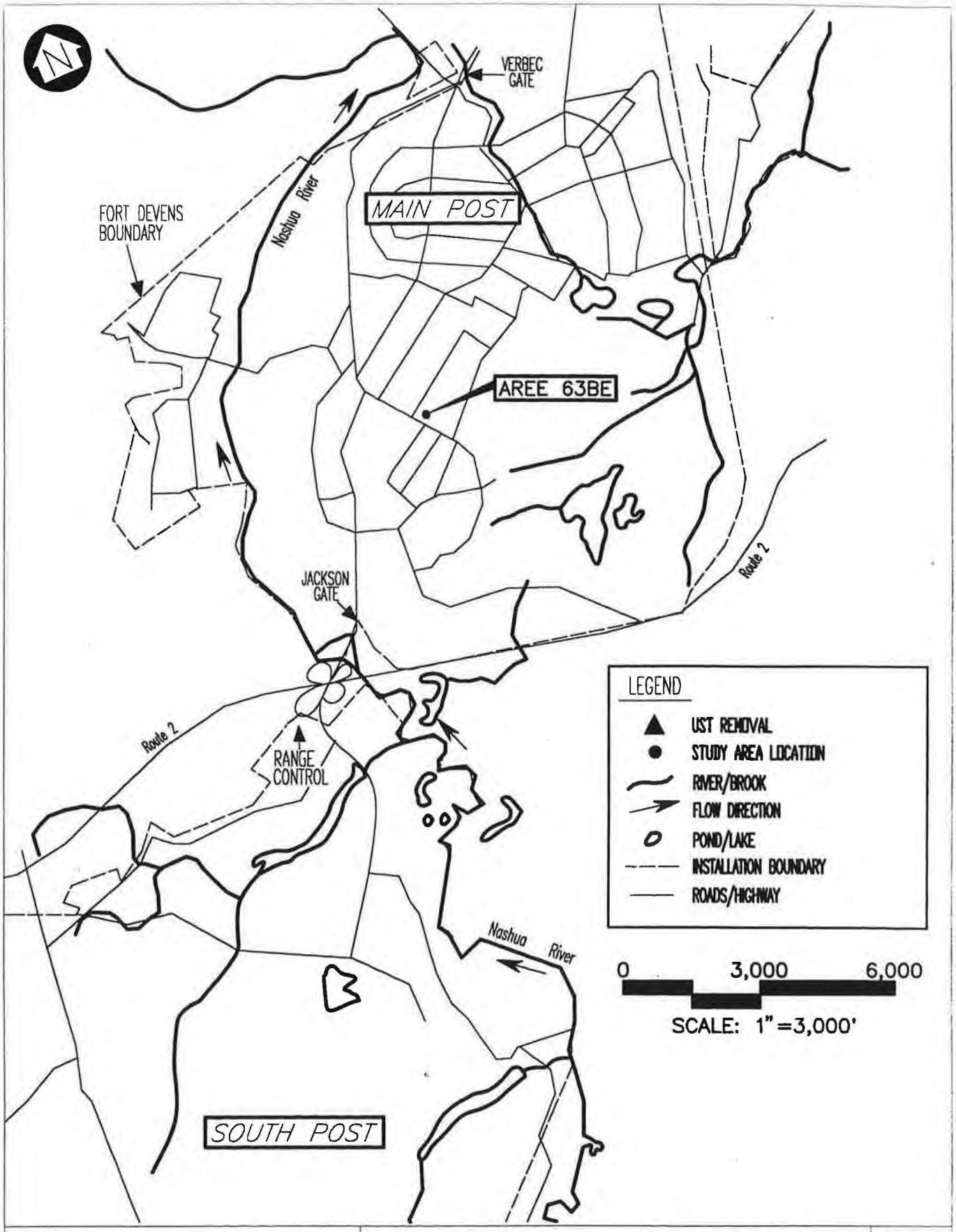
1.3 Previous AREE 63BE Investigation & Remedial Activities

ATEC Inc. removed the UST in January 1992, along with approximated 25 cubic yards (cy) of contaminated soil. Laboratory results indicated TPH concentrations ranging from 17 ug/g to 2,350 ug/g. Additional contaminated soil was removed in August of 1992, at which time the excavation was reportedly enlarged to an area of 18 by 25 feet and to a depth of 9.5 feet. Six confirmation samples were collected at that time to

document remaining TPH concentrations in the soil. Laboratory results indicated that TPH was present in the bottom of the excavation at concentrations in excess of 4,000 ug/g. The excavation was lined with polyethylene sheeting and backfilled. ABB Environmental Services, Inc. (ABB) confirmed the presence of petroleum contamination at the approximate depth of groundwater in their Supplemental Site Evaluation conducted in 1994.

1.4 AREE 63BE Action Memorandum

ABB prepared an Action Memorandum, under CERCLA, for AREE 63BE in October of 1994. The Action Memorandum documents the Army's decision to perform a removal action for the Leaking Underground Storage Tank (LUST) site associated with Building 2290.



DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS

FORT DEVENS, MASSACHUSETTS
CONTAMINATED SOIL REMOVAL, VARIOUS SITES

COMPREHENSIVE SITE LOCATION MAP

FIGURE 1-1

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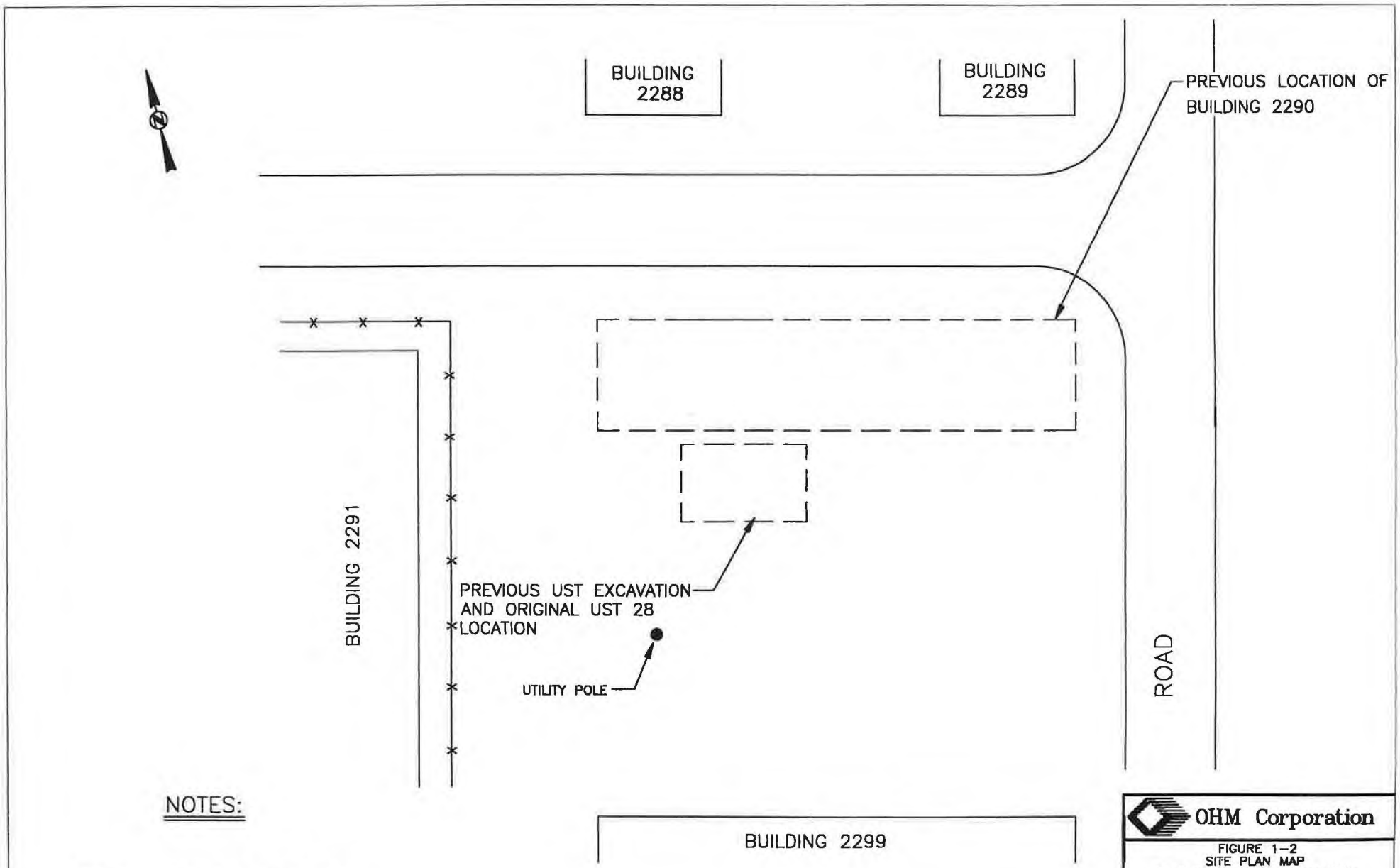

OHM Corporation

FIGURE 1-2
SITE PLAN MAP
FT. DEVENS CONTAMINATED SOIL REMOVAL
FT. DEVENS, MASSACHUSETTS

PREPARED FOR
U.S. ARMY CORPS OF ENGINEERS
WALTHAM, MASSACHUSETTS

DATE: 12-28-94 | PREPARED BY: KJM | OHM JOB NO.16208

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SECTION 2.0
PETROLEUM-CONTAMINATED SOIL REMOVAL

OHM was contracted by the USACE NED to demolish Building 2290, excavate the petroleum-contaminated soil remaining at AREE 63BE, coordinate disposal of the excavated material and restore the site by backfilling and seeding.

2.1 Site Preparation Activities

Pre-excavation activities were conducted at AREE 63BE to ensure that contaminants would be contained at the site and to prevent the general population from coming into contact with contaminants exposed through excavation activities. An exclusion zone was demarcated using orange fencing, and staging cells were constructed for temporary storage of contaminated soils. Sand berms were constructed at the perimeter of each staging cell and the cells were double lined with polyethylene sheeting. Clean soil that had been placed in the excavation following previous excavation activities in 1992 was removed and stockpiled.

2.2 Building Demolition & Asbestos Removal

OHM demolished Building 2290 after it was established that contamination extended underneath the building foundation. Building 2290 was one story, approximately 106 feet by 26 feet, and of wood frame construction with vinyl siding. Due to the age of the structure (World War II era), asbestos containing materials (ACM) were present in the building. OHM conducted the asbestos abatement prior to demolishing the building. Recon Environmental Corporation (Recon) was subcontracted to perform the air monitoring during the abatement and TRC Environmental Corporation (TRC) performed the laboratory analyses. Refer to Appendix A for Asbestos air sample results. OHM removed approximately 5.5 cubic yard boxes of ACM from Building 2290 and shipped them to Chicopee sanitary landfill in Chicopee, Massachusetts. Refer to Appendix B for Transportation & Disposal Documentation for the ACM.

Upon completion of the asbestos abatement, OHM demolished Building 2290. Waste Management of Central Massachusetts transported approximately 120 tons of building debris to the P.T.R.T. Inc. sanitary landfill in Marlboro, Massachusetts. Refer to Appendix C for Transportation & Disposal Documentation for the demolition debris.

2.3 Excavation and Soil Screening Activities

Excavation of contaminated soil was initiated on September 27, 1994 after the clean soil used for backfilling the previous excavation in 1992 was removed and stockpiled. Initial excavation work was conducted to determine if it was necessary to demolish Building 2290. Contamination was found in the area of the foundation supports, and based on this information, the Army determined that demolition of the building was necessary. Excavation resumed on November 2, 1994, subsequent to the building demolition. Samples were collected during excavation and screened for TPH on site, in order to guide the excavation and segregate clean soil from contaminated soil. The clean up goal for TPH was 500 ug/g, which is the S-1, GW-1 standard under the Massachusetts Contingency Plan (MCP). The decision to continue excavating was based on the field screening results for TPH. Soil samples were relinquished to the on-site laboratory immediately following collection and screening results were generally provided to the site supervisor within two hours. Excavation

would only continue in areas where screening results indicated concentrations of TPH in excess of the site action level.

The excavation extended into groundwater and consequently, dewatering was required during the removal action. Groundwater was pumped into Frac tanks located in the area of the excavation. The Frac tanks were sampled after they were filled and analyzed for TPH, lead, and BTEX compounds to determine whether or not the water needed to be treated prior to discharge. Water which exceeded the discharge levels for these compounds, established under OHM's discharge permit for their treatment system on Lake George Street, were treated and discharged. Water which met the discharge criteria was discharged at a storm drain on site after an additional NPDES permit was obtained for this location.

Excavation continued under the guidance of the field screening program until December 7, 1994 when it became evident that contamination extended under the streets adjacent to the Building 2290 lot. These screening sample results indicate that contamination continues in a northerly and easterly direction. Further excavation was discontinued until a soil boring investigation could be completed to determine the lateral extent of contamination. A summary of soil sample screening results is presented in Table 2-1 and on-site laboratory raw data and reporting forms are provided in Appendix D.

Table 2-1
Soil Sample Screening Results
Excavation Samples
Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
BLDG2290B1	Excavation bottom	9/27/94	8 feet	2087
BLDG2290W1	South Excavation wall	9/27/94	15 feet	274
BLDG2290W2	South Excavation wall	9/27/94	2 feet	ND
BLDG2290W3	South Excavation wall	9/27/94	3.5 feet	ND
BLDG2290W4	South Excavation wall	9/27/94	5 feet	ND
BLDG2290W5	South Excavation wall	9/27/94	6 feet	ND
BLDG2290W6	South Excavation wall	9/27/94	8 feet	3904
BLDG2290B2	South Excavation wall	9/27/94	10 feet	3147
SBAR63BEB1	NW Excavation wall	11/2/94	10 feet	3331
SBAR63BEB2	NE Excavation wall	11/2/94	10 feet	1855
SBAR63BEB3	Excavation bottom	11/2/94	10 feet	1400
SBAR63BEW1	NE Excavation wall	11/2/94	8.5 feet	6048
SBAR63BEW2	NW Excavation wall	11/2/94	8.5 feet	1264
SBAR63BEW3	NE Excavation wall	11/2/94	9 feet	339
SBAR63BEB4	Easterly Excavation wall	11/2/94	10.5 feet	5159
SBAR63BEW4	Easterly Excavation wall	11/2/94	9 feet	85
SBAR63BEW5	Easterly Excavation wall	11/2/94	10 feet	3067
SBAR63BEW6	S. Excavation wall	11/2/94	10 feet	897
SBAR63BEW7	S. Excavation wall	11/2/94	9.5 feet	1354
SBAR63BEB5	Excavation bottom	11/3/94	14.5 feet	325
SBAR63BEB6	SW Excavation wall	11/3/94	10 feet	ND
SBAR63BEB7	SW Excavation wall	11/3/94	10 feet	1112
SBAR63BEB8	SW Excavation wall	11/3/94	10 feet	2010
SBAR63BEW8	Excavation bottom	11/3/94	13.5 feet	6472

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEW10	SW Excavation wall	11/3/94	8 feet	196
SBAR63BEW11	SW Excavation wall	11/3/94	8 feet	2191
SBAR63BEB9	Excavation bottom	11/8/94	13 feet	ND
SBAR63BEB10	Excavation bottom	11/8/94	13 feet	ND
SBAR63BEB11	Excavation bottom	11/8/94	13 feet	64
SBAR63BEB12	NW Excavation wall	11/8/94	10.75 feet	2472
SBAR63BEW12	NW Excavation wall	11/8/94	9.25 feet	816
SBAR63BEW13	NW Excavation wall	11/8/94	8.75 feet	ND
SBAR63BEW14	S. Excavation wall	11/8/94	10.5 feet	ND
SBAR63BEW15	S. Excavation wall	11/8/94	8.75 feet	ND
SBAR63BEW16	S. Excavation wall	11/8/94	10.5 feet	8126
SBAR63BEW17	N. Excavation wall	11/8/94	9.5 feet	2714
SBAR63BEW18	N. Excavation wall	11/8/94	11.25 feet	4002
SBAR63BEW19	W. Excavation wall	11/8/94	8.75 feet	4376
SBAR63BEW20	W. Excavation wall	11/8/94	11.25 feet	4838
SBAR63BEW21	S. Excavation wall	11/9/94	10 feet	ND
SBAR63BEW22	S. Excavation wall	11/9/94	10 feet	ND
SBAR63BEW23	S. Excavation wall	11/9/94	10.67 feet	5734
SBAR63BEW24	S. Excavation wall	11/9/94	10.33 feet	222
SBAR63BEW25	S. Excavation wall	11/9/94	11.33 feet	2664
SBAR63BEW26	S. Excavation wall	11/9/94	10.5 feet	320
SBAR63BEW27	E. Excavation wall	11/9/94	11.75 feet	4711
SBAR63BEB13	Excavation bottom	11/9/94	13 feet	578
SBAR63BEB14	N. Excavation wall	11/9/94	13.67 feet	422
SBAR63BEW28	E. Excavation wall	11/9/94	11.25 feet	1333
SBAR63BEW29	E. Excavation wall	11/9/94	12.5 feet	2738
SBAR63BEW30	S. Excavation wall	11/16/94	12 feet	ND

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEW32	S. Excavation wall	11/16/94	12 feet	ND
SBAR63BEW33	S. Excavation wall	11/16/94	9 feet	ND
SBAR63BEW34	S. Excavation wall	11/16/94	9 feet	ND
SBAR63BEB15	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEW35	S. Excavation wall	11/16/94	11 feet	2898
SBAR63BEB16	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEB17	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEB18	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEW37	S. Excavation wall	11/16/94	12 feet	ND
SBAR63BEW38	S. Excavation wall	11/16/94	11.5 feet	ND
SBAR63BEW39	S. Excavation wall	11/16/94	10.5 feet	1697
SBAR63BEW40	S. Excavation wall	11/16/94	N/A	1939
SBAR63BEW41	E. Excavation wall	11/17/94	11 feet	3121
SBAR63BEW42	E. Excavation wall	11/18/94	12.5 feet	ND
SBAR63BEW43	E. Excavation wall	11/18/94	12.5 feet	ND
SBAR63BEW36	S. Excavation wall	11/16/94	12 feet	ND
SBAR63BEW44	E. Excavation Wall	11/18/95	12 feet	ND
SBAR63BEW45	E. Excavation Wall	11/18/95	12 feet	4596
SBAR63BEW46	E. Excavation Wall	11/18/95	12 feet	2589
SBAR63BEB19	E. Excavation Wall	11/18/95	14.5 feet	193
SBAR63BEB20	E. Excavation Wall	11/18/95	14.5 feet	433
SBAR63BEW48	E. Excavation Wall	11/21/95	10 feet	2519
SBAR63BEW49	E. Excavation Wall	11/22/95	11.5 feet	ND
SBAR63BEW50	E. Excavation Wall	11/22/95	11.5 feet	ND
SBAR63BEW51	E. Excavation Wall	11/22/95	11.5 feet	ND
SBAR63BEW52	E. Excavation Wall	11/22/95	15 feet	205
SBAR63BEW53	E. Excavation Wall	11/22/95	14.5 feet	ND

Table 2-1 (continued)
Soil Sample Screening Results
Excavation Samples
Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEW54	E. Excavation Wall	11/22/95	15 feet	971
SBAR63BEW55	W. Excavation Wall	11/22/95	13.5 feet	305
SBAR63BEW56	W. Excavation Wall	11/22/95	12 feet	574
SBAR63BEW57	W. Excavation Wall	11/22/95	15.5 feet	6318
SBAR63BEW58	W. Excavation Wall	11/22/95	12 feet	634
SBAR63BEW59	W. Excavation Wall	11/22/95	15 feet	202
SBAR63BEW60	W. Excavation Wall	11/22/95	11.5 feet	2042
SBAR63BEW61	W. Excavation Wall	11/22/95	9 feet	6840
SBAR63BEW62	W. Excavation Wall	11/22/95	9.5 feet	3680
SBAR63BEW63	W. Excavation Wall	11/22/95	10.5 feet	222
SBAR63BEW64	N. Excavation Wall	11/22/95	12 feet	ND
SBAR63BEW65	N. Excavation Wall	11/22/95	12 feet	1903
SBAR63BEW66	N. Excavation Wall	11/23/94	12 feet	903
SBAR63BEW67	N. Excavation Wall	11/23/94	12 feet	2182
SBAR63BEW68	N. Excavation Wall	11/23/94	12 feet	2200
SBAR63BEB21	Chimney Footing	11/30/94	9 feet	229
SBAR63BEB22	Chimney Footing	11/30/94	9 feet	74
SBAR63BEW69	E. Excavation Wall	11/30/94	12 feet	345
SBAR63BEW70	E. Excavation Wall	11/30/94	10 feet	725
SBAR63BEW71	E. Excavation Wall	11/30/94	8 feet	129
SBAR63BEB23	E. Excavation Wall	11/30/94	12.5 feet	837
SBAR63BEB24	Chimney footing	11/30/94	12.5 feet	366
SBAR63BEB25	Chimney footing	11/30/94	12.5 feet	2334

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEB27	W. Excavation Wall	11/30/94	10 feet	620
SBAR63BEW72	W. Excavation Wall	11/30/94	8 feet	3415
SBAR63BEW73	W. Excavation Wall	11/30/94	8 feet	1585
SBAR63BEW74	N. Excavation Wall	11/30/94	10 feet	1303
SBAR63BEW75	N. Excavation Wall	11/30/94	10 feet	108
SBAR63BEW76	N. Excavation Wall	11/30/94	10 feet	3187
SBAR63BEW77	W. Excavation Wall	11/30/94	11.5 feet	205
SBAR63BEW68	N. Excavation Wall	11/23/94	12 feet	2200
SBAR63BEW78	W. Excavation Wall	11/30/94	11.5 feet	75
SBAR63BEW79	W. Excavation Wall	11/30/94	11.5 feet	105
SBAR63BEW80	N. Excavation Wall	12/2/94	9 feet	125
SBAR63BEW81	N. Excavation Wall	12/2/94	9 feet	794
SBAR63BEW82	N. Excavation Wall	12/2/94	8.5 feet	3690
SBAR63BEW83	N. Excavation Wall	12/2/94	8 feet	2790
SBAR63BEW84	N. Excavation Wall	12/2/94	7 feet	6187
SBAR63BEW85	N. Excavation Wall	12/2/94	7 feet	807
SBAR63BEW86	N. Excavation Wall	12/2/94	11 feet	107
SBAR63BEW87	N. Excavation Wall	12/2/94	11 feet	335
SBAR63BEW88	N. Excavation Wall	12/2/94	11 feet	65
SBAR63BEW89	NE Excavation Wall	12/7/94	9.5 feet	735
SBAR63BEB28	NE Excavation Wall	12/7/94	12 feet	55
SBAR63BEW90	NE Excavation Wall	12/7/94	9.5 feet	1789
SBAR63BEB29	NE Excavation Wall	12/7/94	12 feet	347
SBAR63BEW91	NE Excavation Wall	12/7/94	9.5 feet	1615
SBAR63BEB30	NE Excavation Wall	12/7/94	12 feet	274
SBAR63BEW92	NE Excavation Wall	12/7/94	9.5 feet	50

Table 2-1 (continued)
Soil Sample Screening Results
Excavation Samples
Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEB31	NE Excavation Wall	12/7/94	12 feet	97
SBAR63BEW93	NE ExcavationWall	12/7/94	11 feet	1265
SBAR63BEW94	NE ExcavationWall	12/7/94	12.5 feet	464
SBAR63BEW95	NE ExcavationWall	12/7/94	10 feet	2209
SBAR63BEW96	W. ExcavationWall	1/5/95	5.33 feet	ND
SBAR63BEW97	W. ExcavationWall	1/5/95	5 ft-7 in	ND
SBAR63BEW98	W. ExcavationWall	1/5/95	5.5 feet	ND
SBAR63BEW99	W. ExcavationWall	1/5/95	5.5 feet	ND
SBAR63BEW100	W. ExcavationWall	1/5/95	7.75 feet	ND
SBAR63BEW101	W.ExcavationWall	1/5/95	9.25 feet	521
SBAR63BEW102	W. ExcavationWall	1/5/95	8.5 feet	1161
SBAR63BEW103	W. ExcavationWall	1/5/95	9 feet	1414
SBAR63BEW104	N. Excavation Wall	1/5/95	11.5 feet	1209
SBAR63BEW105	N. Excavation Wall	1/6/95	9.25 feet	ND
SBAR63BEW107	N. Excavation Wall	1/6/95	9 feet	5458
SBAR63BEW108	N. Excavation Wall	1/6/95	9.25 feet	1589
SBAR63BEW109	N. Excavation Wall	1/6/95	8.75 feet	123
SBAR63BEW106	N. Excavation Wall	1/6/95	9.25 feet	1436
SBAR63BEW110	N. Excavation Wall	1/6/95	5.75 feet	ND
SBAR63BEW111	N. Excavation Wall	1/6/95	5.67 feet	145
SBAR63BEW112	N. Excavation Wall	1/6/95	5.67 feet	ND
SBAR63BEW113	N. Excavation Wall	1/6/95	10.5 feet	5973
SBAR63BEB32	N. Excavation Wall	1/6/95	11.33 feet	671

Table 2-1 (continued)
Soil Sample Screening Results
Excavation Samples
Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEB33	N. Excavation Wall	1/6/95	11.33 feet	365
SBAR63BEB34	N. Excavation Wall	1/6/95	11.33 feet	ND
SBAR63BEW114	N. Excavation Wall	1/9/95	11 feet	2000
SBAR63BEW115	N. Excavation Wall	1/9/95	10.5 feet	2728
SBAR63BEW116	N. Excavation Wall	1/9/95	11 feet	2289
SBAR63BEW117	N. Excavation Wall	1/9/95	11 feet	1607

NOTES: TPH = total petroleum hydrocarbons
mg/kg = milligram per kilogram
ND = indicates TPH was not detected
J = Qualifier indicating estimated concentration below practical quantitation limit
NA = Not analyzed due to extraction problem
N/A = Not applicable

2.4 Soil Boring Investigation

OHM conducted a soil boring investigation on December 20 through 22, 1994 in order to determine the lateral extent of TPH contamination at the site. Ten borings were installed to depths ranging from 10 feet to 17 feet below ground surface (BGS). Refer to Figure 2-1 for soil boring locations. Continuous split spoon sampling was performed using a 2 inch stainless steel split spoon. All samples were screened on site for TPH and one sample from each boring was split to the off-site laboratory for TPH analysis. On-site screening results are summarized in Table 2-2 and the on-site soil sample documentation is provided in Appendix E. The ASC Report for the sample sent off site is provided as Appendix F. Four of the samples were also split with Metcalf & Eddy, the consultant for MADEP.

The results of the soil boring investigation indicated that soil contamination extends beyond the limits of the excavation in a northeasterly direction. The contamination appears to be limited to a 2-feet thick section of soil, at an approximate depth of 9 to 11 feet BGS. Based on the results of the soil boring investigation, the Army elected to backfill the excavation and conduct further investigation to determine the extent of soil contamination and the potential impact to groundwater.

Table 2-2
Soil Sample Results
Soil Boring Investigation
December 20,21 & 22, 1994
AREE 63BE

Sample ID	Boring ID	Sample Depth	On-site Laboratory TPH Result (mg/kg)	ASC Laboratory TPH Result (mg/kg)
AR63BEIB1A	IB1	5'-7'	ND (42)	N/A
AR63BEIB1B	IB1	7'-9'	ND (42)	N/A
AR63BEIB1C	IB1	9'-11'	ND (42)	ND (7.41)
AR63BEIB1D	IB1	11'-12'	ND (42)	N/A
AR63BEIB1E	IB1	12'-13.5'	ND (42)	N/A
AR63BEIB1F	IB1	14'-15'	ND (42)	N/A
AR63BEIB2A	IB2	5'-7'	ND (42)	N/A
AR63BEIB2B	IB2	7'-9'	ND (42)	N/A
AR63BEIB2C	IB2	9'-10'	ND (42)	ND (7.22)
AR63BEIB3A	IB3	5'-7'	ND (42)	N/A
AR63BEIB3B	IB3	7'-9'	ND (42)	N/A
AR63BEIB3C	IB3	9'-11'	ND (42)	ND (7.22)
AR63BEIB3D	IB3	11'-13'	ND (42)	N/A
AR63BEIB3E	IB3	13'-14.9'	ND (42)	N/A
AR63BEIB4A	IB4	5'-7'	ND (42)	N/A
AR63BEIB4B	IB4	7'-9'	ND (42)	N/A
AR63BEIB4C	IB4	9'-11'	ND (42)	N/A
AR63BEIB4D	IB4	11'-13'	ND (42)	N/A
AR63BEIB4E	IB4	13'-15'	ND (42)	12.6
AR63BEIB4F	IB4	15'-16.5'	ND (42)	N/A

Table 2-2 (continued)
Soil Sample Results
Soil Boring Investigation
December 20,21 & 22, 1994
AREE 63BE

Sample ID	Boring ID	Sample Depth	On-site Laboratory TPH Result (mg/kg)	ASC Laboratory TPH Result (mg/kg)
AR63BEIB5A	IB5	5'-7'	ND (42)	N/A
AR63BEIB5B	IB5	7'-9'	50	N/A
AR63BEIB5C1	IB5	9'-10'	324	287
AR63BEIB5C2	IB5	10'-11'	ND (42)	N/A
AR63BEIB5D	IB5	11'-13'	ND (42)	N/A
AR63BEIB5E	IB5	13'-15'	ND (42)	N/A
AR63BEIB5F	IB5	15'-16.3'	ND (42)	N/A
AR63BEIB6A	IB6	5'-7'	ND (42)	N/A
AR63BEIB6B	IB6	7'-9'	6J	N/A
AR63BEIB6C	IB6	9'-11'	1632	N/A
AR63BEIB6D	IB6	11'-13'	1077	621
AR63BEIB6E	IB6	13'-15'	89	N/A
AR63BEIB6F	IB6	15'-17'	193	N/A
AR63BEIB7A	IB7	5'-7'	ND (42)	N/A
AR63BEIB7B	IB7	7'-9'	8J	N/A
AR63BEIB7C	IB7	9'-11'	221	N/A
AR63BEIB7D	IB7	11'-13'	1630	1100
AR63BEIB7E	IB7	13'-15'	60	N/A
AR63BEIB7F	IB7	15'-17'	25J	N/A
AR63BEIB8A	IB8	5'-7'	ND (42)	N/A

Table 2-2 (continued)
Soil Sample Results
Soil Boring Investigation
December 20,21 & 22, 1994
AREE 63BE

Sample ID	Boring ID	Sample Depth	On-site Laboratory TPH Result (mg/kg)	ASC Laboratory TPH Result (mg/kg)
AR63BEIB8B	IB8	7'-9'	ND (42)	N/A
AR63BEIB8C	IB8	9'-11'	23J	N/A
AR63BEIB8D	IB8	11'-13'	122	140
AR63BEIB8E	IB8	13'-15'	ND (42)	N/A
AR63BEIB8F	IB8	15'-17'	ND (42)	N/A
AR63BEIB9A	IB9	5'-7'	ND (42)	N/A
AR63BEIB9B	IB9	7'-9'	ND (42)	N/A
AR63BEIB9C	IB9	9'-11'	ND (42)	N/A
AR63BEIB9D	IB9	11'-13'	915	N/A
AR63BEIB9E	IB9	13'-15'	573	415
AR63BEIB9F	IB9	15'-17'	101	N/A
AR63BEIB9G	IB9	17'-19'	ND (42)	N/A
AR63BEIB10A	IB10	5'-7'	ND (42)	N/A
AR63BEIB10B	IB10	7'-9'	518	N/A
AR63BEIB10C	IB10	9'-11'	ND (42)	N/A
AR63BEIB10D	IB10	11'-13'	600	N/A
AR63BEIB10E	IB10	13'-15'	721	431
AR63BEIB10F	IB10	15'-17'	ND (42)	N/A
AR63BEIB10G	IB10	17'-19'	ND (42)	N/A

NOTES: TPH = total petroleum hydrocarbons
mg/kg = milligram per kilogram
ND = indicates TPH was not detected
J = Qualifier indicating estimated concentration below practical quantitation limit
N/A = Not applicable

2.5 Confirmation Sampling

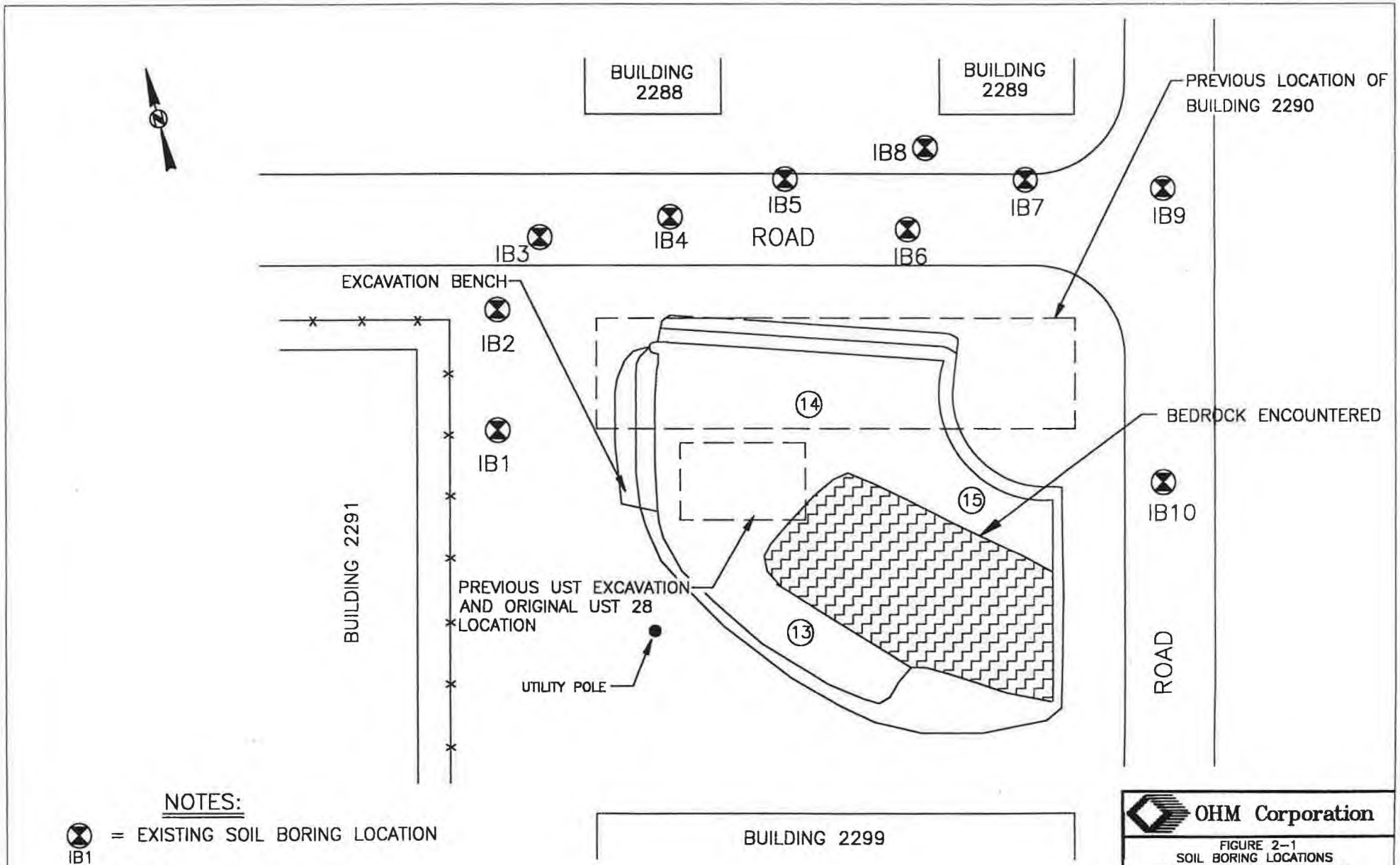
Confirmation samples were collected from the bottom and sidewalls of the excavation to document the remaining concentrations of targeted compounds. A total of six confirmation samples were collected; five from the sidewalls and one from the bottom of the excavation. The sidewalls were divided into sections for sampling and the bottom sample was collected from the northeastern corner of the excavation, which is the only section of the excavation bottom that did not consist of bedrock. Composite samples consisting of up to nine subsamples were collected and analyzed for TPH and BNA compounds at ASC laboratory located in Findlay, Ohio. One subsample from each composite was submitted for analysis of BTEX compounds. Refer to Table 2-3 for confirmation sample results and Appendix G for the laboratory's analytical report. Figure 2-2 provides the sample locations making up the confirmation samples. TPH analysis was conducted by EPA Method 418.1, BNA analysis by EPA Method 8270, and BTEX by method EPA 8020. The composite and discrete samples, designated SBAR63BEEC and SBAR63BEEG respectively, were collected in triplicate for quality assurance/quality control (QA/QC) purposes. Two of the split samples were sent to ASC and the third split was submitted to the USACE QA laboratory in Hubbardston, Massachusetts.

Confirmation sample results indicate that although a relatively thin layer of contaminated soil still exists, average TPH concentrations are below the MCP S-1/GW-1 standard, with the exception of composite sample points SBAR63BEAC and SBAR63BEEC. These composite samples each consisted of numerous discrete samples collected from the northern sidewall of the excavation. The analytical results indicated TPH concentrations of 534 and 510 mg/kg, respectively for samples SBAR63BEAC and SBAR63BEEC.

2.6 Waste Characterization & Disposal

The contaminated material has been characterized for disposal. Samples were collected at 100 and 400 cy frequencies. Samples collected at the 100 cy frequency were analyzed for TPH, full TCLP parameters, and RCRA characteristics. Samples collected at the 400 cy frequency were analyzed for VOCs, PAHs, PCBs and RCRA metals. The results of these tests verified that petroleum was the only source of contamination at the site. The analytical reports for the characterizations are located in Appendix H.

The soil is currently stockpiled at the temporary storage facility located near Building. The soil will ultimately be utilized as subcover material in the Consolidation Landfill proposed for construction at Fort Devens. A total of 4036 tons of contaminated soil from AREE 63BE was transported to the temporary storage facility. Material Shipping Records for this soil are provided at the very end of Appendix H.



NOTES:

⊗ IB1 = EXISTING SOIL BORING LOCATION

APPROXIMATE SCALE 1" = 30'

(14) = APPROXIMATE DEPTH IN FEET

OHM Corporation

FIGURE 2-1
SOIL BORING LOCATIONS
FT. DEVENS CONTAMINATED SOIL REMOVAL
FT. DEVENS, MASSACHUSETTS

PREPARED FOR
U.S. ARMY CORPS OF ENGINEERS
WALTHAM, MASSACHUSETTS

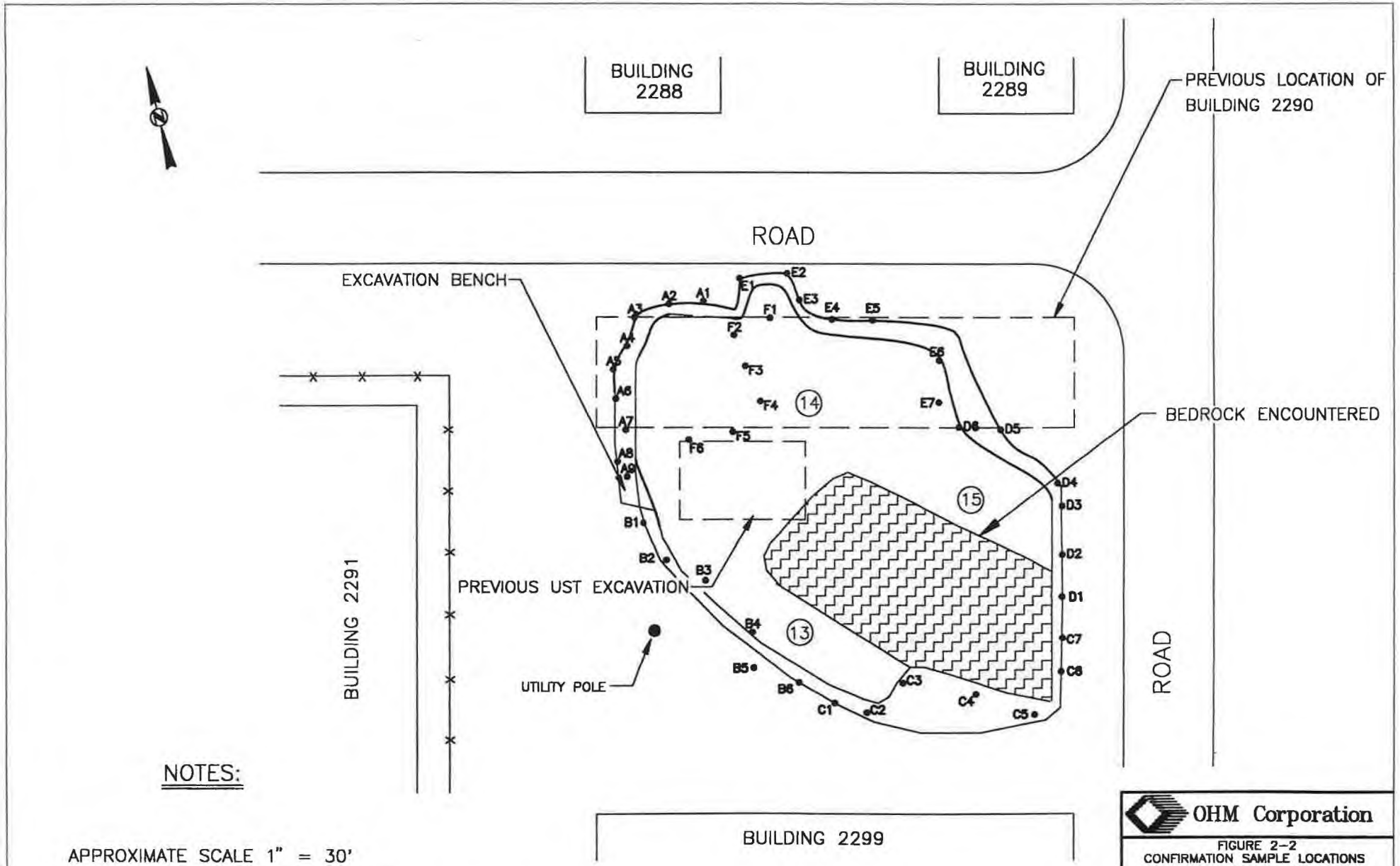
DATE: 12-28-94 | PREPARED BY: KJM | OHM JOB NO. 16208

J:\16208\AREE6.3BE

Table 2-3
Confirmation Soil Sample Results
January 12 & 13, 1995
AREE 63BE

Sample ID	Sample Type	Sample Location	Total BTEX Result (mg/kg)	Total BNA Result (mg/kg)	TPH Result (mg/kg)
SBAR63BEAC	Composite	NW Excavation Wall		1.760	534
SBAR63BEAG	Grab	NW Excavation Wall	ND		
SBAR63BEBC	Composite	SW Excavation Wall		ND	10.5
SBAR63BEBG	Grab	SW Excavation Wall	ND		
SBAR63BECC	Composite	SE Excavation Wall		ND	7.91
SBAR63BECG	Grab	SE Excavation Wall	ND		
SBAR63BEDC	Composite	E. Excavation Wall		ND	57.6
SBAR63BEDG	Grab	E. Excavation Wall	ND		
SBAR63BEEC	Composite	N. Excavation Wall		1.835	510
SBAR63BEEG	Grab	N. Excavation Wall	0.808		
SBAR63BEFC	Composite	NW Excavation Wall		0.454	200
SBAR63BEFG	Grab	NW Excavation Wall	0.009		
SBAR63BEDP	Composite	E. Excavation Wall		2.261	374
SBAR63BED4	Grab	E. Excavation Wall	0.276		

NOTES: TPH = total petroleum hydrocarbons
BTEX = benzene, ethylbenzene, toluene, xylenes
mg/kg = milligram per kilogram
ND = indicates TPH was not detected
J = Qualifier indicating estimated concentration below practical quantitation limit
N/A = Not applicable



NOTES:

APPROXIMATE SCALE 1" = 30'

(14) = APPROXIMATE DEPTH IN FEET

C1• = CONFIRMATION SAMPLES PRECEDED BY SBAR63BE

OHM Corporation

FIGURE 2-2
CONFIRMATION SAMPLE LOCATIONS
FT. DEVENS CONTAMINATED SOIL REMOVAL
FT. DEVENS, MASSACHUSETTS

PREPARED FOR
U.S. ARMY CORPS OF ENGINEERS
WALTHAM, MASSACHUSETTS

DATE: 12-28-94 | PREPARED BY: KJM | OHM JOB NO. 18208

2.7 Quality Assurance/Quality Control

Appropriate quality assurance\quality control measures were taken to ensure the collection of representative soil samples and the generation of accurate and reproducible analytical data.

2.7.1 Sample Collection Quality Control

Soil samples were collected using either a stainless steel trowel or disposable polyethylene scoops. Composite samples were thoroughly homogenized in stainless steel sampling buckets. The sampling equipment was decontaminated using the following procedure:

1) Non-phosphate soap & water rinse;
2) tap water rinse;
3) distilled water rinse;
4) 10% nitric acid rinse;
5) distilled water rinse;
6) methanol rinse; and
7) distilled water rinse.

Sample integrity was also maintained by changing gloves between each sample point. Samples SBAR63BEEC and SBAR63BEEG were both collected in triplicate for QA/QC purposes. A comparison of the results of these samples and their respective duplicates indicates a good correlation. A comparison of on-site screening results with off-site analytical results also indicates a reasonably good correlation. In general, the on-site results were higher than the off-site results.

All samples collected on site were entered on a chain of custody and documented on a sample collection log and a permanent logbook. Samples sent off site were properly preserved, packaged, and overnight shipped to the laboratory.

2.7.2 Laboratory Quality Control

Quality control measures were taken in the on-site laboratory to ensure the accuracy and precision of the analytical data. TPH concentrations were determined using an infrared spectrometer (IR). A calibration curve was developed for the IR, prior to the start up of sampling activities, to establish detection limits and document linearity of the instrument response. A single calibration point was run in triplicate to demonstrate measurement precision. Continuing calibrations were also performed on a daily basis thereafter to provide a check on instrument response.

The off-site laboratory took the proper quality control measures as specified in the methods used. Samples were properly preserved upon receipt by the laboratory and sample extraction and analysis were performed within the holding times specified in the methods. Blank and spike samples associated with the AREE 63BE samples were within acceptable QC limits.

The USACE Environmental laboratory prepared a Chemical Quality Assurance Report (CQAR) comparing the primary samples analyzed by the contract laboratory with the QA samples analyzed by the USACE laboratory. In general, the results of the comparison indicated good agreement between the two laboratories. There was one major discrepancy and three minor discrepancies reported for the PAH analyses for sample

EXAR63BE5A. There were also three major discrepancies reported for the TCLP metals analyses, however, upon review of the data, it was discovered that the comparison was made between total metals reported by the contract laboratory and TCLP metals reported by the QA laboratory. Further review indicated no major discrepancies for the TCLP metals data. All of the other comparisons made indicated 100% agreement between the two laboratories. Refer to Appendix I for the CQAR report.

2.8 Backfilling and Site Restoration

The approximate final dimensions of the excavation were 65 feet by 100 feet, although the excavation was not square. The clean soil removed from the excavation was used for backfill, and clean fill from the North Post of Fort Devens was transported to the site to complete the backfilling. This fill material was sampled at the source and screened for TPH prior to its use on site. Approximately 2500 cubic yards of soil were used in addition to the clean soil removed during excavation.

SECTION 3.0
CONCLUSIONS

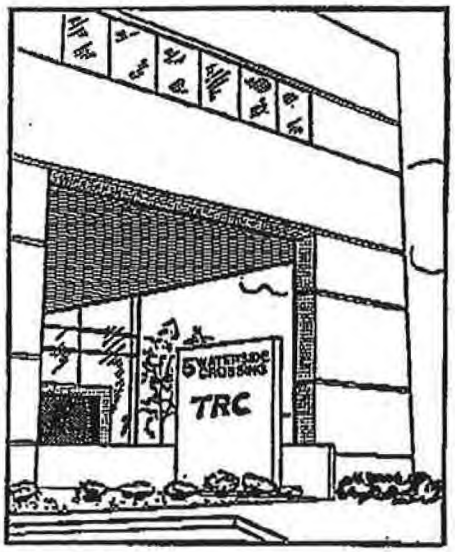
AREE 63BE is the designation given to the area affected by the 1,000 gallon UST associated with Building 2290. AREE 63BE is located in the central portion of the Main Post near Queenstown, Givry and Quebec Streets. The UST associated with Building 2290 was removed by ATEC in January 1992 along with 25 cubic yards of contaminated soil. Additional contaminated soil was removed in August 1992, after which time, the excavation was lined and backfilled. Elevated TPH concentrations remained in the excavation subsequent to the removal action conducted in 1992, which was confirmed during the Supplemental Site Evaluation conducted by ABB in 1994.

The NED contracted OHM to demolish Building 2290 and remove the remaining contaminated soil. Site photographs are provided as Appendix J. OHM conducted an asbestos abatement prior to demolishing Building 2290 and removing an estimated 2500 cubic yards (cy) of contaminated soil from AREE 63BE. Screening samples were collected to guide the excavation and determine when the 500 ug/g action level had been achieved. When it became evident that contamination extended under the roads adjacent to the Building 2290 property, the Army directed OHM to stop further excavation and to conduct a soil boring investigation to determine the lateral extent of contamination. OHM installed ten soil borings to determine the lateral extent of contamination to the north and east of the excavation. Results of the soil boring investigation indicated that soil contamination extended beyond the limits of the excavation in a northeasterly direction at an approximate depth of 9 to 11 feet BGS. Based on the results of the soil boring investigation, the Army decided to backfill the excavation.

Confirmation soil samples were collected from the excavation bottom and sidewalls in order to document existing conditions prior to backfilling. The results indicate that average TPH concentrations are below the MCP S-1/GW-1 standard on the bottom and three of the sidewalls of the excavation. Average TPH concentrations above 500 mg/kg still existed along the northern sidewall of the excavation, although all remaining contamination was documented to be below 2,500 mg/kg. The excavated soil was placed into the temporary soil storage area at Building 202, until it can be utilized as cover material in the Consolidation Landfill proposed for construction at Fort Devens. Further investigation will be conducted to better define the lateral extent of soil contamination at the site and assess the potential impact to groundwater.

Appendix A
Asbestos Air Sampling Results

Fax Cover Sheet



TO: Kevin Mack

FAX NUMBER: 508-772-6792

Company: OHM Corp.

Address:

Number of Pages (including this one): 3

Date: 11/4/94 **Time:** 8:30 AM

Charge No: 10901-20001-021

Comments: Kevin-

Here are your asbestos results from 11/3/94. Call me at (203) 298-6326 with any questions.

From: Lance Colton

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM / FORT DEVENS

Project #:

Location: FORT DEVENS, MASSACHUSETTS

Date Sampled: OCT 17, 1994 Rotameter #: 014

Microscope Serial #:

Field Area (in sq):

Date Analyzed: 10/19/94 Lab Batch #: 15267

Analyst (print): Lance Cotton

TEM AHERA ___ NIOSH 7400 ✓ PACAM 239 ___

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITRE/MIN START	ROTAMETER LITRE/MIN STOP	SAMPLE VOLUME LITERS	FIBERS/FIELDS OPTICAL	ANAL-YST Sg	FIBER LEVEL f/cc
RECON ENVIRONMENTAL CORPORATION 279275 APPLICATION #	SA-36 ON THE SOUTH SIDE OF CONCRETE SLAB, BACKGROUND AIR SAMPLE	3874	0825	1240	255	12.0	12.0	12.0	3060	0/100	Lance Cotton	ndl 0.0009
RECON ENVIRONMENTAL CORPORATION 279276 APPLICATION #	SA-36 ON THE NORTH SIDE OF THE CONCRETE SLAB. BACKGROUND AIR SAMPLE	964	0825	1240	255	12.0	12.0	12.0	3060	3/100	Lance Cotton	ndl 0.0009
RECON ENVIRONMENTAL CORPORATION 279277 APPLICATION #	SA-36 INSIDE THE TUNNEL AREA. BACKGROUND AIR SAMPLE	854	0825	1240	255	12.0	12.0	12.0	3060	2/100	Lance Cotton	ndl 0.0009
RECON ENVIRONMENTAL CORPORATION 279278 APPLICATION # (QC'd 3/100 LRC)	BLDG # T-2290 ON THE EAST SIDE OF NEAR THE PIPE INSULATION, BACKGROUND SAMPLE	1631	0835	1255	260	12.0	12.0	12.0	3120	6/100	Lance Cotton	ndl 0.0009
RECON ENVIRONMENTAL CORPORATION 279279 APPLICATION #	BLDG # T-2290 IN THE CENTER, NEAR THE FLOOR TILE, BACKGROUND SAMPLE	1721	0835	1255	260	12.0	12.0	12.0	3120	0/100	Lance Cotton	ndl 0.0009

	FIBERS/FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT #	BLANK TYPE LAB	BLANK TYPE FIELD	FIBERS/FIELDS	
RECON ENVIRONMENTAL CORPORATION 279280 F.B. APPLICATION # — Fibers/fields 1/100			✓	MCE	R7EM55451	✓			RECON ENVIRONMENTAL CORPORATION 279281 F.B. APPLICATION # — 0/100 fibers/fields

Temp: ______ °C Barometer: ______ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above 'A' counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

(Analyst's Signature)

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 19
Field Technical Services
Rev. 08/89

Nº 115101

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

15267

PROJECT NAME: FORT DEVENS
PROJECT LOCATION: FORT DEVENS MASSACHUSETTS
PROJ. NO.: 16208
PROJECT CONTACT: Kevin Mack
PROJECT TELEPHONE NO.: 508 772-2275
CLIENT'S REPRESENTATIVE: Tom Best (USACE)
PROJECT MANAGER/SUPERVISOR: Bill Snow

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): NIOSH 7400

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	NIOSH 7400	REMARKS
1	279275	10-17	1315			PCM AIR	1	✓	
2	279276	10-17	1315			PCM AIR	1	✓	
3	279277	10-17	1315			PCM AIR	1	✓	
4	279278	10-17	1315			PCM AIR	1	✓	
5	279279	10-17	1315			PCM AIR	1	✓	
6	279280	10-17	1315			BLANK	1	✓	
7	279281	10-17	1315			BLANK	1	✓	
8									
9									
10									

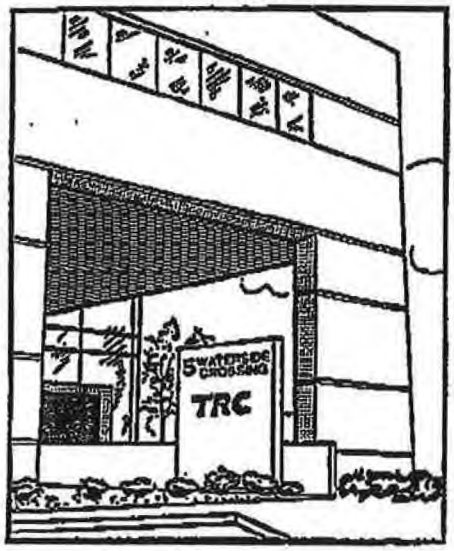
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-7	Ken DESJARDINS [signature]	[signature]	10-17-94	1330
2	1-7	[signature]	Fed Ex. Airbill 1944570250	10-17-94	1400
3			Lance Cotton	10/18/94	10:42
4					

REMARKS

SAMPLER'S SIGNATURE: [signature]

LAB COPY

Fax Cover Sheet



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TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: 44445

Location: FORT DEVENS, MA

Date Sampled: 10-19-94 Rotameter #:

Microscope Serial #:

Field Area (in sq):

Date Analyzed: 10/20/94 Lab Batch #: 15276

Analyst (print): Lanie Cotton

PEN ARBEA ____ NIOSH 7400 ✓ PCM 239 ____

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID #	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	#FIBERS #FIELDS OPTICAL	ANALYST Sr	FIBER LEVEL f/cc	FI LE L
RECON ENVIRONMENTAL CORPORATION 279297 APPLICATION #	PERIMETER AIR SAMPLE ON EAST BOUNDARY DENOTE GROUND DURING FLOOR TILE REMOVAL AT BLDG # T-2290.	4SP-14	0830	1450	380	2.0	2.0	2.0	760	37/100	Lanie Cotton	0.0239	
2 (7)	IN / OUT												
3 (8)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

RECON ENVIRONMENTAL CORPORATION 279298 APPLICATION #	#FIBERS #FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT	BLANK TYPE LAB	BLANK TYPE FIELD	#FIBERS #FIELDS
		✓			RWENSH51			0/100

BLANK

Temp: ____ °C Barometer: ____ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "A" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

Lanie Cotton 10/20/94
(Analyst's Signature)

Reviewed by [illegible] 10/24/94

3/1/90

IED ENGINEERING & TESTING COMPANY, INC.

'ocs Particulate Monitoring and Analysis Data Form

OHM

Microscope Serial #: _____

Project Name: OHM - FORT DEVENS

Field Area (sq): _____

Project #: W40445

Date Analyzed: 10/20/94 Lab Batch #: 15276

Location: FORT DEVENS, MA

Analyst (print): Lance Cotton

Date Sampled: 10-19-94 Rotameter #: _____

TEM 1EERA _____ NIOSH 7400 ✓ PCM 235 _____

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP # ID	START TIME (HOUR)	STOP TIME (HOUR)	RUN TIME (MINS)	FLOW RATE L/M	ROTAMETER START/STOP LITER/MIN	SAMPLE VOLUME LITERS OPTICAL	FIBERS FIELDS	ANALYST Sr	FIBER LEVEL f/cc	FI. LE
RECON ENVIRONMENTAL CORPORATION 279299 APPLICATION # _____	BLDG #T-2290 OUTSIDE THE DECON DURING FLOOR TILE REMOVAL Qc'd 0/100 LBC	964	0825	1300	275	12.0	12.0 / 12.0	3300.	0/100	Lance Cotton	ND<0.008	
RECON ENVIRONMENTAL CORPORATION 279300 APPLICATION # _____	BLDG #T-2290 OUTSIDE THE DECON DURING FLOOR TILE REMOVAL	3874	1005	1440	275	12.0	12.0 / 12.0	3300	3/101	Lance Cotton	ND<0.008	
3 (6)	IN _____ OUT _____											
4 (9)	IN _____ OUT _____											
5 (10)	IN _____ OUT _____											

RECON ENVIRONMENTAL CORP 279301 APPLICATION # _____

FIBERS FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT	BLANK TYPE LAB	BLANK TYPE FIELD	FIBERS FIELDS
		✓		RLENSFS1			0/100

BLANK

Temp: _____ C Barometer: _____ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "1" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

Lance Cotton
Reviewed (Analyst's Signature) 10/21/94

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Field Te

No. 1077

OCT 24 '94 09:18AM TRC WINDSOR P.2

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: OHM – Fort Devens	PROJECT LOCATION: Fort Devens MA
PROJ. NO.: 16208	PROJECT CONTACT: Kevin Mack
PROJECT TELEPHONE NO.: (508) 772-2275	
CLIENT'S REPRESENTATIVE: Tom Dest (USACE)	PROJECT MANAGER/SUPERVISOR: Bill Snow

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): NIOSH 7400

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	NIOSH 7400	REMARKS
1	279297	10-19	1515			NIOSH 7400 [illegible]	1	✓	
2	279298	10-19	1515			NIOSH 7400 BUHR	1	✓	
3	277299	10-19	1515			NIOSH 7400 AMEA	1	✓	
4	729300	10-19	1515			NIOSH 7400 AMEA	1	✓	
5	729301	10-19	1515			NIOSH 7400 BUHR	1	✓	
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-5	[signature]	Fed Ex Airbill 1944 570191	10-19-94	1800
2			Lance Cotton	10/20	18:10 pm
3					
4					

REMARKS: 24 hr TAT

SAMPLER'S SIGNATURE: [signature] Ken Desmarais

TRANSFER 2

3/1/90

...IED ENGINEERING & TESTING COMPANY, INC.

...ers Particulate Monitoring and Analysis Data Form

OHM

Microscope Serial #:

Project Name: OHM - FORT DEVENS

Field Area (mm sq):

Project #: W40445

Date Analyzed: 10/20/94 Lab Batch #: 15276

Location: FORT DEVENS, MA

Analyst (print): Lance Cotton

Date Sampled: 10-19-94 Rotameter #:

TEM AHERA ____ NIOSH 7400 ✓ PCAM 239 ____

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID #	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITRE/MIN START	ROTAMETER LITRE/MIN STOP	SAMPLE VOLUME LITERS	#FIBERS/#FIELDS OPTICAL	ANALYST Sr	FIBER LEVEL f/cc	FI... LE... L...
RECON ENVIRONMENTAL CORPORATION 279299 APPLICATION #	BLDG #T-2290 OUTSIDE THE DECON DURING FLOOR TILE REMOVAL Rec'd 0/100 LRC	964	0825	1300	275	12.0	12.0	12.0	3300	0/100	Lance Cotton	ndl 0.0008	
RECON ENVIRONMENTAL CORPORATION 279300 APPLICATION #	BLDG #T-2290 OUTSIDE THE DECON DURING FLOOR TILE REMOVAL	3874	1005	1440	275	12.0	12.0	12.0	3300	3/100	Lance Cotton	ndl 0.0008	
3 (8)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

	#FIBERS #FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT #	BLANK TYPE LAB	BLANK TYPE FIELD	#FIBERS #FIELDS	
RECON ENVIRONMENTAL CORP 279301 APPLICATION #		✓			RYEM55451			0/100	BLANK

Temp: ____ °C Barometer: ____ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "X" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

Lance Cotton

(Analyst's Signature)

Reviewed ... 10/21/94

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: 640445

Location: FORT DEVENS, MA

Date Sampled: 10-19-94 Rotameter #:

Microscope Serial #:

Field Area (in sq):

Date Analyzed: 10/20/94 Lab Batch #: 15276

Analyst (print): Lanie Cotton

TEM 1000A ____ NIOSH 7400 ✓ PCM 239 ____

SAMPLE BLK CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID #	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	FIELDS OPTICAL	ANALYST Sr	FIBER LEVEL f/cc	FI LE L
RECON ENVIRONMENTAL CORPORATION 279297 APPLICATION #	PERSONAL AIR SAMPLE ON ~~EAST DEVENS~~ DERICK GROUND DURING FLOOR TILE REMOVAL AT BLDG # T-2290.	4SP-29	0830	1450	380	2.0	2.0	2.0	760.	37/100	Lanie Cotton	0.0239	
2 (?)	IN												
	OUT												
	IN												

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Field Te
No. 1077

5 of 6

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: OHM - Fort Devens
PROJECT LOCATION: Ayer, Fort Devens, MA
PROJ. NO.: 16208
PROJECT CONTACT: Kevin Mack
PROJECT TELEPHONE NO.: (508) 772-2275
CLIENT'S REPRESENTATIVE: Tom Best (USACE)
PROJECT MANAGER/SUPERVISOR: Bill Snow

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): NIOSH 7400

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	NIOSH 7400								REMARKS
1	279297	10-19	1515			NIOSH 7400 [illegible]	1	↓								
2	279298	10-19	1515			NIOSH 7400 BLANK	1									
3	279299	10-19	1515			NIOSH 7400 AREA	1									
4	729300	10-19	1515			NIOSH 7400 AREA	1									
5	729301	10-19	1515			NIOSH 7400 BLANK	1	↓								
6																
7																
8																
9																
10																

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-5	[signature]	Fed Ex Airbill 1944 570191	10-19-94	1800
2			Lance Colten	10/20	18:10 pm
3					
4					

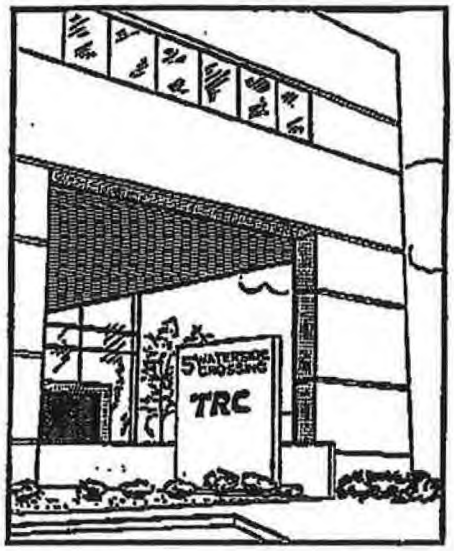
REMARKS: 24 hr TAT

SAMPLER'S SIGNATURE: [signature] Ken Deschenes

TRANSFER 2

OCT 24 '94 10:46AM TRC WINDSOR P.5

Fax Cover Sheet



TO: Kevin Mack

FAX NUMBER: 508-772-6792

Company: OHM Corp.

Address:

Number of Pages (including this one): 4

Date: 10/21/94 **Time:** 8:20

Charge No: 16208

Comments: Kevin -

Here are the PCM results. If you have any questions, please call me at (203) 298-6326.

Thanks,

From: Lance Cotta

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

No. 107705

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: OHM - FORT DEVENS
PROJECT LOCATION: Ayer, FORT DEVENS, MA
PROJ. NO.: 16208
PROJECT CONTACT: KEVIN MACK
PROJECT TELEPHONE NO: (508) 772-2275
CLIENT'S REPRESENTATIVE: Tom Best (USACE)
PROJECT MANAGER/SUPERVISOR: Bill Snow

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): NIOSH 7400

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	NIOSH 7400								REMARKS
1	279297	10-19	1515			NIOSH 7400 PERSONAL AIR	1	↓								
2	279298	10-19	1515			NIOSH 7400 BLANK	1	↓								
3	279299	10-19	1515			NIOSH 7400 AREA	1	↓								
4	729300	10-19	1515			NIOSH 7400 AREA	1	↓								
5	729301	10-19	1515			NIOSH 7400 BLANK	1	↓								
6																
7																
8																
9																
10																

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-5	[signature]	Fed Ex Airbill 1944 570191	10-19 94	1800
2					
3					
4					

REMARKS: 24 hr TAT

SAMPLER'S SIGNATURE: [signature] Ken DESLAURIERS

LAB COPY

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: 640445

Location: FORT DEVENS, MA

Date Sampled: 10-19-94 Rotameter #: ____

Microscope Serial #: ____

Field Area (mm sq): ____

Date Analyzed: ____ Lab Batch #: ____

Analyst (print): ____

TEM AHERA ____ NIOSH 7400 ✓ PACLM 235 ____

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	FIBERS/FIELDS OPTICAL	ANAL-YST Sr	FIBER LEVEL f/cc	FIBER LEVEL
RECON ENVIRONMENTAL CORPORATION 279297 APPLICATION #	PERSONAL AIR SAMPLE ON ~~EAST LANDERS~~ DERICK STOWELL DURING FLOOR TILE REMOVAL AT BLDG # T-2290.	T5P-29	0830	1450	380	2.0	2.0	2.0	760				
2 (7)	IN / OUT												
3 (8)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

SAMPLE BAR CODE NUMBER	FIBERS/FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT #	BLANK TYPE LAB	BLANK TYPE FIELD	FIBERS/FIELDS
RECON ENVIRONMENTAL CORPORATION 279298 APPLICATION #		✓			R4EM5545I			

BLANK

Temp: ____ °C Barometer: ____ mmHg

Samples collected and transported under chain-of-custody protocol and analyzed by the method checked above 'A' counting rules. Samples will ~~be maintained~~ under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

(Analyst's Signature)

3/1/20

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: W40445

Location: FORT DEVENS, MA

Date Sampled: 10-19-94 Rotameter #: ______

Microscope Serial #: ______

Field Area (mm sq): ______

Date Analyzed: ______ Lab Batch #: ______

Analyst (print): ______

TEM AHERA ______ NIOSH 7400 ✓ PACAM 235 ______

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID #	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	# FIBERS # FIELDS OPTICAL	ANAL-YST Sr	FIBER LEVEL f/cc	FIBER LEVE…
RECON ENVIRONMENTAL CORPORATION 279299 APPLICATION #	BLDG #T-2290 OUTSIDE THE DECON DURING FLOOR TILE REMOVAL	964	0825	1300	275	12.0	12.0	12.0	3300				
RECON ENVIRONMENTAL CORPORATION 279300 APPLICATION #	BLDG #T-2290 OUTSIDE THE DECON DURING FLOOR TILE REMOVAL	3874	1005	1440	275	12.0	12.0	12.0	3300				
3 (8)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

SAMPLE	#FIBERS #FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT	BLANK TYPE LAB	BLANK TYPE FIELD	#FIBERS #FIELDS	
RECON ENVIRONMENTAL CORP 279301 APPLICATION #		✓			R4EMS5451				BLANK

Temp: ______ °C Barometer: ______ mmHg

A. Samples collected and transported under chain-of-custody protocol and analyzed by the method checked above 'A' counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

(Analyst's Signature)

OCT 21 '94 03:04PM TRC COMPANIES P.3

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - Fort Devens

Project #: W40445

Location: Fort Devens, Massachusetts

Date Sampled: 10-20-94 Rotameter #: ______

Microscope Serial #: ______

Field Area (mm sq): ______

Date Analyzed: 10/21/94 Lab Batch #: 15277

Analyst (print): Lance Cotton

TEM AHERA ______ NIOSH 7400 ✓ PCM 735 ______

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	FIBERS FIELDS OPTICAL	ANALYST Sr	FIBER LEVEL f/cc	FIBER LEVEL LO
RECON APPLICATION # 268510	BLDG # T-2290 OUTSIDE DECON DURING GLOVE BAG REMOVAL	927	0815	1320	305	12.0	12.0	12.0	3660	15/100	Lance Cotton	<0.0007	
RECON APPLICATION # 268513	BLDG # T-2290 OUTSIDE DECON DURING GLOVE BAG REMOVAL	1631	1030	1450	260	12.0	12.0	12.0	3120	5/100	Lance Cotton	<0.0009	
3 (6)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

RECON APPLICATION #	FIBERS FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT#	BLANK TYPE LAB	BLANK TYPE FIELD	FIBERS FIELDS
268719		✓			8KM35451			1/100

BLANK

Temp: ______ °C Barometer: ______ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "A" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

[signature]
Relinquished under Chain-of-Custody Protocol

Lance Cotton
(Analyst's Signature)

OCT 21 '94 03:04PM TRC COMPANIES P.4

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: CW40445

Location: FORT DEVENS, MASSACHUSETTS

Date Sampled: 10-20-94 Rotameter #: ______

Microscope Serial #: ______

Field Area (mm sq): ______

Date Analyzed: 10/21/94 Lab Batch #: 15279

Analyst (print): Lance Cotton

TEM AHERA ______ NIOSH 7400 ✓ P&CAM 239 ______

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID #	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	#FIBERS/#FIELDS OPTICAL	ANALYST SR	FIBER LEVEL F/cc	FIBER LEVEL LO
RECON APPLICATION # 268511	PERSONAL AIR SAMPLE ON DERICK STOVER DURING GLOVE BAG REMOVAL Q.L.D. 38/100 LRC	4 3P-21	0810	1445	395	2.0	2.0	2.0	788.90	44.5/100	Lance Cotton	0.0223	
2 (7)	IN / OUT												
3 (8)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

RECON APPLICATION #	#FIBERS/#FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT#	BLANK TYPE LAB	BLANK TYPE FIELD	#FIBERS/#FIELDS	
268512		✓			R4EM55457			0/100	BLANK

Temp: ______ °C Barometer: ______ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "A" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

[signature]

Relinquished under Chain-of-Custody Protocol

Lance Cotton

(Analyst's Signature)

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

No. 107706

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

15279

PROJECT NAME	PROJECT LOCATION
OHM - FORT DEVENS	FORT DEVENS, MASSACHUSETTS

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
46208	KEVIN MACK	508-772-2275

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
TOM BAST USACE	BILL SHOW

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Weight 7400	REMARKS
1	268810	10-20	1500			AREA SAMPLE OUTSIDE T-2290		↓	
2	268511	10-20	1500			BOUNDARY SOIL INSIDE T-2294D		↓	
3	268512	10-20	1500			BLANK		↓	
4	268513	10-20	1500			AREA SAMPLE OUTSIDE T-2290		↓	
5	268719	10-20	1500			BLANK		↓	
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-5	[signature]	[signature]	10.20.94	1530
2	1-5	[signature]	Fed Ex Airbill 194452012 6	10.20.94	1530
3			Lance Cotton	10/21	10:10
4					

REMARKS

24HR TAT

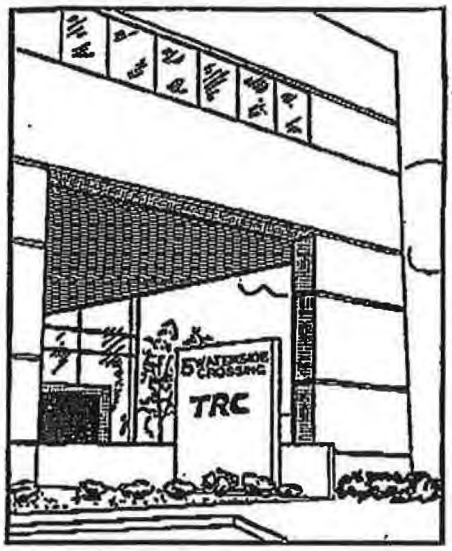
SAMPLER'S SIGNATURE [signature] KEVIN MACKINNON

LAB COPY

P.2

OCT 21 '94 03:03PM TRC COMPANIES

Fax Cover Sheet



TO: Kevin Mack

FAX NUMBER: 508-772-6792

Company: OHM Corp.

Address:

Number of Pages (including this one): 4

Date: 10/21/94 **Time:** 15:10

Charge No: 16208

Comments: Kevin -

Here are the PCM results. These results are from the samples I received today 10/21/94. Call me at (203) 298-6326 if you should have any questions.

From: Lance. Colton

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: 16208

Location: FORT DEVENS, MA

Date Sampled: 10-18-94 Rotameter #: ______

Microscope Serial #: ______

Field Area (mm sq): ______

Date Analyzed: 10/20/94 Lab Batch #: 15270

Analyst (print): Lance Cotton

TEM AHERA ______ NIOSH 7400 ✓ P&CAM 239 ______

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS.	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	FIBERS/FIELDS OPTICAL	ANALYST Sr	FIBER LEVEL f/cc	FI LE L
RECON ENVIRONMENTAL CORPORATION 279282 APPLICATION #	PERSONAL AIR SAMPLE ON GANT DERICK GROUND DURING REMOVAL IN # T-2280	ASP. 29	0830	1450	380	2.0	2.0	2.0	760	15.5/100	Lance Cotton	0.0100	
2 (7)	IN / OUT												
3 (8)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

	FIBERS FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT#	BLANK TYPE LAB	BLANK TYPE FIELD	FIBERS FIELDS	
RECON ENVIRONMENTAL CORP. 279283 APPLICATION #	0/100	✓		MCE	R4EM 5345				BLANK

Temp: ______ °C Barometer: ______ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "A" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

______ Relinquished under Chain-of-Custody Protocol

Lance Cotton (Analyst's Signature)

Date:

RECON ENVIRONMENTAL CORP.
ASBESTOS LABORATORY CHAIN-OF-CUSTODY FORM

LOG IN# 15270 DATE RECEIVED 10/18/94

SEQUENCE 279284 - 279296

BRANCH Wilmington MA ANALYSIS ONLY (NOT FOR REPORT) _____

CLIENT OHM PROJECT # 116208

ADDRESS _____ SAMPLES COLLECTED BY Ken Desrosiers

_____ DATE(S) COLLECTED 10-18-94

PHONE _____ CONDITION RECEIVED _____

CONTACT Kevin Mack TURN AROUND: 24 HR. TURNAROUND RUSH___ 3 DAY___ 7 DAY___

_____ DATE FAXED RESULTS REQUIRED _____

SAMPLE TYPE PCM DATE TYPED RESULTS REQUIRED _____

	Printed Name	Signature	Affiliation	Date	Samples	Task
Remitted	Ken Desrosiers		RECON	10-18-94	3 air	REMIT
Received						
Remitted						
Received						
Remitted						
Received						
Remitted						

ANALYSIS COMPLETED 10/20/94 ANALYST Lance Cotton

REPORT ISSUED _____ DISPOSAL DATE _____

CHAIN OF CUSTODY SEAL # _____ MANIFEST RECORD _____

NOTES: AREA SAMPLES AT FORT DEVENS, MA

F:\ADMINDAT\BOILERPLICOC

9/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: 16208

Location: FORT DEVENS, MA

Date Sampled: 10-18-94 Rotameter #:

Microscope Serial #:

Field Area (sq):

Date Analyzed: 10/20/94 Lab Batch #: 15270

Analyst (print): Lance Cotton

TEM 3EDRA ____ NIOSH 7400 ✓ PCM 239 ____

SAMPLE BIN CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CORE PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MIN	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	FIBERS FIELDS OPT	FIBERS FIELDS CAL	ANAL-YST Sr	FIBER LEVEL f/cc	F LE
RECON ENVIRONMENTAL CORPORATION 279284 APPLICATION #	BLDG # T-2290 OUTSIDE THE CONTAINMENT DURING REMOVAL	964	0900	1350	290	12.0	12.0	11.0	3480	10/100		Lance Cotton	0.004	
RECON ENVIRONMENTAL CORP. 279295 APPLICATION #	IN BLDG # T-2290 OUTSIDE THE CONTAINMENT DURING REMOVAL	3824	1100	1450	230	12.0	13.0	12.0	2760	10/100		Lance Cotton	0.018	
	OUT Rec'd 4/113 URC													
3 (1)	IN													
	OUT													
4 (9)	IN													
	OUT													
5 (10)	IN													
	OUT													

RECON ENVIRONMENTAL CORP 279296 APPLICATION # Field Blank	FIBERS FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT	BLANK TYPE LAB	BLANK TYPE FIELD	FIBERS FIELDS
		✓		MCE	R4EMSSYS1			0/100

BLANK

Temp: ____ C Barometer: ____ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "A" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

Lance Cotton 10/20/94

OCT 20 '94 07:30AM TRC COMPANIES

RECON ENVIRONMENTAL CORP.
ASBESTOS LABORATORY CHAIN-OF-CUSTODY FORM

LOG IN# 15270 DATE RECEIVED 10/18/94

SEQUENCE 27928L - 27928J

BRANCH [illegible] ANALYSIS ONLY (NOT FOR REPORT) _____

CLIENT [illegible] PROJECT # 1020.8

ADDRESS _____ SAMPLES COLLECTED BY Ken Desrosiers

_____ DATE(S) COLLECTED 10-18-94

PHONE _____ CONDITION RECEIVED _____

CONTACT Kevin Mack TURN AROUND: 24 HR. TURNAROUND RUSH___ 3 DAY___ 7 DAY___

_____ DATE FAXED RESULTS REQUIRED _____

SAMPLE TYPE Tape DATE TYPED RESULTS REQUIRED _____

	Printed Name	Signature	Affiliation	Date	Samples	Task
Remitted	Ken Desrosiers		RECON	10-18-94	2 Tape	RENIS
Received						
Remitted						
Received						
Remitted						
Received						
Remitted						

ANALYSIS COMPLETED 10/20/94 ANALYST Lance Cotton

REPORT ISSUED _____ DISPOSAL DATE _____

CHAIN OF CUSTODY SEAL # _____ MANIFEST RECORD _____

NOTES: Personal Samples collected at Fort Devens, MA.

F:\ADMINDAT\BOILERPL\COC

P.4

OCT 20 '94 07:30AM TRC COMPANIES

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 06/89

No. 107704

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

15270

PROJECT NAME: Fort Devens	PROJECT LOCATION: Fort Devens, Massachusetts		
PROJ. NO.: 16208	PROJECT CONTACT: Kevin MACK	PROJECT TELEPHONE NO.: 508-772-2275	
CLIENT'S REPRESENTATIVE: Bill Best (USACE)	PROJECT MANAGER/SUPERVISOR: Bill Snow		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	279284	10-18	1330			PCM AIR	1	✓	24 Hr TAT
2	279285	10-18	1410			PCM AIR	1	✓	
3	279246	10-18	1510			BLANK	1	✓	
4	279282	10-18	1450			PCM AIR	1	✓	
5	279283	10-18	1450			BLANK	1	✓	
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-5	[signature]	Fed Ex Airbill 1944570202	10/18	3:45
2			Lanee Cotton	10/19	14:45
3					
4					

REMARKS

Lanee Cotton

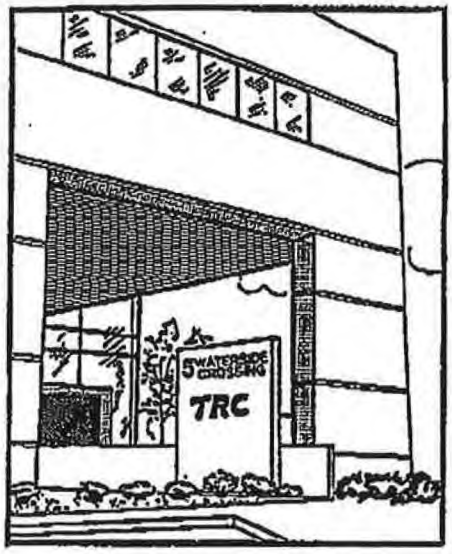
SAMPLER'S SIGNATURE: [signature]

LAB COPY

P.2

OCT 20 '94 07:29AM TRC COMPANIES

Fax Cover Sheet



TO: Kevin Mack

FAX NUMBER: 508-772-6792

Company: OHM CORP.

Address:

Number of Pages (including this one): 6

Date: 10/20/94 **Time:** 7:40 AM

Charge No: 16208

Comments: Kevin -

Here are more results.

Lance Cotton

From:

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVENS

Project #: W40445

Location: FORT DEVENS, MASSACHUSETTS

Date Sampled: 10-21-94 Rotameter #: ______

Microscope Serial #: ______

Field Area (mm sq): ______

Date Analyzed: 10/24/94 Lab Batch #: 15287

Analyst (print): Lance Cotton

TEM AHERA ______ NIOSH 7400 ✓ PCLM 239 ______

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	# FIBERS / # FIELDS OPTICAL	ANALYST SI	FIBER LEVEL F/cc	FIB LEV LC
RECON APPLICATION # 268518	IN BLDG #T-2290, FINAL AIR CLEARANCE; OUT	3874	0900	1120	140	12.0	12.0	12.0	1680	6/100	Lance Cotton	0.0018	
RECON APPLICATION # 268519	BLDG #T-2290, IN FINAL AIR CLEARANCE; OUT Orig 5.5/100 LC	964	0900	1120	140	12.0	12.0	12.0	1680	4/100	Lance Cotton	ndc 0.0016	
RECON APPLICATION # 268700	SA-31 OUTSIDE THE PIT DURING GLOVE BAG REMOVAL	1637	1000	1215	135	12.0	12.0	12.0	1620	2.5/100	Lance Cotton	ndc 0.0017	
RECON APPLICATION # 268701	SA-31 INSIDE THE PIT DURING GLOVE BAG REMOVAL CLEARANCE	932	1000	1215	135	12.0	12.0	12.0	1620	14.5/100	Lance Cotton	0.0044	
5 (10)	IN; OUT												

RECON APPLICATION #	#FIBERS / #FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT	BLANK TYPE LAB	BLANK TYPE FIELD	#FIBERS / #FIELDS	
268702					RHEMS5451			0/100	BLANK

Temp: ______ C Barometer: ______ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "A" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

[signature]

Relinquished under Chain-of-Custody Protocol

Lance Cotton

(Analyst's Signature)

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Project Name: OHM - FORT DEVONS

Project #: W40445

Location: FORT DEVONS, MASSACHUSETTS

Date Sampled: 10-21-94 Rotameter #: ____

Microscope Serial #: ____

Field Area (mm sq): ____

Date Analyzed: 10/24/94 Lab Batch #: 15287

Analyst (print): Lance Cotton

TEM AHERA ____ NIOSH 7400 ✓ PCLM 235 ____

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITER/MIN START	ROTAMETER LITER/MIN STOP	SAMPLE VOLUME LITERS	# FIBERS / # FIELDS (OPTICAL)	ANALYST	FIBER LEVEL f/cc	FIB LEV LO
RECON APPLICATION # 268518	IN BLDG #T-2290, FINAL AIR CLEARANCE / OUT	674	9:00	11:20	140	12.0	12.0	12.0	1680	6/100	Lance Cotton	0.0018	
RECON APPLICATION # 268519	BLDG #T-2290, IN FINAL AIR CLEARANCE / OUT Ocld 5.5/100	61	9:00	11:20	140	12.0	12.0	12.0	1680	4/100	Lance Cotton	nd<0.0016	
RECON APPLICATION # 268700	SA-31 OUTSIDE THE PIT DURING GLOVE BAG REMOVAL	637	10:00	12:15	135	12.0	12.0	12.0	1620	2.5/100	Lance Cotton	nd<0.0017	
RECON APPLICATION # 268701	SA-31 INSIDE THE PIT DURING GLOVE BAG REMOVAL - CLEARANCE	632	10:00	12:15	135	12.0	12.0	12.0	1620	14.5/100	Lance Cotton	0.0044	
5 (10)	IN / OUT												

RECON APPLICATION # 268702	# FIBERS / # FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT #	BLANK TYPE LAB	BLANK TYPE FIELD	# FIBERS / # FIELDS	BLANK
					R4EM5545			0/100	

Temp: ____ °C Barometer: ____ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above 'A' counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

[signature] Relinquished under Chain-of-Custody Protocol

Lance Cotton (Analyst's Signature)

3/1/90

CERTIFIED ENGINEERING & TESTING COMPANY, INC.

Airborne Fibrous Particulate Monitoring and Analysis Data Form

Client: OHM

Microscope Serial #:

Project Name: OHM - Fort Devens

Field Area (mm sq):

Project #: W40445

Date Analyzed: 10/24/94 Lab Batch #: 15207

Location: Fort Devens Massachusetts

Analyst (print): Lance Cotton

Date Sampled: 10-21-94 Rotameter #:

TEM AHERA ___ NIOSH 7400 ✓ P&CAM 239 ___

SAMPLE BAR CODE NUMBER	SAMPLE LOCATION/DESCRIPTION (Circle IN or OUT of Abatement Area)	CERT PUMP ID	START TIME HOUR	STOP TIME HOUR	RUN TIME MINS	FLOW RATE L/M	ROTAMETER LITRE/MIN START	ROTAMETER LITRE/MIN STOP	SAMPLE VOLUME LITERS	#FIBERS/#FIELDS OPTICAL	ANAL-YST BY	FIBER LEVEL f/cc	FIBER LEVEL LOD
RECON APPLICATION # 268516	Personal air sample on Gart Sanders during glove bag removal	CSP-27	0735	1100	205 ue	2.0	2.0	2.0	410 ue	14/100	Lance Cotton	0.0167	
2 (7)	IN / OUT												
3 (8)	IN / OUT												
4 (9)	IN / OUT												
5 (10)	IN / OUT												

RECON APPLICATION # 268517

#FIBERS/#FIELDS	BLANK TYPE LAB	BLANK TYPE FIELD	FILTER TYPE	LOT	BLANK TYPE LAB	BLANK TYPE FIELD	#FIBERS/#FIELDS
				R4EM55451			1/108

BLANK

Temp: ___ C Barometer: ___ mmHg

All samples collected and transported under chain-of-custody protocol and analyzed by the method checked above "A" counting rules. Samples will be maintained under Chain-of-Custody Protocol for 60 days after analysis unless instructed otherwise.

Relinquished under Chain-of-Custody Protocol

Lance Cotton
(Analyst's Signature)

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 00.-
Field Technical Services
Rev. 08/89

No. 107685

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

15287

PROJECT NAME	PROJECT LOCATION
Fort DEVENS	FORT DEVENS, MASSACHUSETTS
PROJ. NO. / PROJECT CONTACT: Kevin Mahr	PROJECT TELEPHONE NO.
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) — NIOSH 7400	REMARKS
1	268516	10-21				PERSONAL air SAMPLE			
2	268517	10-21				BLANK			
3	268518	10-21				FINAL air SAMPLE, BLOCK T-1290			
4	268519	10-21				FINAL air SAMPLE, BLOCK T-1290			
5	268700	10-21				AREA SAMPLE AT SA-31 OUTSIDE PIT			
6	268701	10-21				AREA SAMPLE AT SA-31 INSIDE OF PIT			
7	268702	10-21				BLANK			
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7	10-21-94		10.21 94	1300	
2	1-7		Fed Ex Airbill 194457016 5	10.21 94	1530	
3			Lance Cotton	10/24	9:50 AM	
4						

SAMPLER'S SIGNATURE: Ken DESHUISSEAU

LAB COPY

Appendix B
Asbestos Transportation and Disposal Documentation

Partyka Resource Management

Chicopee Sanitary Landfill Facility

SPECIAL WASTE LOG

Date: Nov. 14, 1994 **Time:** _____ **Ticket Number:** _____

1. U.S. Army Corp of Engineers
Generator's Name
2613 Lake George St., Fort Devens
Generator's Address
Ayer, MA 01020
Generator's Phone

2. OHM Corporation
Operator's Name
88C Elm St.
Operator's Address
Hopkington, MA 01748
Operator's Phone (508) 435-9561

3. **Waste Disposal Site Name, Mailing Address, Physical Site Name and Location, and Telephone #:**

Connecticut Valley Sanitary Waste Disposal, Inc., 645 Shawinigan Drive, Chicopee, MA 01020

Chicopee Sanitary Landfill Facility, New Lombard Road, Chicopee, MA - (413) -785-1581

4. **Name and Address of Responsible Agency:**

Regional Asbestos Coordinator, US EPA, Region I, JFK Federal Building, Boston, MA 02203 or

DEP, Western Region, State House West, 436 Dwight Street, Springfield, MA 01103

5. **Description of Waste Disposed:** Non-Friable Asbestos

6. **# and Type of Containers:** 1 cu. yd box 7. **Total Quantity (yds):** 7.

8. **Special Handling Instruction and Other Additional Information** None

9. Michael P Doherty Michael P Doherty 11.14.94
Operator's Certification (Printed Name and Title) (Signature) (Date)

(I certify above that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled; and, are in all respects in proper condition for transport by highway and for disposal according to applicable international and governmental regulations)

10. Fleet Environmental Services, Inc
Transporter 1 (Name, Title, Address & Tele. #)
P.O. Box 939
Assonet, MA 02702

11. _____
Transporter 2 (Name, Title, Address & Tele. #)

12. **Discrepancies:** _____

13. _____ _____ _____
Disposal Certification (Print Name and Title) (Signature) (Date)

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. NB 0708

CARRIER: FLEET ENVIRONMENTAL SERVICES, INC. SCAC

Carrier's No.

Date 11/14/94

TO: Consignee / Street / Destination: Partyka Resource Management, 645 Shawinigan Drive, Chicopee, MA 01020 Zip

FROM: Shipper / Street / Origin: U.S. Army Corp. of Engineers, Fort Devens, 2613 Lake George St., ~~Fort Devens, MA~~ Zip 01433

Route:

Vehicle Number

No. Shipping Units	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
7cy	Non-Friable Asbestos	NONE				

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if the shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.
The carrier shall not make delivery of the shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

FREIGHT CHARGES
☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

SHIPPER: U.S. Army Corp of Engineers

PER:

DATE: 11-14-94

CARRIER:

PER:

DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: (800) 537-1540

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

9-BLS-A3
(Rev. 9/88)

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK,
FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. N° 0708

CARRIER: FLEET ENVIRONMENTAL SERVICES, INC. SCAC

Carrier's No. Date 11/14/94

TO: Consignee / Street / Destination: Partyka Resource Management, 645 Shawinigan Drive, Chicopee, MA 01020 Zip

FROM: Shipper / Street / Origin: U.S. Army Corp. of Engineers, Fort Devens, 2613 Lake George St., ~~Fort Devens, MA~~ Zip 01433

Route:

Vehicle Number

No. Shipping Units	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
7cy	Non-Friable Asbestos	NONE		2800	P	

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE: Prepaid ☐ Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

FREIGHT CHARGES ☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per [signature]

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☒ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

SHIPPER: U.S. Army Corps of Engineers

PER:

DATE: 11-14-94

CARRIER: Fleet Environmental Services

PER: [signature]

DATE: 11.14.94

EMERGENCY RESPONSE TELEPHONE NUMBER: (800) 537-1540

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK,
FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

FLE. ENVIRONMENTAL SERVICES, INC.
RIDGE HILL ROAD, P.O. BOX 93, ASSONET, MA 02702 TEL. (508) 644-3093

CUSTOMER: OHM
MAILING ADDRESS: 88C Elm St.
Hopkinton Ma. ZIP: 01748
CONTACT PERSON: Kelly Carey
TEL. #: (508) 435-9561 P.O.#: 0210229-000

FES SALESPERSON: Costello
Start Date 11/14/94
Mon/Tues/Wed/Thurs/Fri/Sat
Completion Date 11/14/94
Weather ______ Temp ______

JOB SITE: Fort Devens 2613 Lake George
ADDRESS: Ayer, Ma. ZIP: 01433
SITE CONTACT PERSON: Kevin Mack
SITE TEL. #: (508) 772-2275
EPA #:
DIG SAFE #: ______ START DATE: ______

BILL TO:
ADDRESS:
ZIP:
TEL. #:
FAX #:
CONTACT PERSON:

ON SITE TIME:

SCOPE OF WORK: Pick-Up 7C yd Containers
take to Ptyka
A 3500 lbs.

Left FES Yard 5:20 a.m./p.m. Departed Site ______ a.m./p.m.
Arrived @ Site 6:40 a.m./p.m. Return to Yard ______ a.m./p.m.

LABORER	REG.	O.T.
Mike D	7	

EQUIPMENT	HOURS
Mack Truck	

SUPPLIES - QUANTITY / SUPPLIES - QUANTITY / SUPPLIES - QUANTITY

Speedi Dry.......... Poly.......... Dry Ice..........
Absorb.Pads.......... Boots.......... Tyveks..........
Boom, Absorb.......... Gloves.......... Drums..........
Boom, Contain.......... Misc.......... Misc..........

SUBCONTRACTOR: ______ HRS. ______ SUBCONTRACTOR: ______ HRS. ______

PRODUCT - QTY	WASTE DESCRIPTION	WASTE CODE/MANIFEST #	T.S.D.F.
Bulk Liquid:			
Drum Liquid:			
Bulk Solid:			
Drum Solid:			

FACILITY TIME - Arrived: ______ Departed: ______
Site Left Clean & Satifactory ? YES: ✓ NO: ______
Job Completed ? YES: ✓ NO: ______
Customer Signature:
X Kevin Mack Date 11/14/94
FES Representative:
X [signature]

CONTRACT: ______ T&M: ______ FIXED PRICING: ______
QUOTED PRICE: ______ OFFICE APPROVAL BY: ______

WHITE - Work Crew YELLOW - Customer Copy PINK - Billing

Partyka
Resource
Management

645 Shawinigan Drive
Chicopee, MA 01020
(413) 785-1581

Bill

Dear Customer:

In compliance with the notification requirements of Federal and state regulations, find enclosed a completed asbestos disposal and documentation form acknowledging that the listed asbestos wastes have been disposed of at our facility.

The enclosed duplicate copy of the form(s) indicate the date of disposal, type of material and quantity. If you have any questions or comments, please do not hesitate to contact us. Thank you for your business.

Very truly yours,

A. Ronald Wesolowski

A. Ronald Wesolowski
Office Manager

ARW/jk

Enc.

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

THIS MEMORANDUM

is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. 0708

CARRIER: FLEET ENVIRONMENTAL SERVICES, INC. SCAC

Carrier's No.

Date 11/14/94

TO: Consignee Partyka Resource Management
Street 645 Shawinigan Drive
Destination Chicopee, MA 01000 Zip

FROM: Shipper U.S. Army Corp. of Engineers
Street Fort Devens
Origin 2613 Lake George St.
Fort Devens, MA Zip 01433

Route:

Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
7cy		Non-Friable Asbestos	NONE		2800	P	
		Trap Ventilation					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

FREIGHT CHARGES
☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVER SIGNATURE:

SHIPPER: U.S. Army Corp of Engineers
PER:
DATE: 11.14.94

CARRIER: Fleet Environmental Services
PER:
DATE: 11.14.94

EMERGENCY RESPONSE TELEPHONE NUMBER: (800) 537-9540

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK,
FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

9-BLS-A3
(Rev. 9/88)

Appendix C
Demolition Debris Transportation and Disposal Documentation

PRINTED ON RECYCLED PAPER USING SOYBEAN INK SOY INK

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Page 1 of 1

Wyche Management of Central NH
(Name of carrier) (SCAC)

Date 10/26/94

On Collect on Delivery shipments the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: Consignee P.R.I., INC.
Fitchburg/Westminster Landfill

Street RT 31 791 Boston Post Road
MAGLBORO 01752

City Westminster State MA Zip Code 01473

FROM: Shipper USAHE

Street 8613 Lake George St

City Ft Devens State MA Zip Code 01432

24 hr. Emergency Contact Tel. No. _____

Route ACE-E-63RE / SA-56

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGE (For Carr Use Only
1 - Boyd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ _____ per _____

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.
_____ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
_____ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charge are to b collec

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER US Army Corp of Engineers

PER Timothy J Power

CARRIER Edward Mori

PER

DATE

Permanent post-office address of shipper.

436355 OHM

DATE _____

CUSTOMER'S NAME Waste Management #401

ADDRESS _____

COMMODITY Demo

CARRIER _____

TARE - DRIVER ON _____ OFF _____ U

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. 2111.

WINDOW STICKER _____

MUN. COLLECTION - NO. _____

Weighed on a Fairbanks Scale

P.R.T.R. INC.

791 BOSTON POST ROAD
MARLBOROUGH, MA 01752
TEL. 481-0336

10-27-94 6:53
55980 lb IN

LOOP # 4

10-27-94 7:04
55980 lb GR
34340 lb TA
21640 lb NT

305149-DL

PRINTED ON RECYCLED PAPER USING SOYBEAN INK — PRINTED WITH SOY INK

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Page _____ of _____

Waste Management of Central MA
(Name of carrier) (SCAC)

Date 10/28/94

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee PRTC INC

Street 791 Boston Post Road

City Marlborough State MA Zip Code 01752

FROM:

Street 2613 Lake George St

City Ft Devens State MA Zip Code 01432

24 hr. Emergency Contact Tel. No. _____

Route KMFF-63BE

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

_____ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

COD FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT TO BE PAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER 45 Army Corp of Engineers

PER Timothy J. Coleman

CARRIER Edward Mori

PER _____

DATE _____

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-58

PRINTED ON RECYCLED PAPER USING SOYBEAN INK — PRINTED WITH SOY INK

437170

DATE _____

CUSTOMER'S NAME _____

ADDRESS _____

COMMODITY _____

CARRIER _____

TARE DRIVER ON _____ OFF _____

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

MUN. COLLECTION - NO. _____

Weighed on a Fairbanks Scale

P.R.T.R. INC.

791 BOSTON POST ROAD

MARLBOROUGH, MA 01752

TEL. 481-0336

10-28-94 13:55

LOOP #22

10-28-94 14:14

64920 lb GR

31600 lb TA

33240 lb NT

)-DL PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

'ENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Date 10/25/94

_____ of _____ Waste Management of Central MA (Name of carrier) (SCAC)

ct on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1)

gnee PRTR INC

791 Boston Post Road

Marlborough State MA Zip Code 01752

FROM:
Shipper USACE

Street 2613 Lake George St

City Ft Devens State MA Zip Code 01432

24 hr. Emergency Contact Tel. No. _____

AREE-63BE

Vehicle Number

o.of Units ontainer Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
30yd 1 66		General Construction Debris.				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

— Where the rate is dependent on value, shippers are ed to state specifically in writing the agreed or declared of the property. agreed or declared value of the property is hereby ically stated by the shipper to be not exceeding

_____ per _____

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

_____ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract) as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

PER "Army Corp of Engineers"

Timothy J. Moran

CARRIER Edward Morris

PER _____

DATE _____

1

ient post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-5808

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

437074

DATE _____

CUSTOMER'S NAME _____

ADDRESS _____

COMMODITY _____

CARRIER _____

TARE - DRIVER ON _____ OFF _____

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

MUN. COLLECTION - NO. _____

Weighed on a Fairbanks Scale

P.R.T.R. INC.

791 BOSTON POST ROAD

MARLBOROUGH, MA 01752

TEL. 481-0336

10-28-94 9:38

55900 lb IN

LOOP #18

10-28-94 9:52

55900 lb GRT

34240 lb TAR

21660 lb NET

305149-DL

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ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Page _____ of _____

Waste Management of Central MA
(Name of carrier) (SCAC)

Date 10/27/94

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee P.R.T.C INC

Street 791 Boston Post Road

City Marlborough State MA Zip Code 01752

FROM:
Shipper USACE

Street 2613 Lake George St

City Ft Devens State MA Zip Code 01432

24 hr. Emergency Contact Tel. No. _____

Route ARER-G3BE

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependant on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

_____ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER 45 Army Corps of Engineers

PER Timothy J. Coleman

CARRIER Edward Morris

PER _____

DATE _____

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-58

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437018 OHM

P.R.T.R. INC.

791 BOSTON POST ROAD
MARLBOROUGH, MA 01752
TEL. 481-0336

DATE _____

CUSTOMER'S NAME WASTE C/O I

ADDRESS _____

COMMODITY DEBRIS

CARRIER _____

TARE - DRIVER ON _____ OFF _____ U

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

10-27-94 15:37
53600 lb IN
LOOP #20

10-27-94 16:00
53600 lb GR
32980 lb TA
20620 lb NT

305149-DL

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ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. ____

Carrier No. ____

Page ____ of ____

Waste Management of Central MA (Name of carrier) (SCAC)

Date 10/27/94

TO:
Consignee PRTR INC
Street 791 Boston Post Road
City Marlborough State MA Zip Code 01752

FROM:
Shipper USACE
Street 2613 Lake George St
City Ft Devens State MA Zip Code 01432
24 hr. Emergency Contact Tel. No. ____

Route ARRK-63BE

Vehicle Number ____

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ ____ per ____

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

____ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

____ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked
Check box if charges are to be collect ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER US Army Corp of Engineer
PER Timothy J [signature]

CARRIER [signature]
PER
DATE

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-58

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436978 OHM

P.R.T.R. INC.

791 BOSTON POST ROAD
MARLBOROUGH, MA 01752
TEL. 481-0336

DATE _____

CUSTOMER'S NAME _____

ADDRESS _____

COMMODITY _____

CARRIER _____

TARE – DRIVER ON _____ OFF _____

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

MUN. COLLECTION – NO. _____

Weighed on a Fairbanks Scale

~~10-27-94 13:21~~
~~64840 lb IN~~
LOOP # 8

10-27-94 13:52
64840 lb GR
34120 lb TA
30720 lb NT

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ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Page _____ of _____

Waste Management of Central MA
(Name of carrier) (SCAC)

Date 10/31/94

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee PRTR INC

Street 791 Boston Post Road

City Marlborough State MA Zip Code 01752

FROM:
Shipper USACE

Street 2013 Lake George St

City ft Devens State MA Zip Code 01432

24 hr. Emergency Contact Tel. No. _____

Route AREE-B3-BE, AREE-64A, ~~SHIP~~

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO:
ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

_____ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked
Check box if charges are to be collect ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER David C Gutta FOR T. COLEMAN

CARRIER _____

PER _____

PER _____

DATE _____

Permanent post-office address of shipper.

PRINTED ON RECYCLED PAPER USING SOYBEAN INK | PRINTED WITH SOY INK

437735

DATE _____

CUSTOMER'S NAME White 1126

ADDRESS _____

COMMODITY Demo

CARRIER _____

TARE DRIVER ON _____ OFF _____

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

MUN. COLLECTION – NO. _____

Weighed on a Fairbanks Scale

P.R.T.R. INC.

791 BOSTON POST ROAD
MARLBOROUGH, MA 01752
TEL. 481-0336

11-01-94 15:01
57400 lb IN
LOOP #25

11-01-94 15:18
57400 lb GR
34060 lb TA
23340 lb NT

305149-DL

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ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. ______

Carrier No. ______

Page ____ of ____

Waste Management of Central MA (Name of carrier) (SCAC)

Date 10/31/94

TO:	FROM
Consignee PRTR INC	Shipper USACE
Street 791 Boston Post Road	Street 2613 Lake George St
City Marlborough State MA Zip Code 01752	City Ft Devens State MA Zip Code 01432
	24 hr. Emergency Contact Tel. No.

Route AREE-63BE

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ ______ per ______

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

______ Signature

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

______ (Signature of Consignor)

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked
Check box if charges are to be collect ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER [signature] FOR T. [illegible]	CARRIER [signature]
PER	PER
	DATE

Permanent post-office address of shipper

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-5

PRINTED ON RECYCLED PAPER USING SOYBEAN INK · PRINTED WITH SOY INK

437591

DATE _____

CUSTOMER'S NAME L Waste 1126

ADDRESS _____

COMMODITY D&D

CARRIER _____

TARE DRIVER ON _____ OFF _____

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

MUN. COLLECTION NO. _____

Weighed on a Fairbanks Scale

P.R.T.R. INC.

791 BOSTON POST ROAD

MARLBOROUGH, MA 01752

TEL. 481-0336

11-01-94 7:58

~~57460 lb GR~~

LOOP #12

11-01-94 8:23

57460 lb GR

34300 lb TA

23160 lb NT

305149-DL

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ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. ______

Carrier No. ______

Page ____ of ____

Waste Management of Central MA
(Name of carrier) (SCAC)

Date 10/25/94

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee PRTR INC
Street 791 Boston Post Road
City Marlborough State MA Zip Code 01752

FROM:
Shipper
Street 2613 Lake George St
City Ft Devens State MA Zip Code 01432

24 hr. Emergency Contact Tel. No. ______

Route AKEE-63BE

Vehicle Number ______

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ ______ per ______

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

______ Signature

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

______ (Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER US Army Corps of Engineers
PER Timothy J Corcoran

CARRIER Edward Mari
PER
DATE

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-5I

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437215

P.R.T.R. INC.

791 BOSTON POST ROAD
MARLBOROUGH, MA 01752
TEL. 481-0336

DATE _____

CUSTOMER'S NAME [illegible] (MS)

ADDRESS _____

COMMODITY [illegible]

CARRIER _____

TARE - DRIVER ON _____ OFF _____

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. [illegible]

WINDOW STICKER _____

MUN. COLLECTION - NO. _____

Weighed on a Fairbanks Scale

10-28-94 15:55
54760 lb IN
LOOP #10

10-28-94 16:08
54760 lb GR
33660 lb TA
21100 lb NT

305149-DL

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ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Page _____ of _____

Wiske Management of Central MA
(Name of carrier) (SCAC)

Date 10/26/94

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1

TO:
Consignee Fitchburg/Westminster Landfill
Street RT #31
City Westminster State MA Zip Code 01437

FROM:
Shipper USACE
Street 2613 Lake George St
City Ft Devens State MA Zip Code 01432
24 hr. Emergency Contact Tel. No. _____

Route MMEE-63BE

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1-30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ _____ per _____

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.
_____ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
_____ (Signature of Consignor)

COD FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER US ARMY CORPS of ENGINEERS
PER Timothy J Rheaume

CARRIER Edward Morin
PER _____
DATE _____

Permanent post-office address of shipper.

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436039 O.M

P.R.T.R. INC.

791 BOSTON POST ROAD
MARLBOROUGH, MA 01752
TEL. 481-0336

DATE _____

CUSTOMER'S NAME _____

ADDRESS _____

COMMODITY _____

CARRIER _____

TARE DRIVER ON _____ OFF _____

NET @ _____ PER LB PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

RUN COLLECTION NO. _____

Weighed on a Fairbanks Scale

10-27-94 11:23
47040 lb IN
LOOP #29

10-27-94 11:39
47040 lb GR
33080 lb TA
13960 lb NT

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL—NOT NEGOTIABLE

Shipper No. ______

Carrier No. ______

Page ____ of ____

Waste Management of Central MA (Name of carrier) (SCAC)

Date 10/26/94

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1

TO:
Consignee Fitchburg/Westminster Landfill
Street RT 31
City Westminster State MA Zip Code 01473

FROM:
Shipper USACE
Street 2613 Lake George St
City Ft Devens State MA Zip Code 01432
24 hr. Emergency Contact Tel. No. ______

Route AHEE-63BE

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1-30yd Rolloff		General Construction Debris				

PLACARDS TENDERED: YES ☐ NO ☐

REMIT C.O.D. TO: ADDRESS

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ ______ per ______

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ■ Rail ■ Highway ■ Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.
______ Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
______ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER US ARMY CORP OF ENGINEERS
PER Timothy J. Polan

CARRIER Edward Mori
PER
DATE

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-580

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436811 0 #49

P.R.T.R. INC.

791 BOSTON POST ROAD
MARLBOROUGH, MA 01752
TEL. 481-0336

DATE _____

CUSTOMER'S NAME _____ 4101

ADDRESS _____

COMMODITY _____

CARRIER _____

TARE - DRIVER ON _____ OFF _____

NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

DUMPSTER NO. _____

WINDOW STICKER _____

MUN. COLLECTION - NO. _____

Weighed on a Fairbanks Scale

10-26-94 14:11
46700 lb ~~IN~~
LOOP #11

10-26-94 14:43
46700 lb GR
33800 lb TA
12900 lb NT

Appendix D

On-site Laboratory Documentation

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 2

Date: 12-02-94 Site Name: AREE 63BE

Weather: Sunny & Mild Samplers: MGQ / MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt A	Ref. Pt G	Sample Description	# of Bottles
SDAR63BEW86	G	1115	11'	57'4"	52'	Brown Clayey Sand	1x40ml Vial
W87	↓	1120	11'	60' 3"	65'	Gray: Brown clayey Sand	↓
W88	↓	1125	11'	65',3" ~~76~~	76'9"	Brown Clayey Sand	↓
W80	↓	1133	9'	58'8"	44'9"	Brown Clayey Sand	↓
W81	↓	1136	9'	63'5"	63'5"	Gray Clayey Sand	↓
W82	↓	1138	8'6"	72'11"	88'10"	Gray Sand	↓
W83	↓	1142	8'	57'8"	40'5"	moist gray sand	↓
W84	↓	1145	7'	65'3"	54'6"	gray clayey sand	↓
W85	↓	1152	7'	65'10"	69'5"	gray clayey sand	↓

Ref. Pt. A: Utility pole

Ref. Pt. G: corner post of chain link fence

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # ____ USACE- coc # ____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other ____

Relinquished by(dd/tt): [signature] 12-2-94 1230 Received by (dd/tt): [signature] 12-2-94 1230

Relinquished by(dd/tt): ____ Received by (dd/tt): ____

Site: Ft. Devens, MA Location No.: AREE 63BE Date: 12.2.94 GC Analyst: TPH Analyst: MW

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SB AR63BE																	
		W73	W80	W81	W82	W83	W84	W85	W86	W87	W88									
TRPH	500 ppm	1585	12 J	794	3690	2790	6187	807	107	335	6 J									
	500 ppm																			
	500 ppm																			

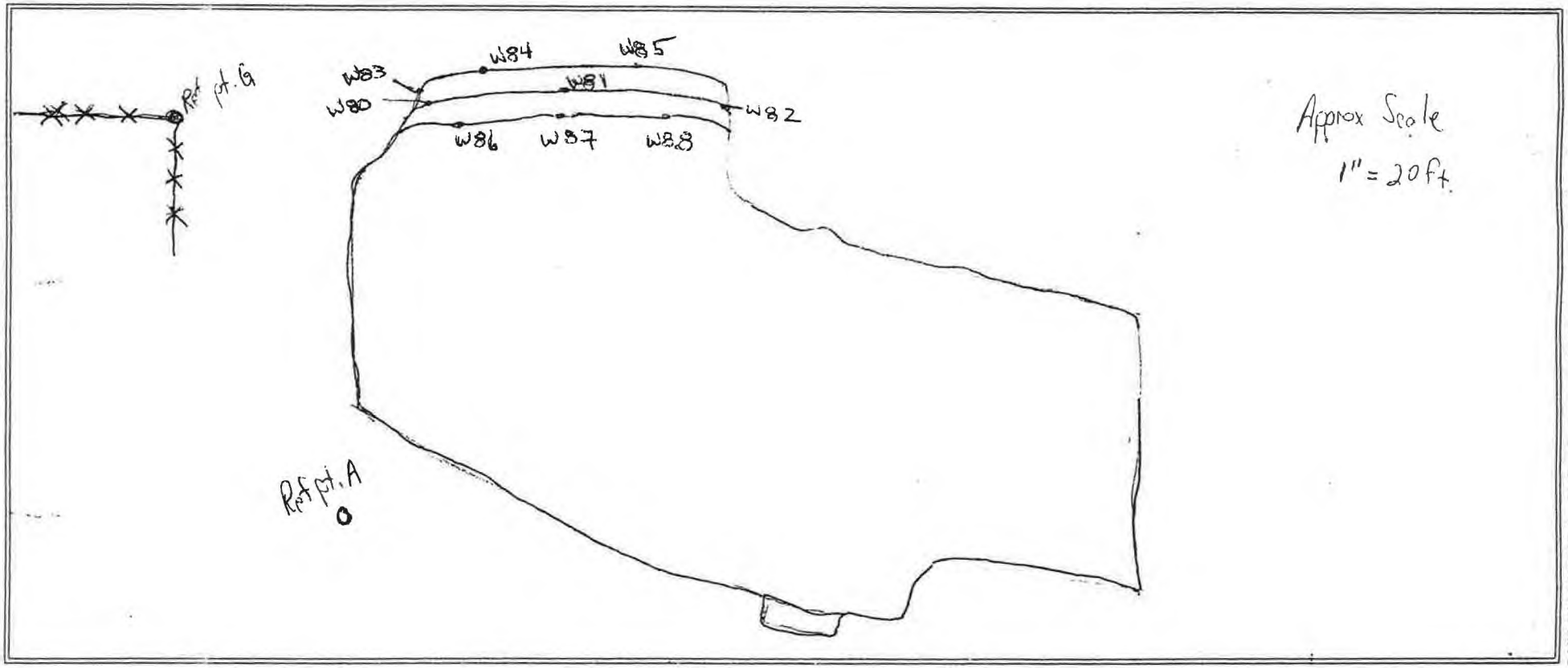
J - indicates estimated concentration less than practical quantitation limit

Note: W73 collected on 11/30/94

Sample Location Map
Fort Devens - Project #16208

Date: 12-02-14

Site Name: AREE 63BE



Comments/Observations:

W86, W87 & W88 are mislabeled on flags as W76, W77, & W78, respectively.

Building 2299

Prepared by: M. Quinlan

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 12-07-94 Site Name: AREE 63BE

Weather: Overcast & Rainy Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SB AR63BE W89	0800	G	9.5			Clayey Gray Sand w/ some cobble	1 x 40 ml Vial
B28	0804		12	See Map		" " "	
W90	0807		9.5			Moist Gray clayey sand w/ odor	
B29	0810		12			" " w/ cobble	
W91	0815		9.5			" " "	
B30	0818		12			" " "	
W92	0822		9.5			" " "	
B31	0825		12			" " "	

Ref. Pt.___: sidewall sampled was measured off building

Ref. Pt.___: See Map

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): Michael N Dunn 12-07-94 0915 Received by (dd/tt): Michael N Dunn 12-07-94 0915

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 12-07-94 Site Name: AREE 63BE

Weather: Overcast & rainy Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
W93	0830	G	1	See	Map	Moist gray clayey-sand	1 x 40ml Glass vial
W94	0835	↓	12.5			" "	↓
W95	0840	↓	10			" "	↓

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

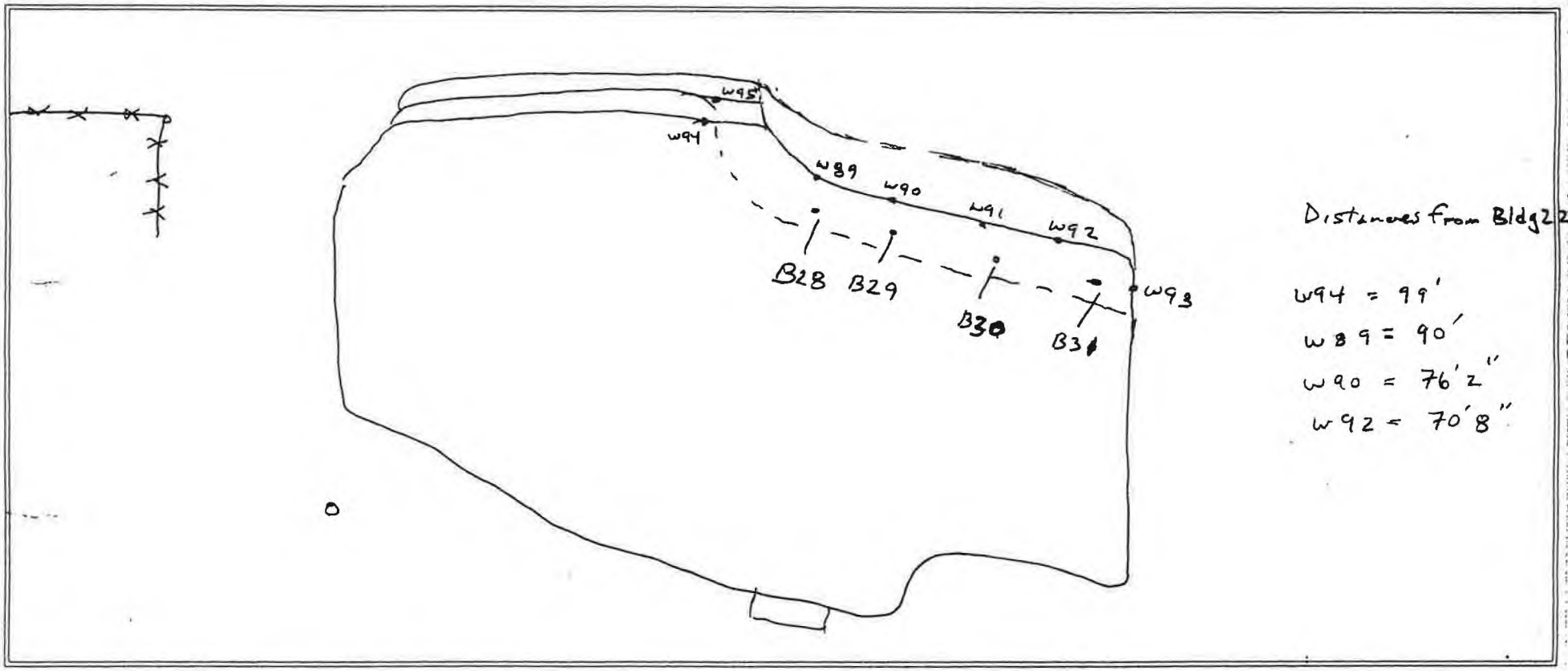
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 12-07-94

Site Name: AREE 63BE



Comments/Observations:

Bldg 2299

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: ARGE 63BE Date: 12-07-94 GC Analyst: TPH Analyst: MG

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																	
Aroclor 1260	2 ppm																		
chlordane	1 ppm																		
Percent Recovery																			
2,4,5,6-tcmx																			
decachlorobiphenyl																			

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID SBARG63BE																	
		W89	W90	W91	W92	W93	W94	W95	B28	B29	B30	B31							
TRPH	500 ppm	735	1,789	1,615	50	1,265	464	2,209	55	347	274	97							
	500 ppm																		
	500 ppm																		

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 9-27-94 Site Name: Bldg. 2290 Pg. 1 of 2

Weather: COOL, OVERCAST Samplers: BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
BLDG2290B1	1120	G	8'			moist grey silt, small pebbles, strong petrol odor	1 x 40 ml VOA
B1	1126	G	15'			moist yellowish grey clay mixed w/sand Petrol odor	
B2	1128	G	2'			organic smell, orange brown organic soil, light roots	
B3	1130	G	3'6"			yellow SAND	
B4	1134	G	5'			Light color sand, Slight petrol odor	
B5	1136	G	6'			course light & dark grain sand some small pebbles, yellowish	
B6	1140	G	8'			grey clay, strong petrol odor	
B7	1215	G	10'	8 feet in under Bldg		wet yellowish grey clay small pebbles petrol odor	

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

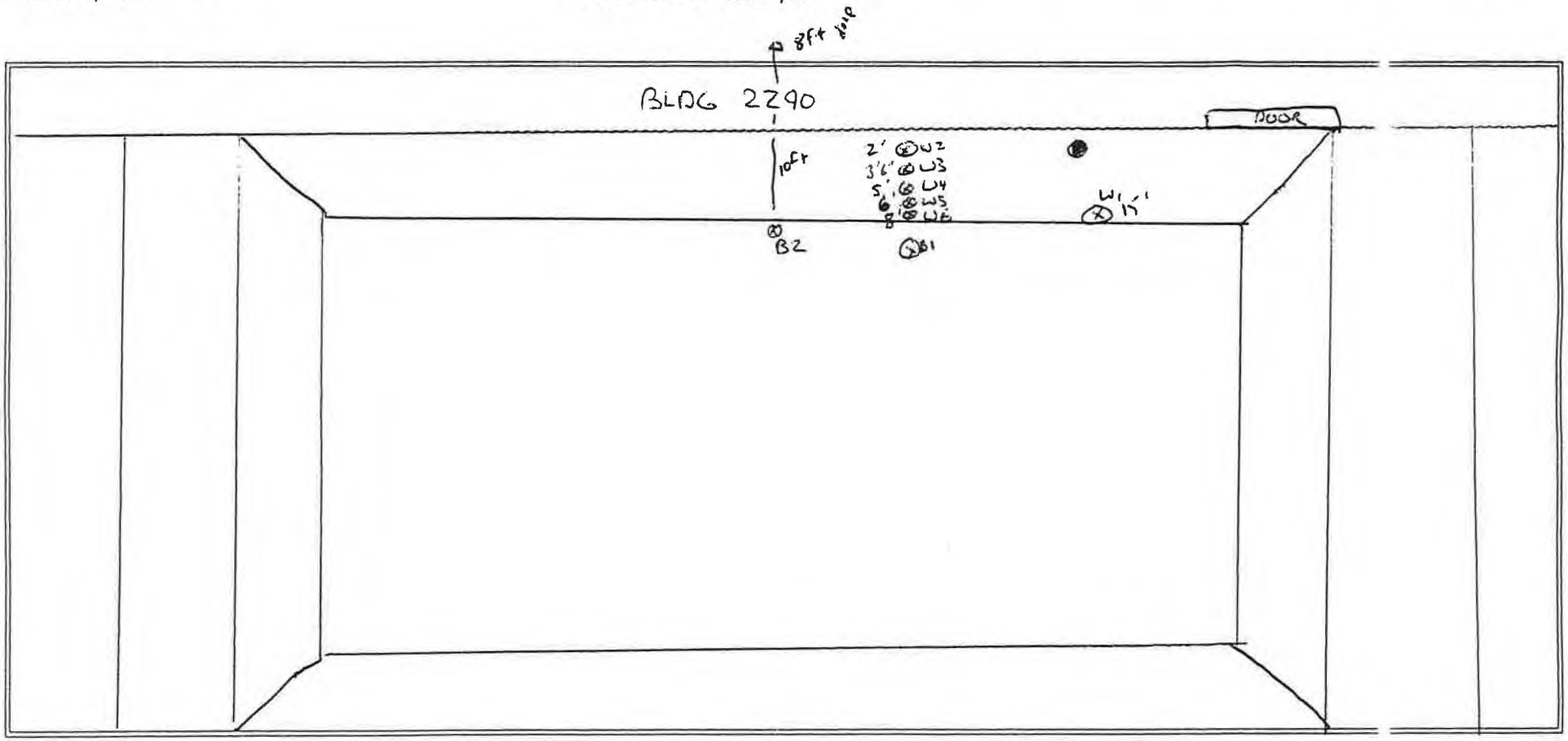
Relinquished by(dd/tt): [signature] 9-27-94 1230 Received by (dd/tt): [signature] 9.27.94 1230

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 9-27-91

Site Name: 2290



Comments/Observations:

Note: All samples collected from underneath Bldg. 2290

Prepared by: Bill L

Site: Ft. Devens, MA Location No.: SA 36 & Bldg 2290 Date: 9.27.94 GC Analyst: MRB TPH Analyst: MRB

Method 8080

Sample ID SDSA36SD

Concentration (mg/kg)	Action Level	B3	W6	B4															
Aroclor 1260	2 ppm																		
chlordane	1 ppm	7.7	.2	.3															
DDT		1.7	–	.1															
Percent Recovery																			
2,4,5,6-tcmx																			
decachlorobiphenyl																			

Method 418.1

Sample ID Bldg 2290

Concentration (mg/kg)	Action Level	B1	W1	W2	W3	W4	W5	W6	B2										
TRPH	500 ppm	2087	274	ND	ND	ND	ND	3904	3147										
AHC		595	85	ND	ND	ND	ND	1057	808										
	500 ppm																		
	500 ppm																		

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-02-94 Site Name: AREE 63BE (2290)

Weather: Windy & cold Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt A	Coordinates Ref. Pt B	Sample Description	# of Bottles
SB AR63BE B1	1405	G	10	36'6"	45'6"	gray clayey sand	1x40ml
B2	1408		10	46'6"	44'	" " "	
B3	1410		10	38'6"	52'9"	Brown sand w/ some gray clay	
W1	1415		8.5	31'6"	44'	gray clayey sand	
W2	1418		8.5	47'	38'9"	" " "	
W3	1425		9	57'	49'9"	" " "	
B4	1427		10.5	51'6"	57'	" " "	
W4	1430		9	59'6"	61'9"	Brown sand	

Ref. Pt. A : Utility Pole > see map

Ref. Pt. ___ : Pine tree

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): Michael G. Quirk 11/02/94 1530 Received by (dd/tt): O'Reilly 11.2.94 1530

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-02-04 Site Name: AREE 63BE (2290)

Weather: windy + cold Samplers: MG Q

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.A	Ref. Pt.B	Sample Description	# of Bottles
AR63BE 005	1435	G	10'	59'	61'	grayish clay	1 x 40ml
006	1440	"	10'	46'9"	62'6"	" "	↓
007	1443	"	9.5'	33'4"	55'	grayish clayey sand w/ brown sand	↓

Ref. Pt.___: _____

Ref. Pt.___: See 29.1

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

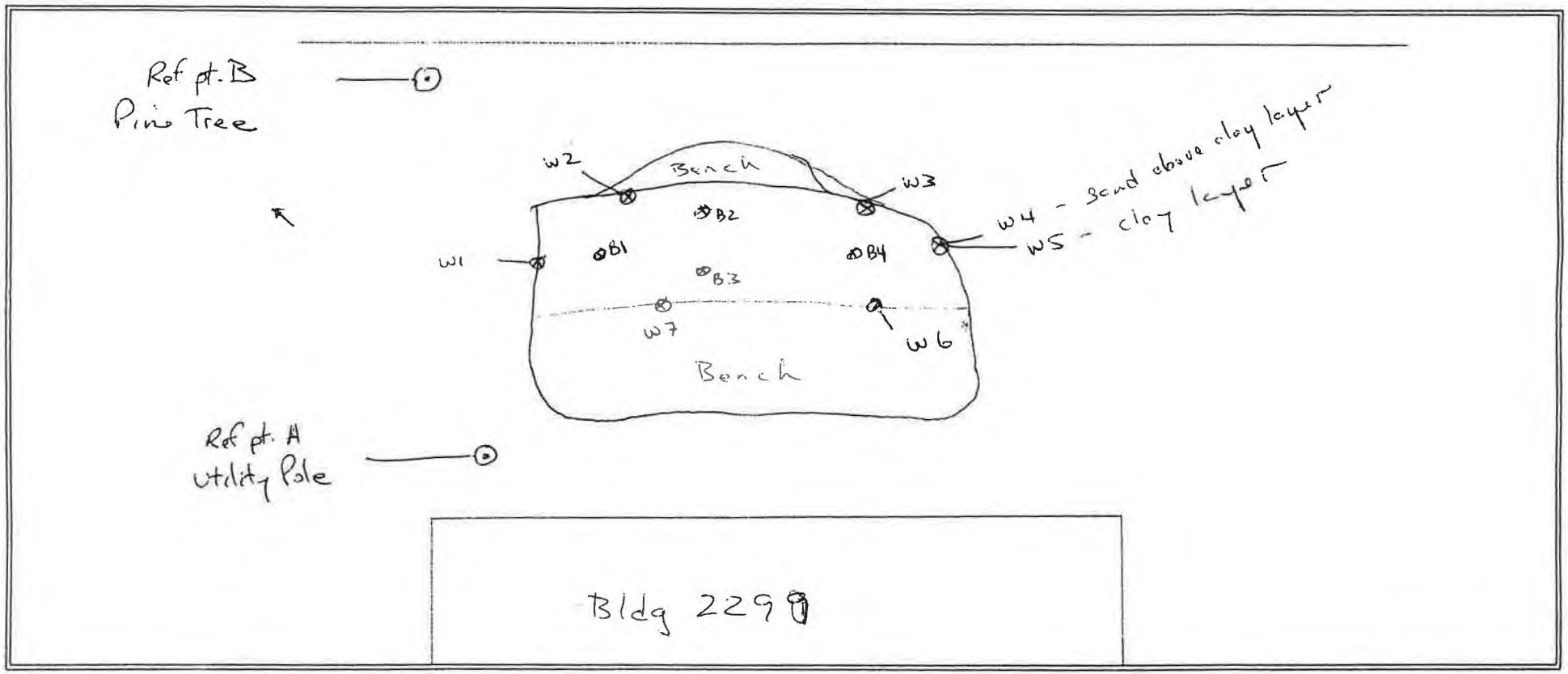
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 11-02-94

Site Name: AREE 63BE



Comments/Observations:

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: AREE63 3E Date: 11.2.94 GC Analyst: TPH Analyst: MRB Page 1 of 1

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID SB AR63 3E																		
		W1	W2	W3	W4	W5	W6	W7	B1	B2	B3	B4								
TRPH	500 ppm	6049	1264	399	85	3067	897	1354	3331	1895	1400	5154								
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 2

Date: 11.3.94 Site Name: AREE63BE

Weather: Sunny/cool Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SB AR63BE B5	1036	G	14'6"	46'	47'	goldish clay	1X40ml
B6	1046		10'	21'	63'	wet sandy soil	"
B7	1047		10'	25.5'	58'	Goldish clay/cobble	"
B8	1050		10'	30.5'	53'	Goldish clay w cobble	"
W8	1038		13'6"	45'	47	wet blackish sandy soil strong PH odor	"
W9	1052		9'	18'	60'	Goldish clay w cobble	"
W10	1055		8'	21'	59'	Goldish clay w cobble	"
W11	1059		8'	26'	53'	Goldish clay, some black areas, strong petrol smell	"

Ref. Pt. A: utility Pole) see map

Ref. Pt. B: Pine Tree)

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: Onsite Lab ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): Σ K Blom 11/03/94 1135 Received by (dd/tt): Σ K Blom 11/03/94 1130

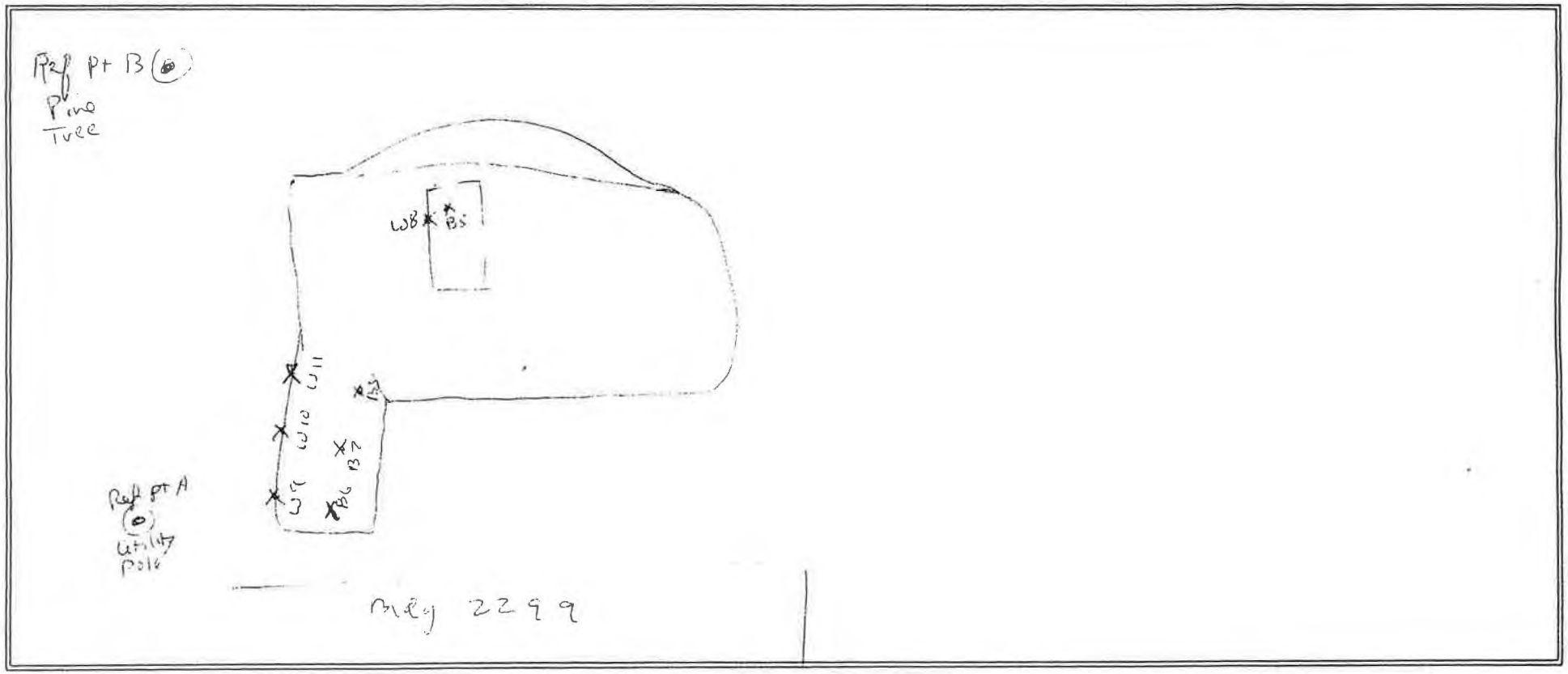
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 11.3.94

Site Name: AREE 63 BE



Comments/Observations: Not to scale

Note: BS is approximately at site of B2 existed

Prepared by: MRR

ite: Ft. Devens, MA Location No.: AREE 63 BE Date: 11.3.94 GC Analyst: TPH Analyst: MRB

ethod 8080

oncentration (mg/kg)	Action Level	Sample ID																		
roclor 1260	2 ppm																			
chlordane	1 ppm																			

ercent Recovery

2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SBAR63BE																	
TRPH	500 ppm	B5	B6	B7	B8	W5	W9	W10	W11											
		325	ND	1112	2010	6477	ND	196	2191											
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-08-94 Site Name: AREE 63BE

Weather: Windy, Overcast & cool Samplers: M. Blea n

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.A	Ref. Pt.B	Sample Description	# of Bottles
SB AR 63BE B9	0937	G	13'	29'7"	66'9"	Wet yellow/tan clay	1 x 40ml
B10	1005		13'	35'3"	55'	Wet yellow sandy clay w/ cobble	
B11	1008		13'	35'11"	47'10"	wet yellow/gray clay	
B12	0940		10'9"	26'4"	45'3"	Tan sand & clay some gray, lots of cobble	
W12	0922		9'3"	15'7"	58'6"	Tan Clay	
W13	0921		8'9"	20'9"	50'5"	yellow/orange clay	
W14	0925		10'6"	18'7"	59'3"	" "	
W15	0928		8'9"	25'3"	69'7"	" "	

Ref. Pt. A: Utility Pole

Ref. Pt. B: Pine Tree

Map Attached: Yes No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): [illegible] 11-08-94 1150 Received by (dd/tt): M. Blea 11-08-94 1150

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-08-94 Site Name: AREE 63BE

Weather: Windy, overcast, cool Samplers: M. Bleau

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Ref. Pt.	Sample Description	# of Bottles
SBAR63BE W16	0932	G	10'6"	35'5"	72'8"	Orange sand stained black, strong smell, cobble	
W17	1003		9'6"	49'2"	39'	gold grey clay, some rocks	
W18	0958		11'3"	36'3"	39'7"	yellow sand grey clay lots of cobble TPH smell	
W19	0945		8'9"	28'4"	42'6"	Tan sand w black specs TPH smell	
W20	0955	↓	11'3"	24'7"	51'10"	Gold sand w black stains, cobble	

Ref. Pt A: Utility Pole

Ref. Pt. B: Pine Trees

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

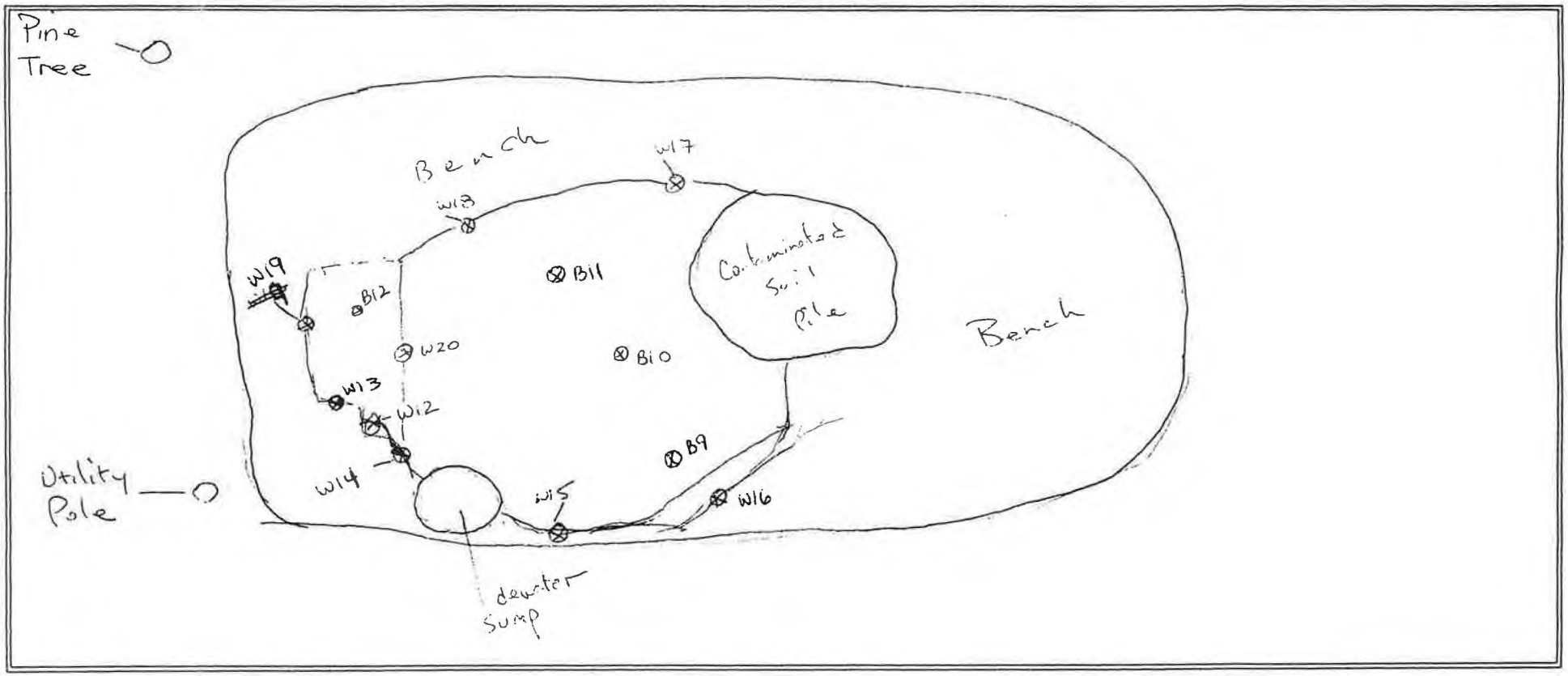
Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Date: 11-08-94

Site Name: AREE 63BE



Comments/Observations: Total Depth of excavation estimated at 13'.

Sheen present on water in bottom of excavation.

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: AREE63BE / UST 2651 Date: 11.8.94 GC Analyst: TPH Analyst: MRB Page 1 of 1

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SBAREG3BE													UST 2651				
		B9	B10	B11	B12	W12	W13	W14	W15	W16	W17	W18	W19	W20	BG1	BG2				
TRPH	500 ppm	ND	ND	64	2472	816	ND	ND	ND	8126	2274	4082	4376	4838	57	125				
	500 ppm																			
	500 ppm																			

J - indicates estimated concentration below practical quantitation limit

ND - TPH not detected

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11.9.94 Site Name: AREA 63BE

Weather: cloudy, overcast Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SB AR63BE W21	1004	G	10'	29'8"	75'11"	Lt Brown sand	1 x 40ml VOA
W22	1006		10'	35'4"	82'2"	Lt Brown sand & clay some rock	
W23	1007		10'8"	42'6"	85'0"	Grey green clay, some sm cobble, TPH smell, black spots	
W24	1011		10'4"	45'7"	82'8"	Grey green clay, some small orange sandy spots, black spots	
W25	1014		11'4"	48'0"	74'2"	yellow grey clay, some Gravel Strong TPH smell, black spots	
W26	1019		10'6"	46'10"	71'1"	yellow grey clay, Strong TPH smell, black spots	
W27	1021	↓	11'9"	51'4"	46'4"	Black stained sand STRONG TPH smell	↓

Ref. Pt. A : Utility Pole

Ref. Pt. B : Pine Tree

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

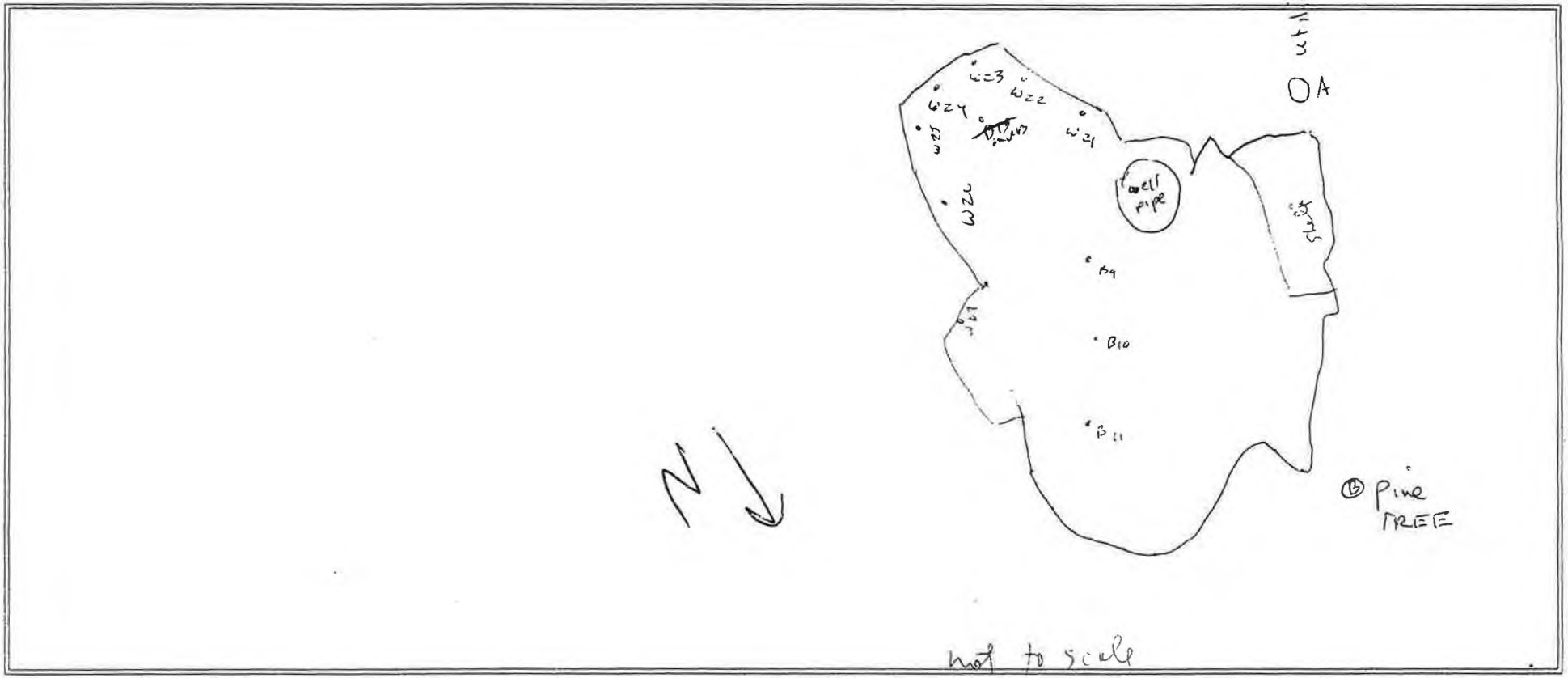
Relinquished by(dd/tt): MBlean 11.9.94 1053 Received by (dd/tt): Michael D Rank 11.

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Date: 11.9.94

Site Name: AREE 63 BE



Comments/Observations:

Prepared by: MRB

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11.9.94 Site Name: AREE 63BE

Weather: overcast, windy Samplers: MCR VB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SBAR 63BE B13	1442	g	13'	42'10"	59'34	yellowish sand, some dark sandy areas	1x4oml VOA
B14	1447	↓	13'8"	42'6"	43'5"	Black stained and yellow sand w silt & lots of cobble Dug by excavator to get below water level	↓
W28	1432		11'3"	53'8"	75'1"	Black stained sand	
W29	1437	↓	12'6"	51'2"	77'1"	Orange sand w black stains	↓

Ref. Pt. A: utility Pole

Ref. Pt. B: Pine Tree

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

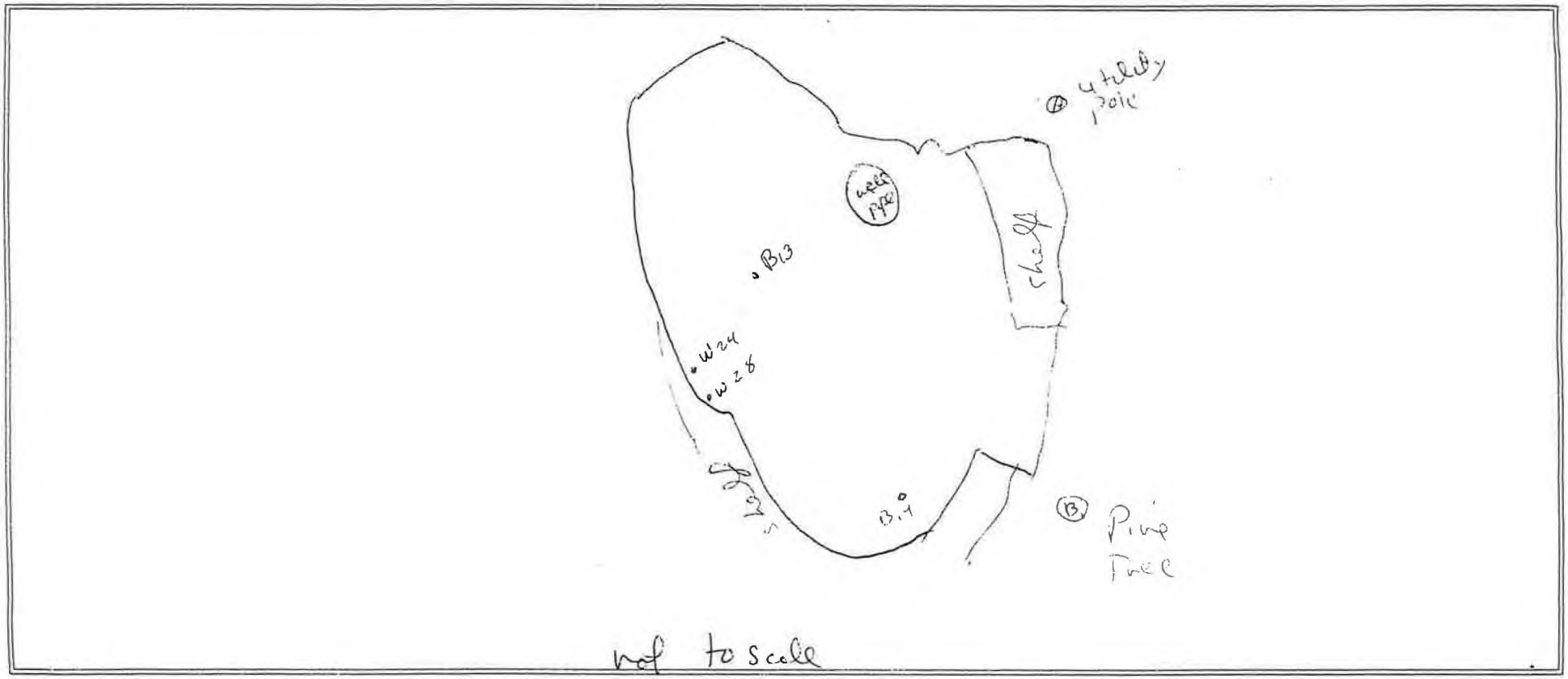
Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 11.9.94 1508 Received by (dd/tt): [signature] 11.9.9 15

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Date: 11.7.94 Site Name: AREE 63 BE



not to scale

Comments/Observations:

Prepared by: MRB

Site: Ft. Devens, MA Location No.: AREE63 BE Date: 11.9.94 GC Analyst: TPH Analyst: MRB

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			

Percent Recovery

2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SBAR63BE																	
		W21	W22	W23	W24	W25	W26	W27	W28	W29	B13	B14								
TRPH	500 ppm	ND	ND	5734	222	2664	320	4711	1333	2735	578	422								
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11.16.94　　Site Name: AR63BE

Weather: Cold, overcast　　Samplers: MGQ & [illegible]

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt A	Coordinates Ref. Pt B	Sample Description	# of Bottles
SBAR63BE W30	0915	G	12'	29'8"	78'3"	Brown silty sand w/ cobble	1 x 40 ml
W31	0920	↓	12'	26'3"	73'4"	Moist Brown sand w/ cobble	↓
W32	0925	↓	12'	22'	67'4"	" " "	↓
W33	0930	↓	9'	26'4"	78'	Brown silty sand w/ cobble	↓
W34	0935	↓	9'	20'10"	70'7"	Brown & gray silty sand	↓
B15	0940	↓	13'	28'	71'10"	Moist Brown sand w/ cobble	
W35	0955	G	~21'	N/A		Gray clayey sand w/ strong odor	

Ref. Pt. A: Telephone (utility) pole

Ref. Pt. B: Pine Tree

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # ______ USACE- coc # ______

Duplicate Taken: Yes (No)　　Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) (BTEX) — on W35 only　Chlordane　PCBs　Other ______

Relinquished by(dd/tt): Michael D. [illegible] 11/16/94 1000　Received by (dd/tt): [signature] 11.16.94 1000

Relinquished by(dd/tt): ______　Received by (dd/tt): ______

Site: Ft. Devens, MA Location No.: ~~ARBE63BE~~ Date: 11.16.94 GC Analyst: TPH Analyst: MPB/MGQ

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																	
Aroclor 1260	2 ppm																		
chlordane	1 ppm																		
Percent Recovery																			
2,4,5,6-tcmx																			
decachlorobiphenyl																			

Method 418.1

Late Entry

Concentration (mg/kg)	Action Level	Sample ID: 5BAR63BE																	
		W30	W31	W32	W33	W34	W35	B15	W39	W40	W37	W38	B16	B17	B18	W36			
TRPH	500 ppm	ND	ND	ND	ND	ND	2508	ND	1447	1939	ND	ND	ND	ND	ND	ND			
	500 ppm																		
	500 ppm																		

ND - Indicates TPH not detected

Note - W35, W39 & W40 collected from known hotspots to verify ~~field~~ elevated headspace readings in field.

DAILY FIELD SCREENING RESULTS

Page 1 of 1

Site: Ft. Devens, MA Location No.: AREE63BE Date: 11.16.94 GC Analyst: MRB TPH Analyst: MRB

Method 8020

Sample ID SBAR63BE

Concentration (mg/kg)	Action Level	W35	W37	W40																
benzene,	10 ppm	ND	ND	ND																
toluene	90 ppm	ND	ND	ND																
ethylbenzene	80 ppm	ND	ND	ND																
m,p-xylene		ND	ND	ND																
o-xylene		ND	ND	ND																
tot. tylene	500 ppm	ND	ND	ND																
chlorobenzene																				
1,2-dichlorobenz.																				
1,3-dichlorobenz.																				
1,4-dichlorobenz.																				
Percent Recovery																				
1,3-Dichlorobenzene																				

ND Compound not detected

Note – 50 wipes analyzed by GC to determine cause of high headspace readings in field. Chromatograms resembled fuel oil fingerprint & nothing unexpected was seen.

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-16-94

Site Name: ~~S~~ AREE 63BE

Weather: Overcast & Cool

Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. A	Coordinates Ref. Pt. B	Sample Description	# of Bottles
SDARG3BE B16	1150	G	13'	35'4"	79'6"	Wet brown sand on top of bedrock	1 x 40ml
B17	1155	↓	13'	43'3"	90'4"	Wet brown sand on top of bedrock	↓
B18	1200	↓	13'	49'6"	94'9"	Moist brown sand on top of bedrock w/ rock fragments	↓
W36	1205	↓	12'	38'	86'6"	Brown sand w/ cobble	↓
W37	1210	↓	12'	44'2"	93'8"	" " "	↓
W38	1215	↓	11'6"	52'	99'	" " "	↓
W39	1220	↓	10'6"	N/A		Gray soil - Random line 6 Hot spot	↓
W40	1223	G		N/A		STRONG TPH smell sample taken from excavation bucket near W39 site - small pebbles large grain, small amount of soil	↓

Ref. Pt. A: Utility pole

Ref. Pt. B: pine tree

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # ______ USACE- coc # ______

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) ~~BTEX~~ Chlordane PCBs Other______

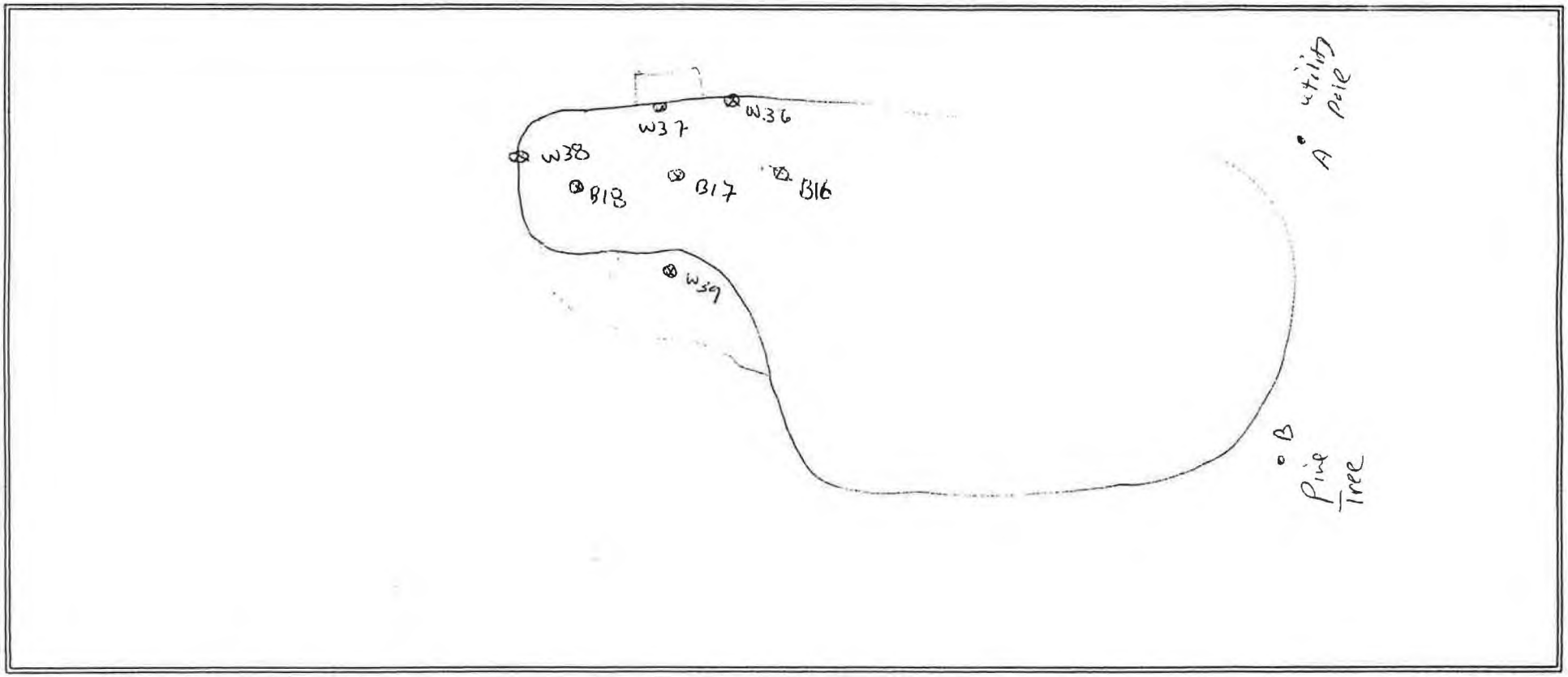
Relinquished by(dd/tt): [signature] 11/16/94 1230 Received by (dd/tt): [signature] 11-16 123

Relinquished by(dd/tt): ______ Received by (dd/tt): ______

Sample Location Map
Fort Devens - Project #16208

Date: 11-16-94

Site Name: AREE 63BE



Comments/Observations:

W39 is a grab taken from Hotspot-

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: UST 265 + AREE 63BE + AR66C Date: 11-17-94 GC Analyst: MRB/MGQ TPH Analyst: MRB/MGQ Page 1 of 1

Method 8080

Concentration (mg/kg)	Action Level	Sample ID: AR66C SS1																		
Aroclor 1260	2 ppm	ND																		
chlordane	1 ppm	0.7																		
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID: UST 265 1																		
		B7	B8	B9	B10	W20	W21	W22	W23	W24		W41				SS1				
TRPH	500 ppm	122	ND	780	ND	ND	ND	1,239	ND	ND		3,121				60,218				
	500 ppm																			
	500 ppm																			

Sample ID: SBA263BE (W41); AR66C (SS1)

ND - compound(s) not detected

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11.18.94 Site Name: AREE 63BE

Weather: Cloudy & Overcast Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt C	Sample Description	# of Bottles
SSAR63BE N42	1210	G	12'6"	56'10"	47'	Brown silty Sand	1x40ml
W43	1215		12'6"	64'	40'7"	Brown " "	
W44	1220		12'	71'10"	34'6"	Brown/gray silty sands	
W45	1225		12'	73'3"	42'2"	Gray silty sand w/odor	
W46	1230		12'	75'6"	52'3"	" "	
~~W47~~ MGQ 11/18/94	~~1235~~		~~10'~~	~~N/A~~	~~N/A~~	" "	
B19	1240		14'6"	66'6"	44'4"	Brown sand & gravel	
B20	1245		14'6"	65'11"	49'	Brown silty sand & gravel	

Ref. Pt. A: utility pole

Ref. Pt. C: Corner of bldg.

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

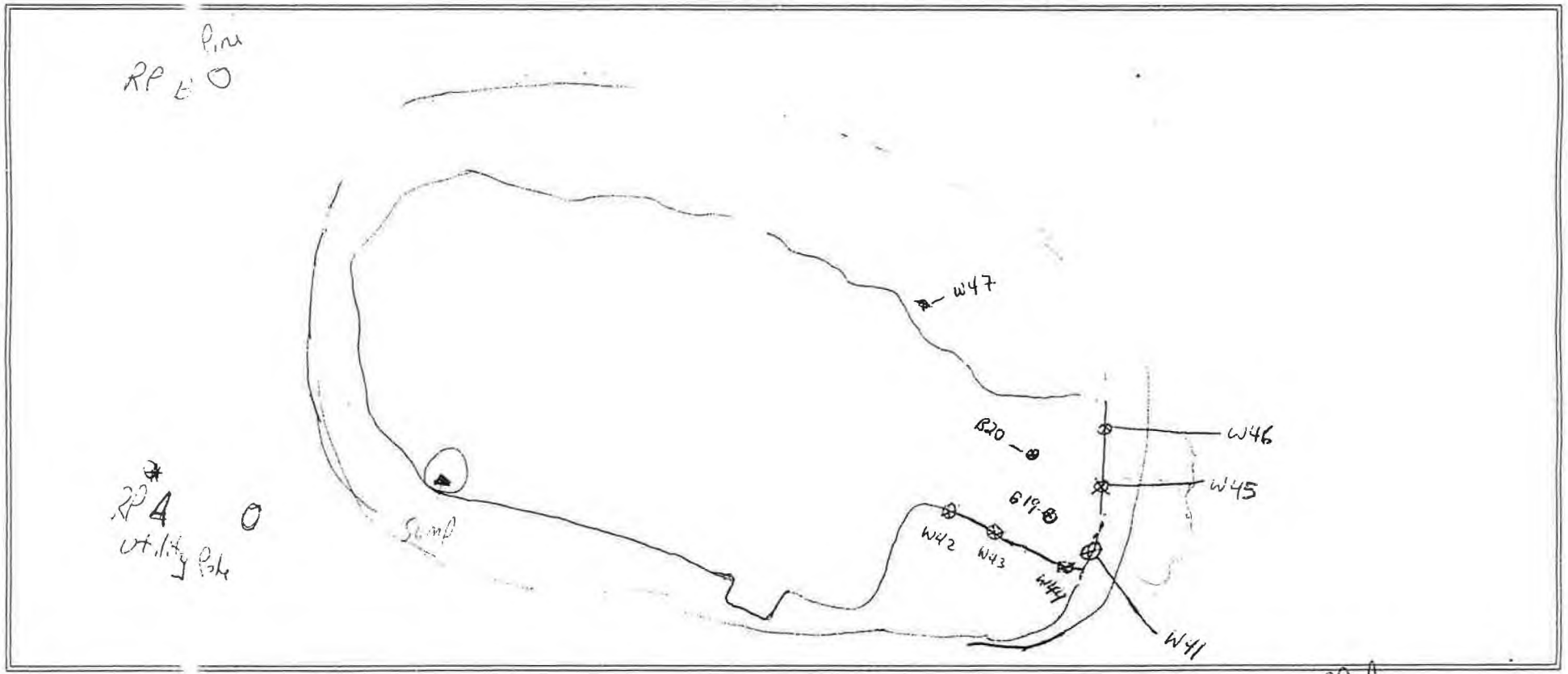
Relinquished by(dd/tt): Michael N. Dunk 11/18/94 1300 Received by (dd/tt): M.N. Dunk 11/18/94 1300

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 11-18-94

Site Name: AREE 63BE



Comments/Observations:

- W41 collected by J Bagley on 11/17/94 from depth of ~ 11' BGS

Prepared by: M. Quinlan

- W47 was grab of hot material that was not analyzed
- Established a third reference point RP C - corner of building

Site: Ft. Devens, MA Location No.: UST 2651 & AREE 63BE Date: 11-18-94 GC Analyst: TPH Analyst: MGJ

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID UST 2651 — SBAR63BE																		
		W25	W26	W27	B11	B12	B13		W42	W43	W44	W45	W46	B19 ~~W47~~	B20					
TRPH	500 ppm	13 J	ND	ND	ND	ND	ND		ND	ND	ND	4,596	2,589	193	433					
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11.21.94 Site Name: AREE63BE

Weather: overcast, cold Samplers: Jim Bagley

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt A	Coordinates Ref. Pt C	Sample Description	# of Bottles
SBAR63BE W48	1435	G	10'	90' 11"	33' 4"	Grey green silty clay dry, small cobble	1x4oml

Ref. Pt. A : utility pole

Ref. Pt. B/C: _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

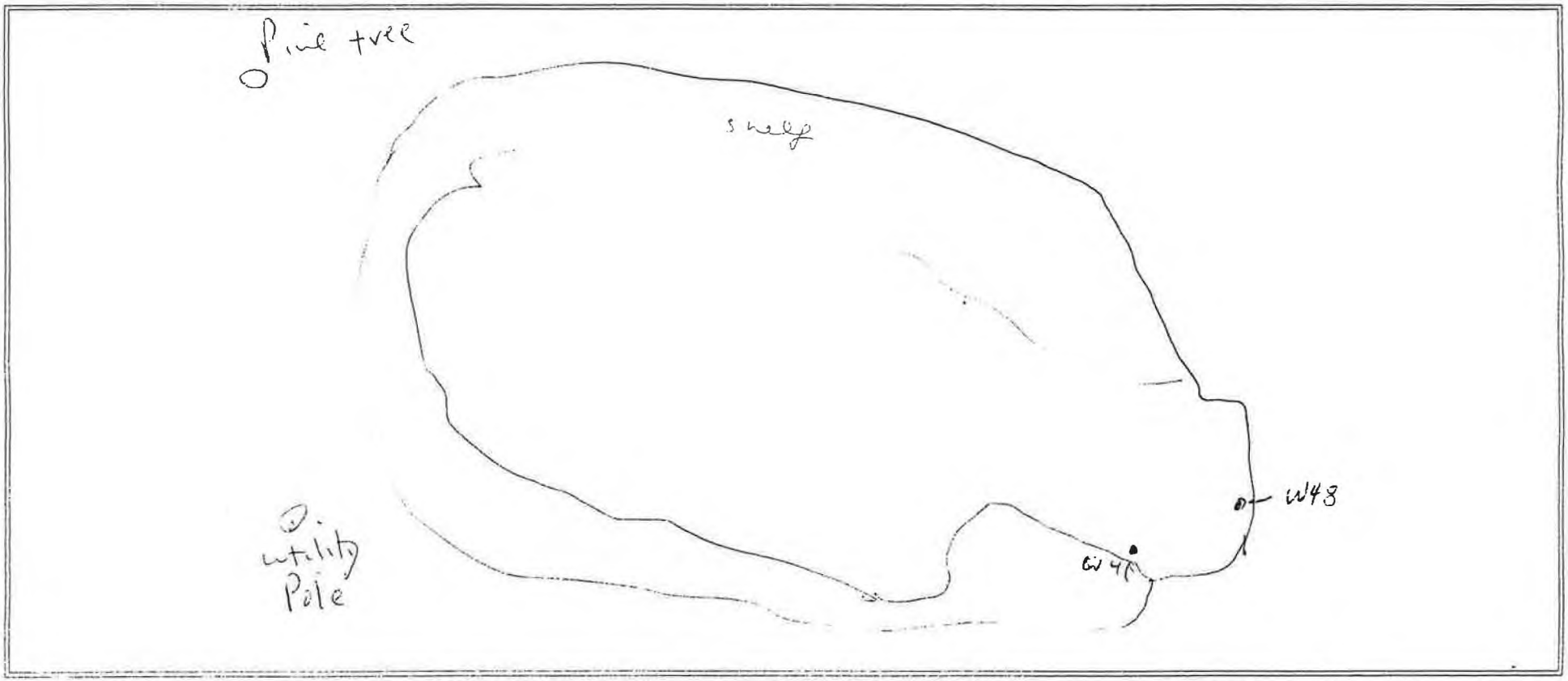
Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 11-21-94 1450 Received by (dd/tt): [signature] 11-21-9 1450

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Date: 11.21.94 Site Name: ARIEG3BE



Comments/Observations:

- W 48 collected by J. Bagley from depth ≈ 10'

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: ARFE63BE Date: 11-21-94 GC Analyst: TPH Analyst: MRB Page 1 of 1

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																	
Aroclor 1260	2 ppm																		
chlordane	1 ppm																		
Percent Recovery																			
2,4,5,6-tcmx																			
decachlorobiphenyl																			

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SBAR63BE																
TRPH	500 ppm	648																	
		257																	
	500 ppm																		
	500 ppm																		

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-22-94 Site Name: AREE63BE

Weather: Sunny & cool Samplers: JB & MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt A	Coordinates Ref. Pt C	Sample Description	# of Bottles
SBAR63BE W49	1345	G	11'6"	91'6"	30'9"	Brown Clay w/some rocks	1 x 40ml Glass Vial
W50	1347		11'6"	91'6"	41'6"	" "	
W51	1350		11'6"	61'	53'	tan/brown sand	
W52	1352		15'	37'	33'3"	Brown Clay/Lt. brn soil w/odor	
W53	1355		14'6"	31'3"	38'8"	Grey brown Clay/Clay w/slight odor	
W54	1357		15'	33'2"	36'9"	Grey Clay w/rocks w/odor	
W55	1400		13'6"	Ref Pt A 3-1'2"	Ref Pt B 39'11"	Wet rocky Brown Soil w/odor	
W56	1402		12'	38'	37'3"	Grey Clay w/odor	

Ref. Pt. A : Utility Pole

Ref. Pt. B : Pine Tree

C corner of Bldg.

Map Attached: Yes No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 11-22-94 1440 Received by (dd/tt): [signature] 11.22.94 1440

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-22-94 Site Name: AREE 63 BE

Weather: Sunny ; Cool Samplers: JB & MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. A	Coordinates Ref. Pt B	Sample Description	# of Bottles
SSARG3BE W57	1405	G	15'6"	36'4"	38'	WET Dark Grey Sand Strong odor	1 x 40ml Glass Vial
W58	1407		12'	45'7"	34'3"	Grey Clay w/odor	
W59	1409		15'	43'	35'	Tan Clay w/odor	
W60	1412		11'6"	[illegible]	32'5"	tan Grey Sand w/odor	
W61	1415		9'	45'4"	29'3"	Grey Clay w/odor	
W62	1417		9'6"	38'3"	[illegible]	" "	
W63	1420		10'6"	26'2"	46'5"	Brown Grey Clay	
W64	1422		12'	65'8"	66'	Grey Clay w/strong odor	
W65	1425	↓	12'	74'8"	[illegible]	" "	↓

Ref. Pt. A: utility pole

Ref. Pt. B: Pine Tree

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

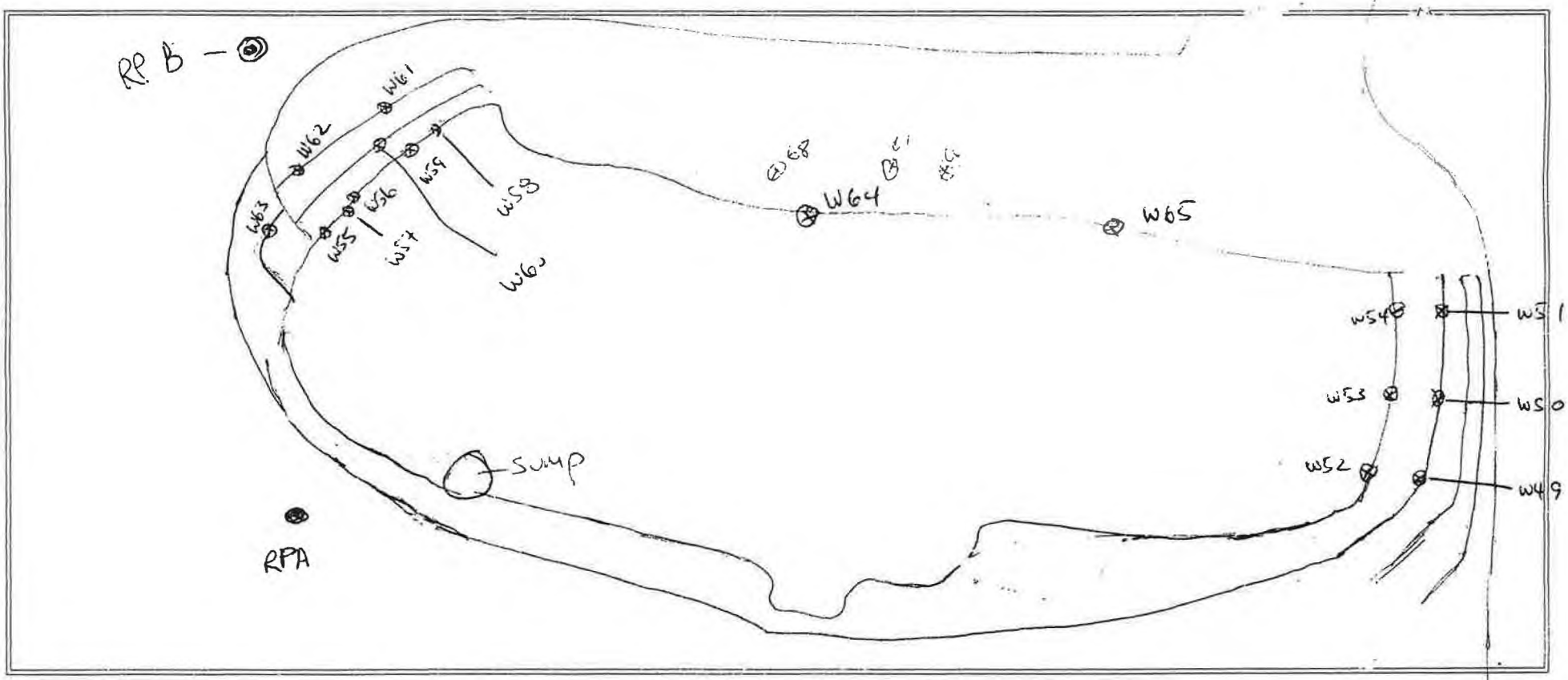
Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Date: 11-22-94

Site Name: AREE 63BE



Comments/Observations:

Total Depth of Excavation ~16' BGS

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: AREE63BE UST 265L Date: 11·22·94 GC Analyst: TPH Analyst: BD/MRB Page 1 of 1

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	TIC	EC	SC	DC	WC	D4P	TRP	W49	W50	W51	W52	W53	W54	W55	W56	W57	W58	W59	W60
TRPH	500 ppm	UST 265I / SBAREG3BE	NP	ND	ND	36J	NP	ND	ND	ND	ND	ND	705	ND	971	305	574	6318	634	202	2012
AREG3BE		W61	W62	W63	W64	W65															
	500 ppm	6840	3680	222	ND	1903															
	500 ppm																				

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-23-94 Site Name: SBAR EE 63 BE

Weather: COLD, WINDY Samplers: BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. A	Ref. Pt. C	Sample Description	# of Bottles
SBAR63BE W 66	0930	G	12'	66'2"	90' 11"	Grey clay w/ odor	1 Kynar VOA
W 67	0935	G	12'	65'2"	92'7"	"	↓
W 68	0940	G	12'	62'8"	101'8"	"	↓

Ref. Pt. A : Pole

Ref. Pt. C : _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

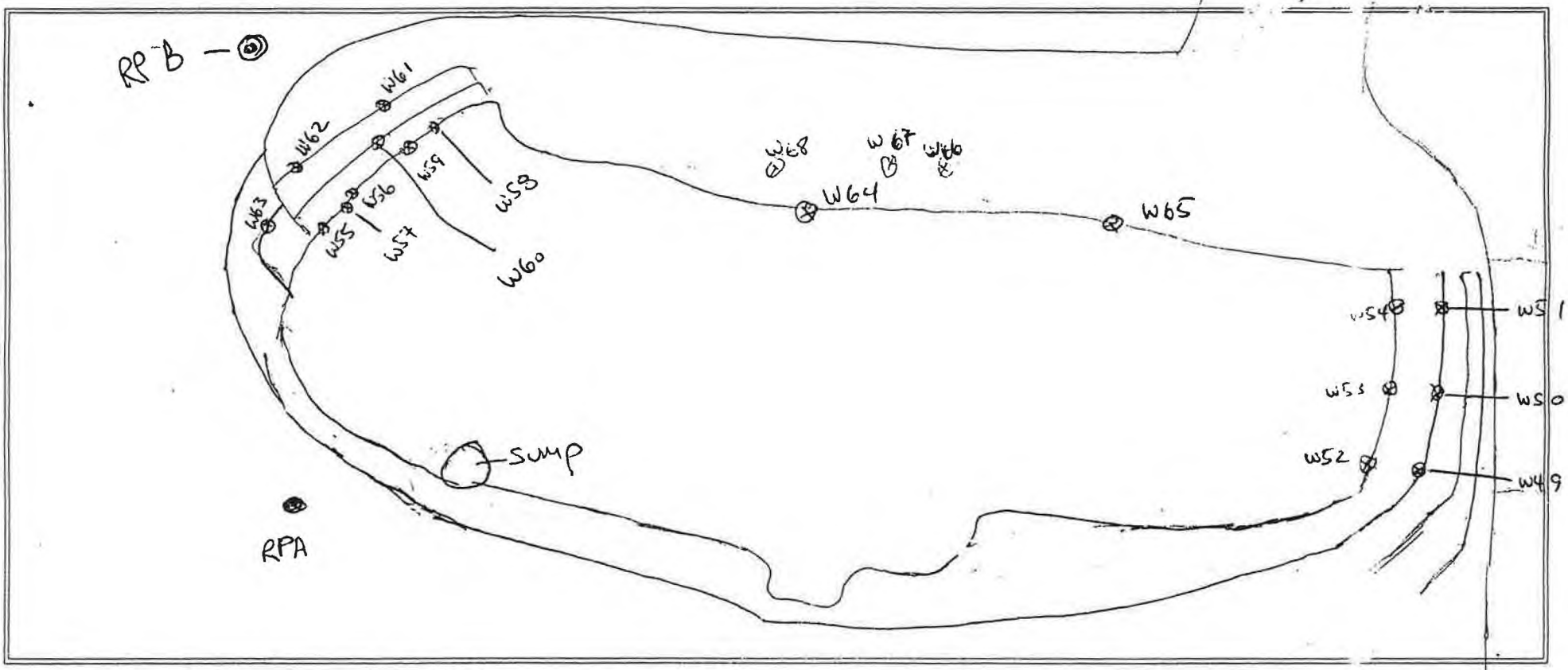
Relinquished by(dd/tt): [signature] 11-23-94 0945 Received by (dd/tt): [signature] 11-23-94 0945

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Date: 11-23-94

Site Name: AREE 63BE



Comments/Observations:

Total Depth of Excavation ~16' BGS

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: AREE 63BE Date: 11.23.94 GC Analyst: TPH Analyst: MRB

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SBAR63BE																
TRPH	500 ppm	W66	W67	W68															
		903	2182	2200															
	500 ppm																		
	500 ppm																		

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-30-94 Site Name: AREE 63BE

Weather: Sunny + warm Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. E	Ref. Pt. F	Sample Description	# of Bottles
SBAR63BE B21	1000	G	9'	51'	76'	Gray sandy clay	1x40 ml Vial
B22	1002	↓	9'	51'	76'	" " "	↓
W69	1005		12'	D 32'	E 104'	Gray silty sand	
W70	1007		10'	↓	↓	Gray sandy Clay	
W71	1010		8'			" " "	
B23	1012		12.5'	↓	↓	" " "	
B24	1022		12.5'	48'	76'	" " "	
B25	1023	↓	12.5'	48'	76'	" " "	↓

Ref. Pt. D: Utility Pole See map

Ref. Pt. E: Corner of building 2289
F Corner of " 2288

Map Attached: Yes No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # ____________ USACE- coc # ________

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other____________

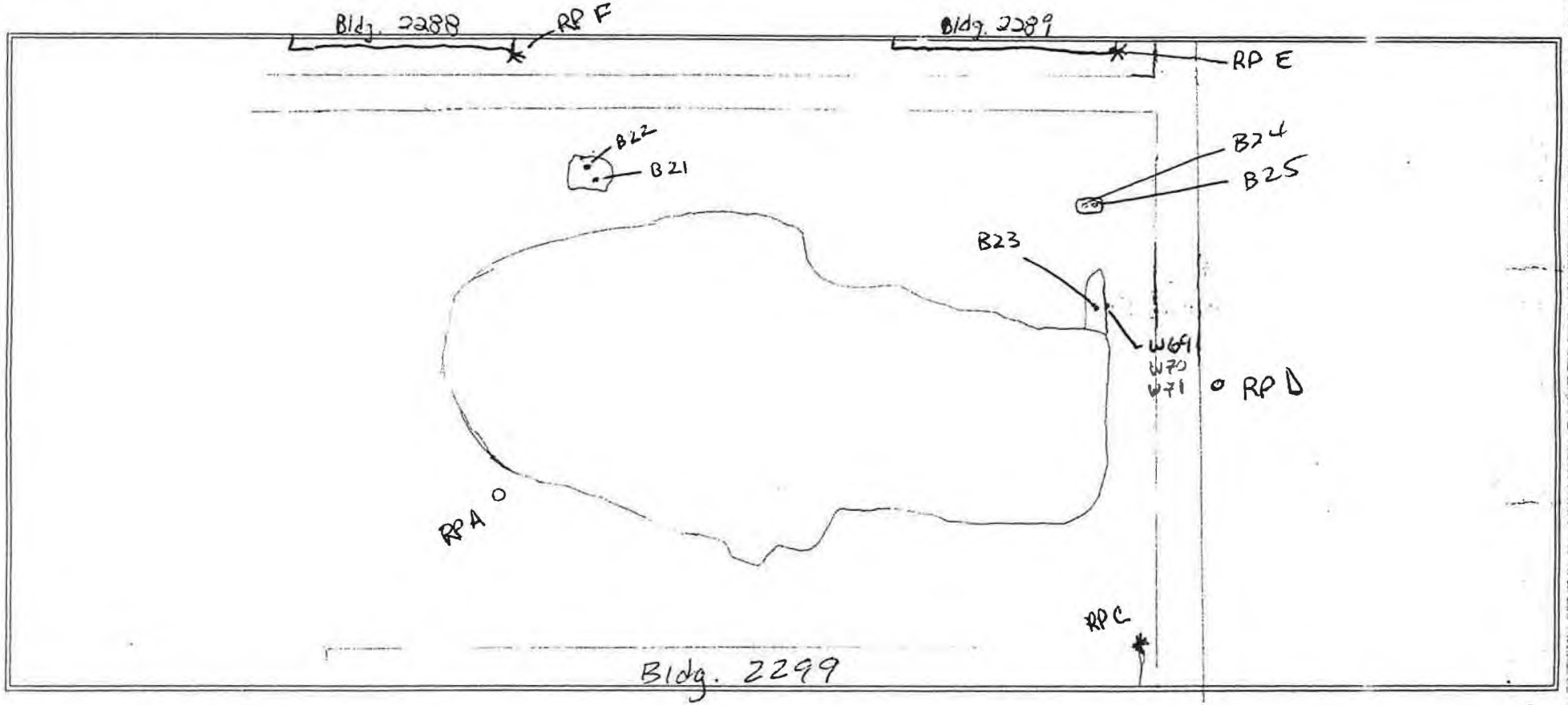
Relinquished by(dd/tt): [signature] 11/30/94 1040 Received by (dd/tt): [signature] 11/30/94 1040

Relinquished by(dd/tt): ____________ Received by (dd/tt): ____________

Sample Location Map
Fort Devens - Project #16208

Date: 11·30·94

Site Name: AREE 63BE



Comments/Observations:

RP = Reference Points

Notes: B24 & B25 were collected w/ backhoe bucket. B21 & B22 taken from underneath chimney footing

o = utility pole

• = soil sample location

Prepared by: M. Quinlan

Site: Ft. Devens, MA Location No.: AREE63BE Date: 11.30.94 GC Analyst: TPH Analyst: MRB Page 1 of 1

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Sample ID SBAR63BE

Concentration (mg/kg)	Action Level	B21	B22	B23	B24	B25	W69	W70	W71	W74	W75	W76	W72 ~~W73~~	W77	W78	W79	B26	B27		
TRPH	500 ppm	229	74	837	366	2334	35 J	72 J	129	1303	108	3187	3415	20 J	7 J	10 J	135	120		
	500 ppm																			
	500 ppm																			

J = indicates estimated concentration below practical quantitation limit

Note: Select samples also analyzed by GC to verify TPH results by IR.

- ~~W73~~ inadvertantly not analyzed - will analyzed when power is restored

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-30-94 Site Name: AREE 63BE

Weather: Sunny & Mild Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SBAR63BE B26	1410	G	10'			Brown sand w/ cobble	1x 40ml Vials
B27	1412		10'			Gray clayey sand - strong odor	
W72	1415		8'	See Map		Black/gray (moist) sand	
W73	1418		8'			Gray clayey sand strong odor	
W74	1435		10'			Gray clayey sand	
W75	1437		10'	(E) 94'	(F) 73.5'	Moist (wet) clayey sand	
W76	1442		10'			Gray clayey sand	
W77	1423		11.5'	(A) 18.6'	(G) 66'	Brown sand w/ cobble	

Ref. Pt. A: Utility Pole - see map
E corner of Bldg 2289

Ref. Pt. F: " " " 2288
G - corner post of chainlink fence - see map

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 11/30/94 1540 Received by (dd/tt): [signature] 11/30/94 1540

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 11-30-94 Site Name: AREE 63BE

Weather: Sunny & Mild Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SBAR63BE W78	1428	G	11.5	See Map		Brown sand w/ cobble ~~(wet)~~	1 x 40 ml Glass
W79	1430	〃	11.5			Brown sand w/ cobble	〃
		〃					

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

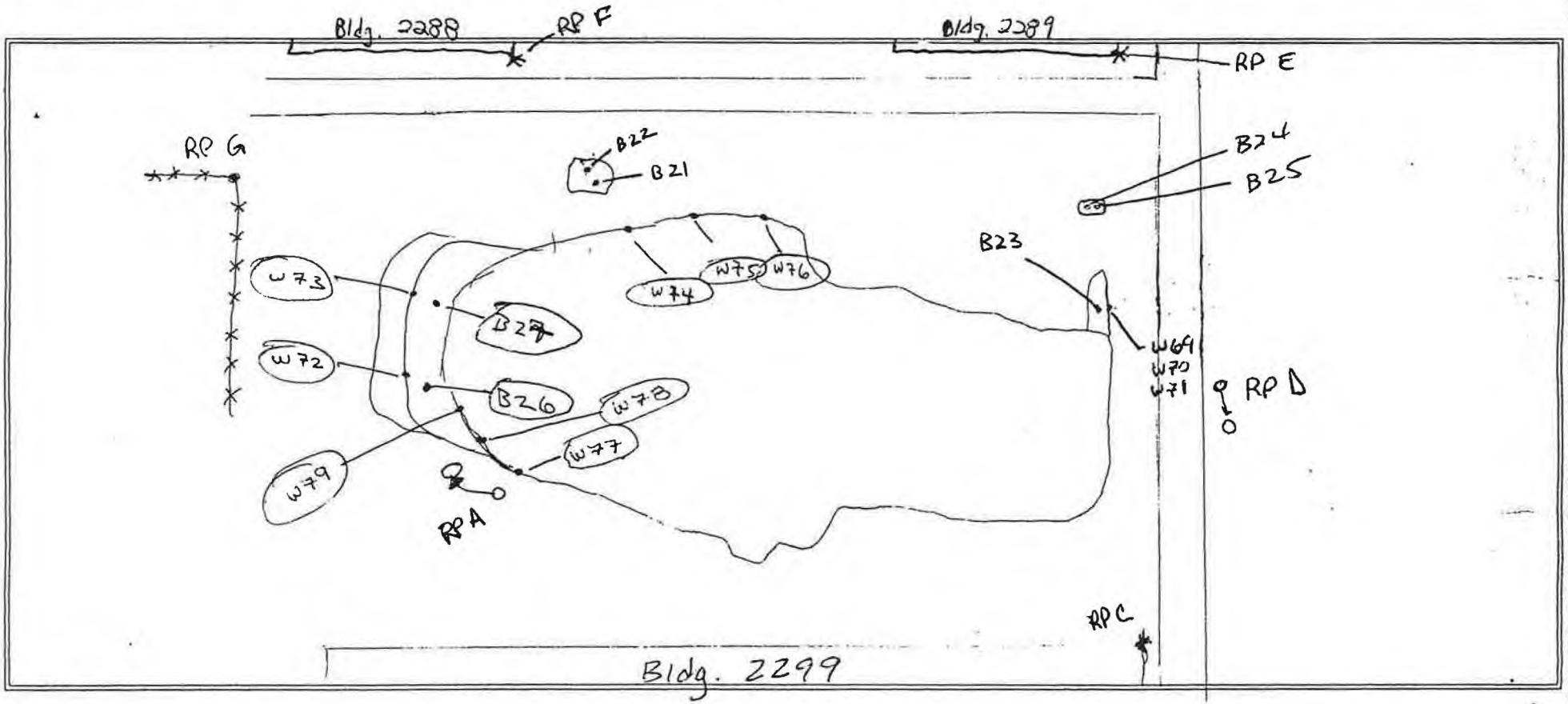
Relinquished by(dd/tt): [signature] 11/30/94 1540 Received by (dd/tt): [signature] 11/30/94 1540

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 11·30·94

Site Name: AREE 63BE



Comments/Observations:

RP = Reference Points

Notes: B24 & B25 were collected w/ backhoe bucket. B21 & B22 taken from underneath chimney footing

o = utility pole

• = soil sample location

Prepared by: M. Quinlan

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 7

Date: 1-5-95 Site Name: SBAR 63BE

Weather: COLD, CLEAR Samplers: BO/MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. G	Coordinates Ref. Pt A	Sample Description	# of Bottles
SBAR63BEW96	1056	G	5'4"	38'8"	37'1"	lt brown yellow sand lots of rocks & cobble	1x40-1 VOA
W97	1058		5'7"	34'6"	43'9"	yellowish sand with lots of rock & cobble	
W98	1103		5'6"	30'6"	50'10"	Coarse orange & brown sand lots of pebbles	
W99	1106		5'6"	27'10"	59'8"	Fine orange & brown sand few small pebbles	
W100	1055		7'9"	47'6"	29'10"	Fine yellow & brown sand alot of very small pebbles	
W101	1056		9'3"	41'6"	36'7"	Wet greyish clay - TPH smell	
W102	1057		8'6"	37'6"	45'2"	wet greyish sandy clay, TPH smell	
W103	1058	↓	7'	36'0"	51'2"	wet greyish sandy clay, TPH smell	↓

Ref. Pt. G: Fence post near bldg T2291

Ref. Pt. A: Telephone pole

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 1-5-95 1129 Received by (dd/tt): [signature] 1138

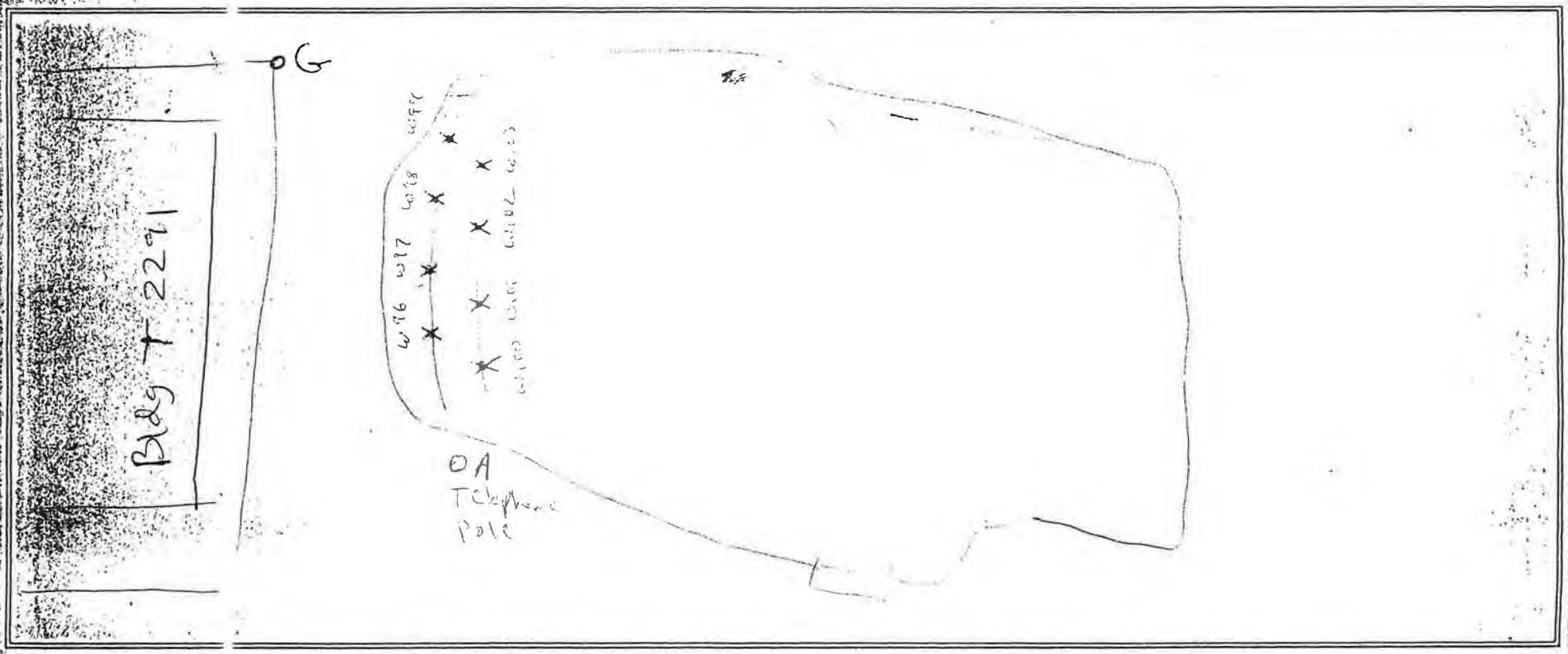
Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 1.5 95

Site Name: AREE 63DE



Comments/Observations:

not to scale

Prepared by: MRB

Site: Ft. Devens, MA Location No.: AREE63BE Date: 1.5.95 GC Analyst: TPH Analyst: MRL 1,3D

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID SBAR63BE																		
		W76	W77	W78	W79	W100	W101	W102	W103	W104										
TRPH	500 ppm	ND	ND	ND	ND	ND	521	111	1114	1209										
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 2

Date: 1.5.94 Site Name: AREA 63BE

Weather: Sunny, cold Samplers: BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt A	Coordinates Ref. Pt G	Sample Description	# of Bottles
SB/A63BE-W104	1953	G	11'½'	73'3"	82.0"	greyish sandy clay, mod strong TPH smell	1 X 40ml VOA

Ref. Pt. A: Telephone pole near bldg 2294

Ref. Pt. G: Fence Post near bldg T2291

Map Attached: Yes No

Sample Type: Screening Confirmation Disposal/Characterization

Laboratory Destination: Onsite Lab ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 1.5.95 1504 Received by (dd/tt): [signature] 1504 1.5.95

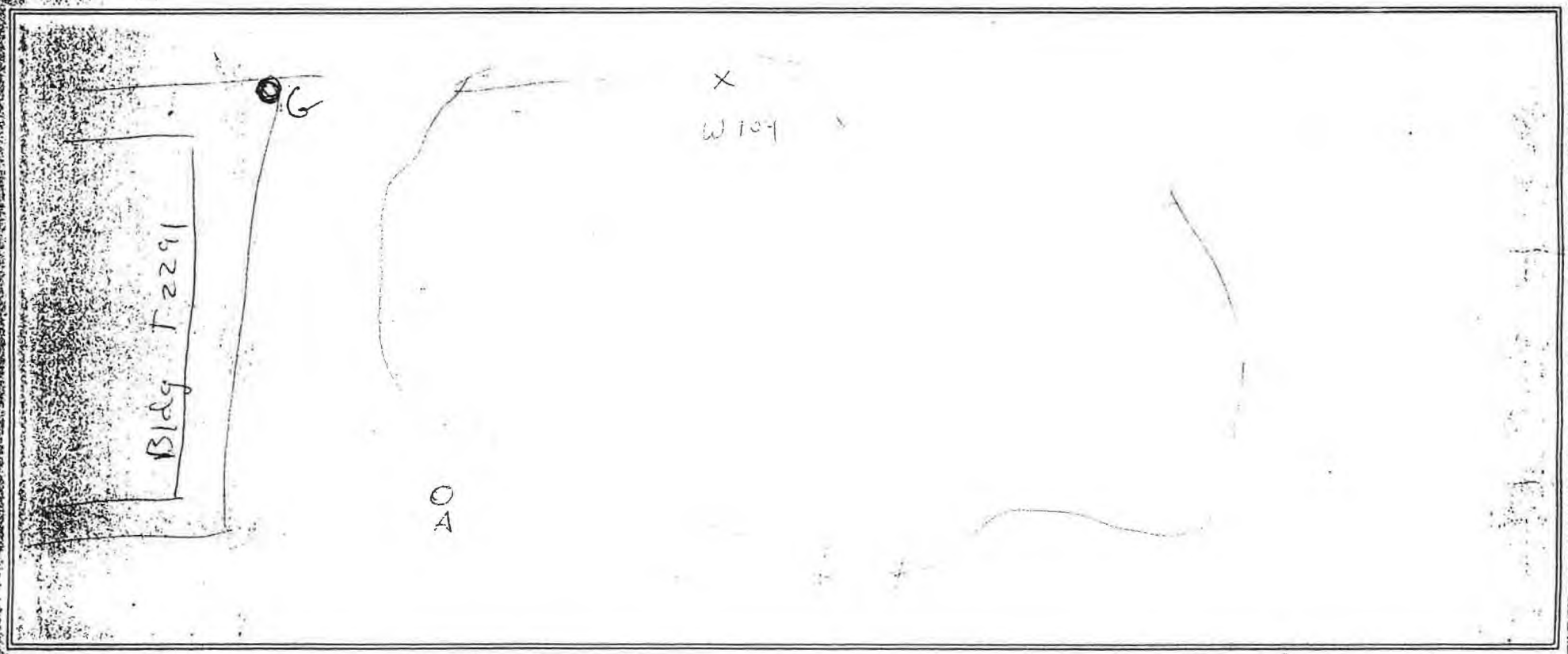
Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 1.5.95

Site Name: ARFF63BE



not to scale

Comments/Observations:

Bldg 2299

Prepared by: MCB/BD

Site: Ft. Devens, MA Location No.: AREE63BE Date: 1.5.95 GC Analyst:

TPH Analyst: MRB/BD

Method 8080

Sample ID

Concentration (mg/kg)	Action Level																			
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			

Percent Recovery																			
2,4,5,6-tcmx																			
decachlorobiphenyl																			

Method 418.1

Sample ID SBAR63BE

Concentration (mg/kg)	Action Level	W76	W77	W78	W79	W100	W101	W102	W103	W104										
TRPH	500 ppm	ND	ND	ND	ND	ND	[illegible]	[illegible]	1914	1209										
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 3

Date: 1·6·95 Site Name: AREE63BE

Weather: Partly Cloudy, windy, cold, Samplers: BD/MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt A	Coordinates Ref. Pt 6	Sample Description	# of Bottles
SBAR63BE W105	1217	G	9'3"	69'2"	44'6"	~~yellow~~ brown sandy clay, few small pebbles	1 x 40ml VOA
W106	1222		9'3"	71'3"	55'0"	yellow brown sandy clay, black spots, TPH smell	
W102	1225		9'0"	73'5"	64'4"	greyish clay, strong TPH smell, lots small pebble	
W108	1229		9'3"	76'0"	73'3"	greyish clay, strong TPH smell	
W109	1233		8'9"	80'0"	85'0"	mostly small pebbles with some ~~coarse~~ orange sand	
W110	1224		5'9"	77'1"	56'11"	Light brown fine grained sand, moist	
W111	1220		5'8"	78'11"	63'4"	" "	
W112	1222	↓	5'8"	80'0"	73'6"	" "	↓

Ref. Pt. A: telephone pole

Ref. Pt. 6: Fence post

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): DRBlom 1·6·95 1322 Received by (dd/tt): DRBlom 1·6·95 1322

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 2 of 3

Date: 1.6.95 Site Name: AREE63BE

Weather: Samplers: BD/MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.A	Coordinates Ref. Pt.G	Sample Description	# of Bottles
W113	1243	G	10'6"	72'10"	65'7"	grey/ish brown sand, STRONG TPH smell, small pebbles	1X40ml VOA
B32	1230	↓	11'4"	65'10"	68'0"	moist grey clay, TPH smell	↓
B33	1232	↓	11'4"	63'9"	57'10"	yellowish sandy clay, slight TPH smell	↓
B34	1234	↓	11'4"	60'6"	49'6"	wet brown clayey SAND slight TPH odor	↓

Ref. Pt. A: telephone pole

Ref. Pt. G: Fence Post

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

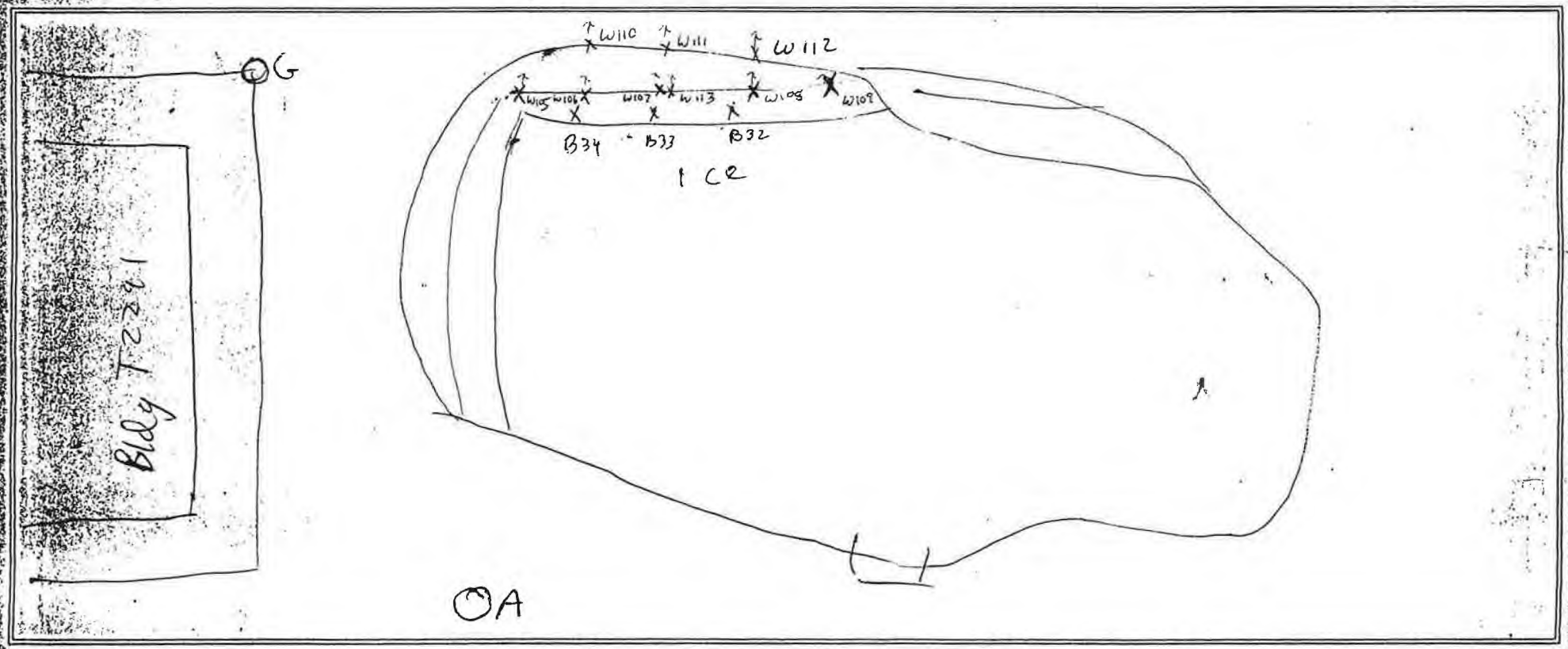
Relinquished by(dd/tt): DRBlen 1.6.95 1322 Received by (dd/tt): DRBlen 1.6.95 1322

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Fort Devens - Project #16208

Date: 1.6.95

Site Name: AREE 63BE



Comments/Observations: Not to scale

Bldg 2299

Prepared by: MRB

Site: Ft. Devens, MA Location No.: AREE63BE Date: 1.6.95 GC Analyst: TPH Analyst: MRB/BD Page 1 of 1

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SBAR63BE																	
		W105	W106	W107	W108	W109	W110	W111	W112	W113	B32	B33	B34							
TRPH	500 ppm	ND	1436	5458	1589	123	ND	145	ND	5973	671	365	ND							
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 1-9-95 Site Name: AREA 63 BE

Weather: COOL, PARTLY CLOUDY Samplers: BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SBAR63BE W117	1345	G	11'			Grey clay	1x40 ml vom

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): [signature] 1-9-95 1345 Received by (dd/tt): [signature] 1-9-95 1345

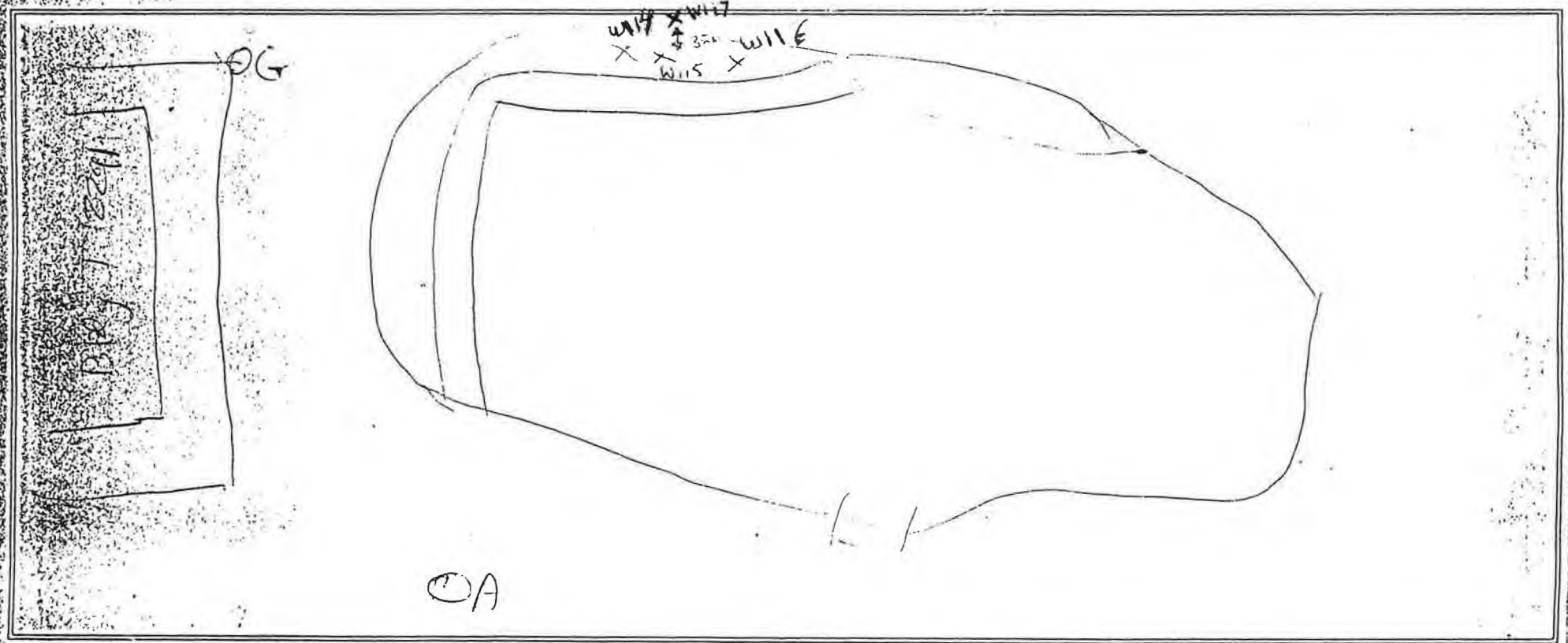
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 1.9.95

Site Name: AREA 63 BE



Comments/Observations:

not to scale

Prepared by: Bill Dl

Site: Ft. Devens, MA Location No.: AREE63BE Date: 1.9.95 GC Analyst: TPH Analyst: MRB / BP

Method 8080

Sample ID

Concentration (mg/kg)	Action Level																			
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			

Percent Recovery

2,4,5,6-tcmx																			
decachlorobiphenyl																			

Method 418.1

Sample ID SBAR63BE

Concentration (mg/kg)	Action Level	W114	W115	W116	W117															
TRPH	500 ppm	2000	2728	2239	1607															
	500 ppm																			
	500 ppm																			

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 1-9-95 Site Name: AREA 63 BE

Weather: cool, partly cloudy Samplers: RD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SB AR63 BE W114	0940	G	11'0"	79'	65'	Gray sandy clay, pungent petrol odor	1 x 40 ml VOA
W115	0945	G	10'5"	80'	71'	"	"
W116	0948	G	9'0"	82'	75'	"	"

Ref. Pt. A: Telephone pole

Ref. Pt. G: Fence Post

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 1-9-95 Received by (dd/tt): [signature] 1-9-95 1005

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

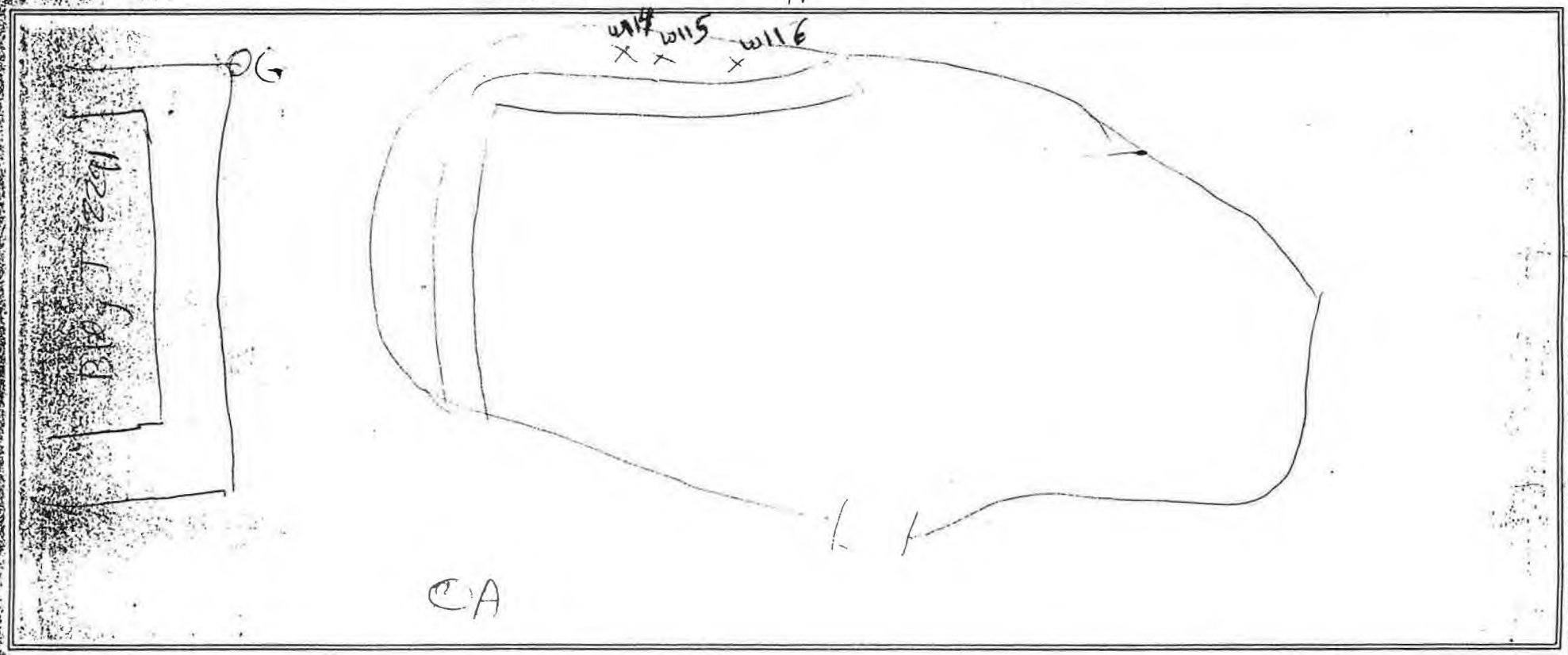
Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 1.9.95

Site Name: AREA 63 BF

W107 - 5958 ppm W113 5973



Comments/Observations:

Bldg 299

not to scale

Prepared by: Bill Ul

Site: Ft. Devens, MA Location No.: APERB63BIE Date: 1.9.95 GC Analyst: TPH Analyst: MR/BP

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																	
Aroclor 1260	2 ppm																		
chlordane	1 ppm																		
Percent Recovery																			
2,4,5,6-tcmx																			
decachlorobiphenyl																			

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID	SBAR63BI																
		WLY	WL5	WL6	WL7														
TRPH	500 ppm	2000	2728	2239	1607														
	500 ppm																		
	500 ppm																		

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 12.19.94 Site Name: AREE63BE Dirty Pile 2 Pg. 1 of 2

Weather: partly cloudy mild Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description (moist)	# of Bottles
EX63BEDP2A	1401	C	18"-24"			yellowish sandy gravelly clay, TPH smell, lots of cobble	1X1L
EX63BEDP2B	1419	↓	↓			grey clay & yellow sand, some cobble	↓
EX63BEDP2C	1435					dry yellow sand & wet grey clay, lots of cobble	
EX63BEDP2D	1452					wet clay & yellow sand, lots of cobble TPH smell	
EX63BEDP2AG	↓	G	1356 ↓			Grey clay & yellowish sand TPH smell, cobble moist	2X40ml VOA

All composites are 5 point

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: Screening Confirmation (Disposal/Characterization)

Laboratory Destination: Onsite Lab ASC - coc # 10757 USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No) RCRA metals

---

On-site Laboratory Chain of Custody/Request for Analysis

TPH Full TCLP RCRA chlor, PAH total VOA, PCB/Pest

Requested Testing: TPH BTEX Chlordane PCBs Other See COC

Relinquished by(dd/tt): MRBlan 12.19.94 1530 Received by (dd/tt): MRBlan 12.19.94 1530

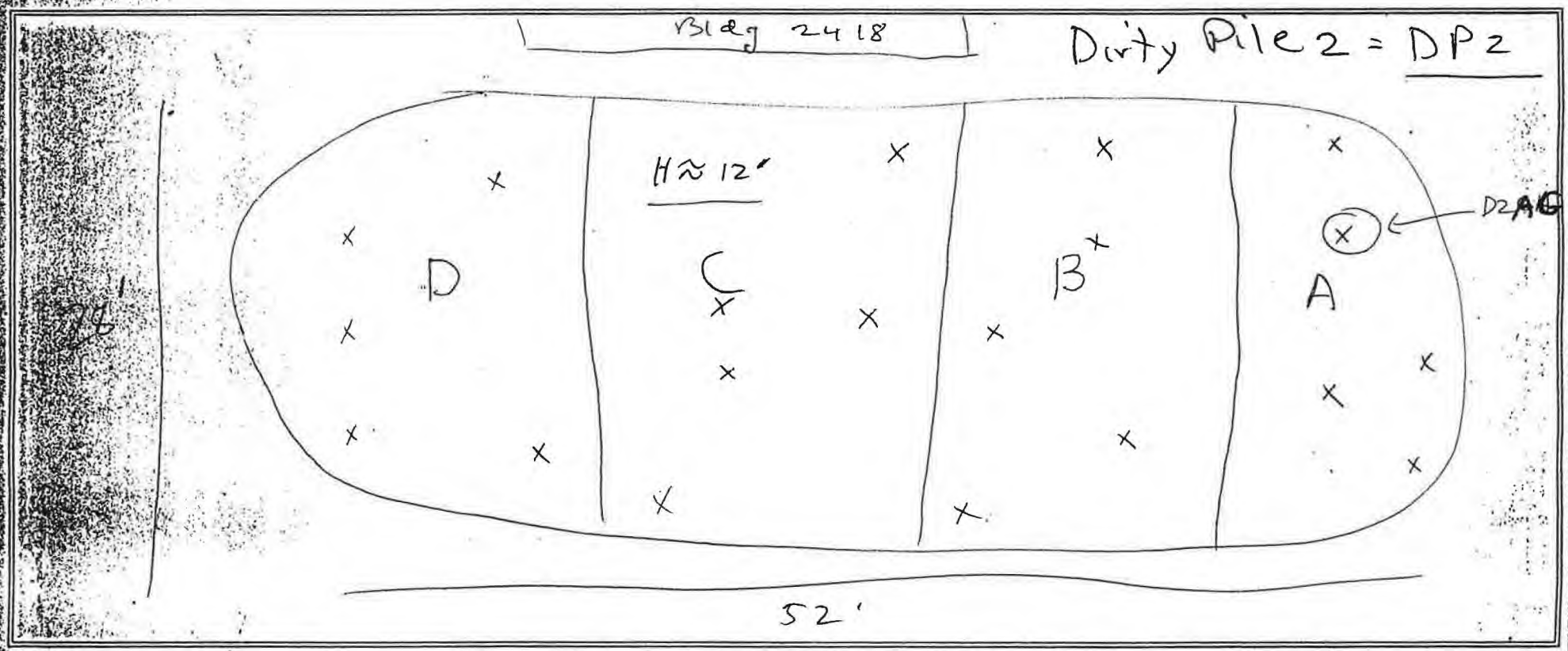
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 12/19/94

Site Name: AREA63BE



Comments/Observations: EX 63BE DP2 A, B, C, D and EX 63BE D2AG

Not to scale

Prepared by: MRB

Soil Sample Collection Log
Fort Devens - Project #16208

e: 12.19.94 Site Name: AREE 63 BF Pg. 1 of 2

Weather: Partly Cloudy mild Samplers: Duty Pile 4 MMB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
EX63BEDP4A	1518	C	18'-24"			Grey clay, sandy soil, lots of cobble	1x1L
EX63BEDP4B	1507	C	" "			Mostly brown sand, some grey clay	↓
EX63BEDP4AG	1511	G	" "			Grey clay	2x40ml VOA

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: Screening Confirmation (Disposal/Characterization)

Laboratory Destination: Onsite Lab ASC - coc # 107758 USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

TPH, Full TCLP RCRA Chem

Requested Testing: TPH BTEX Chlordane PCBs Other See COC PAH

Relinquished by(dd/tt): 12.19.94 1530 Received by (dd/tt): 12.19.94 1530

- Total VOA
- PCB/Pest
- RCRA metals

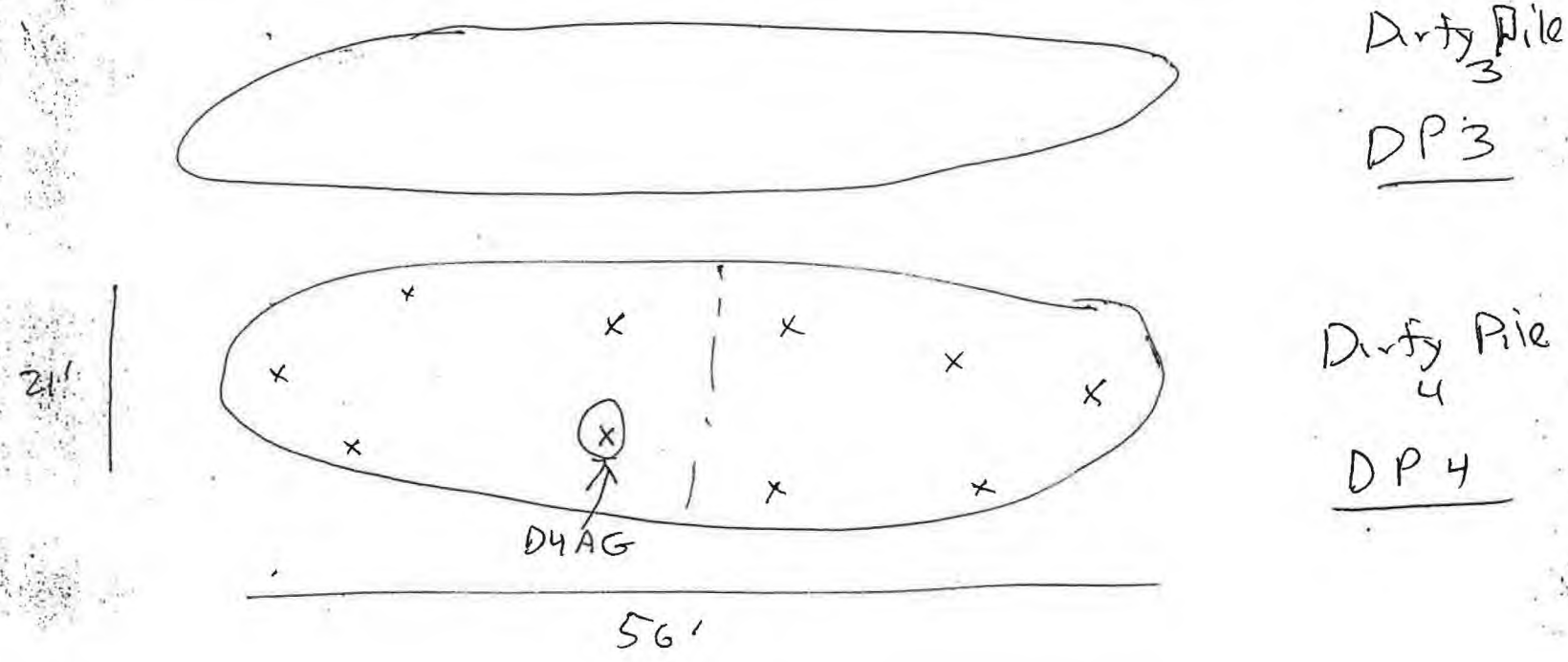
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 12.19.94

Site Name: AREE 63BE



Comments/Observations: Not to scale

Prepared by: MRB

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 2

e: 12.20mB.94 Site Name: AREE 63BE Dirty Pile 1

Weather: Sunny, cool Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
EX 63 BEDP1A	1142	C				med brown sandy soil, lots of cobble	1X1L
EX63BEDP1B	1120	C				Lt Brown clayey S2d, lots of cobble	↓
EX63BEDP1C	1112	C				Lt Brown clayey sand, lots of cobble	↓
EX63BEDUP	1127	G				Dark Brown sand bits of Gravel	2X 40ml VOA

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: Screening Confirmation (Disposal/Characterization)

Laboratory Destination: Onsite Lab ASC - coc # 107769 USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Full TCLP RCRA CHAR TPH PAH -PCB/Pest Total VOA RCRA Metals

Requested Testing: TPH BTEX Chlordane PCBs Other

Relinquished by(dd/tt): DRBlan 12.20.94 1157 Received by(dd/tt): DRBlan 12.20.94 1157

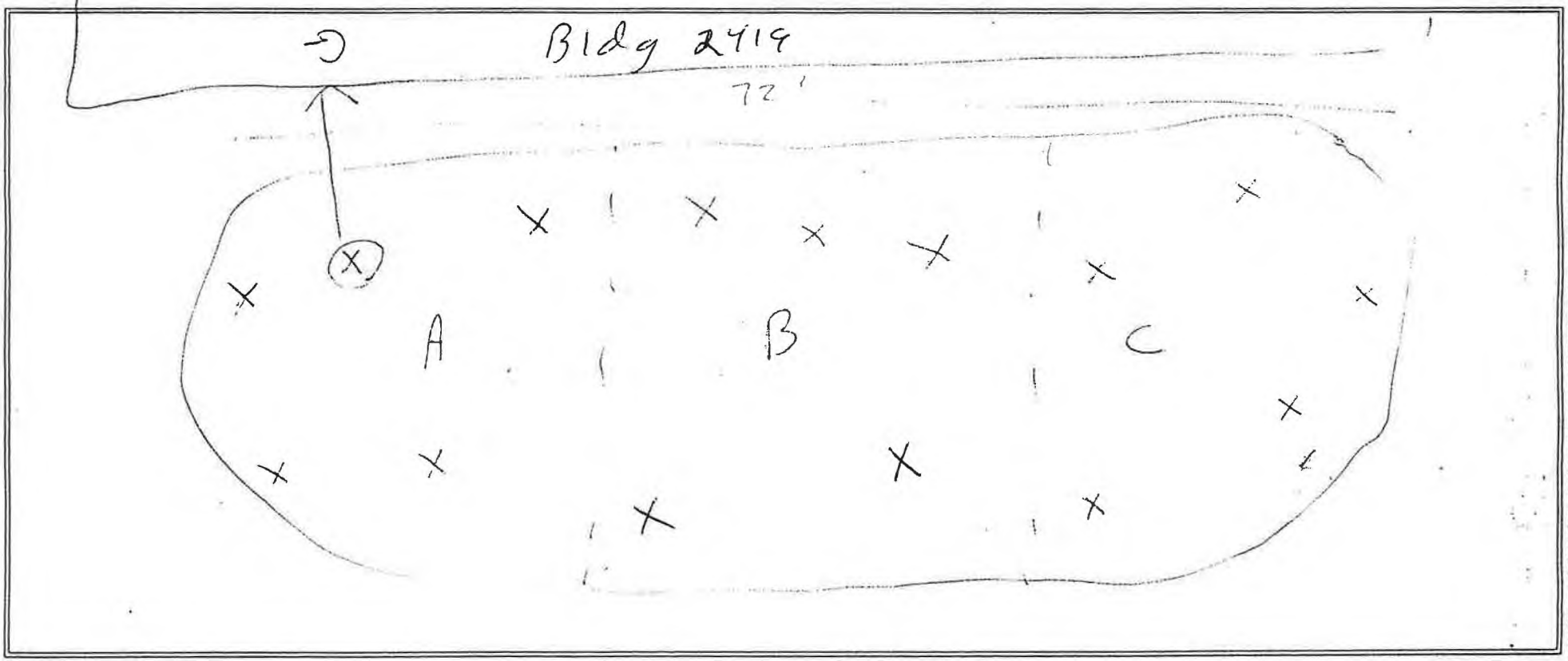
Relinquished by(dd/tt):_____ Received by(dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Pg. 2 of 2

Date: 12.20.94

Site Name: AREE63BE Dirty Pile 1 - DP1



Comments/Observations: not to scale

Prepared by: MVCB

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 12.20.94 Site Name: AREE63BE Dirty Pics Pg. 1 of 2

Weather: Sunny, cool Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
EX63BEDP3A	1357	C				Lt Brown F [redacted] clay with Sand Lots of Cobble	1 X 1L
EX63BEDP3B	1415	C				moist Clayey sand Lot cobble Strong TPH odor	↓
EX63BEDP3AG	1341	G				Goldish Clayey sand, Lots of cobble, TPH smell	2 X 40ml VOA

Mostly grey Clay wet

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: Screening Confirmation (Disposal/Characterization)

Laboratory Destination: Onsite Lab (ASC) coc # _____ USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

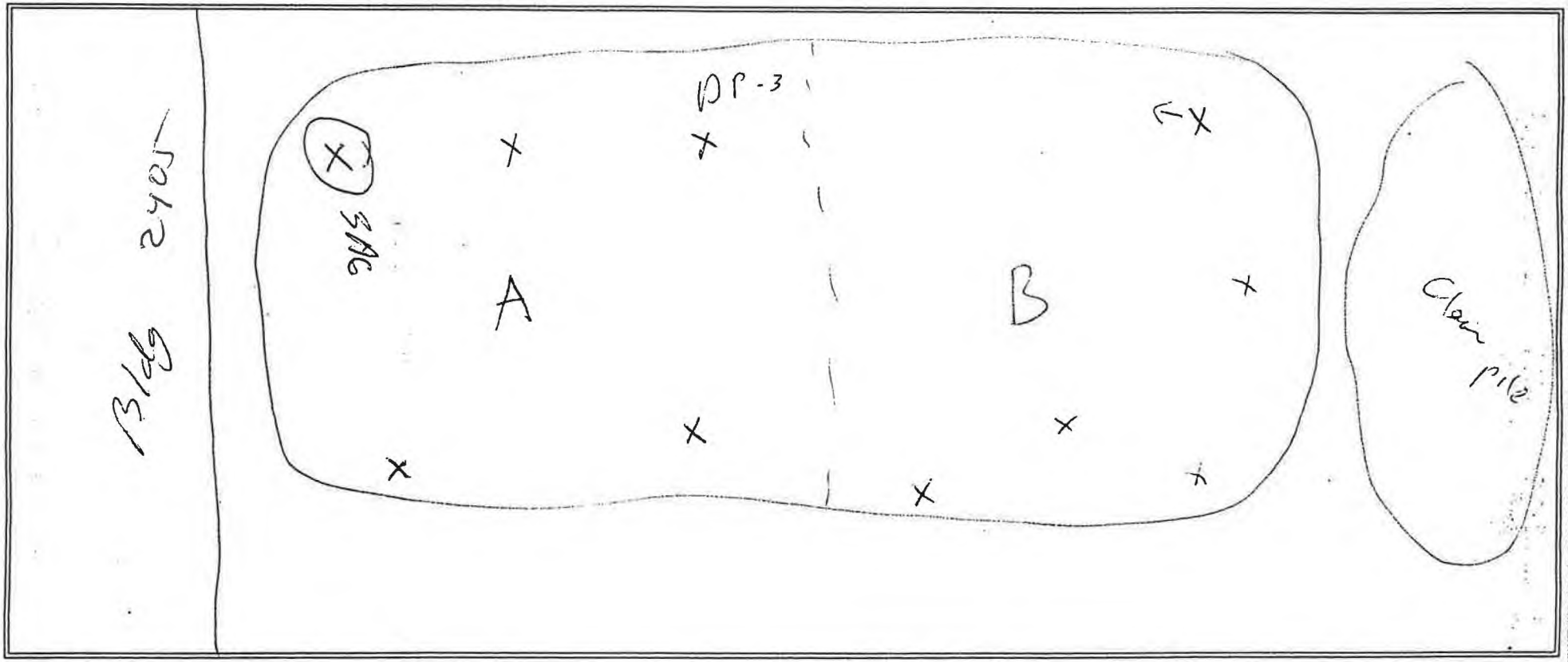
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 12.20.94

Site Name: AREE 63BE

Dirty Pile 3



Comments/Observations:

MRB

Not to Scale

Prepared by: _____

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 2 of 2

Date: 12.19.94 20 MRB

Site Name: AREE63BE Dirty piles

Weather: Sunny, cool

Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
EX63BEDP5A	0958	C	18-24"			Grey sand & lt. brown clay mixture lots of cobble	1X1L
EX63BEDP5B	1030	C	↓			Small amt of grey clay, mostly sand & cobble	↓
EX63BED5AG	0930	G	18"			Grey clay & yellowish brown sand, lots of cobble, TPH smell	2x40ml VOA
EX63BEDUP	0958	C	18-24"			Dup of EX63BEDP5A	1X1L
EX63BEDUPG	0930	G	18"			Duplicate of EX63BED5AG	2x40ml
EX63BETRP	0958	C	18-24"			TRIPLICATE of EX63BEDP5A	5X40Z
EX63BETRPG	0930	G	18"			Triplicate of EX63BED5AG	2x40ml

Ref. Pt.___: ______________________

Ref. Pt.___: ______________________

Map Attached: (Yes) No

Sample Type: Screening Confirmation (Disposal/Characterization)

Laboratory Destination: Onsite Lab ASC - coc # 107768 USACE- coc # 107770

Duplicate Taken: (Yes) No Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane (PCBs) Other: RCRA metals, Total VOA, Full TCLP, RCRA CHAR, PAH, Pest

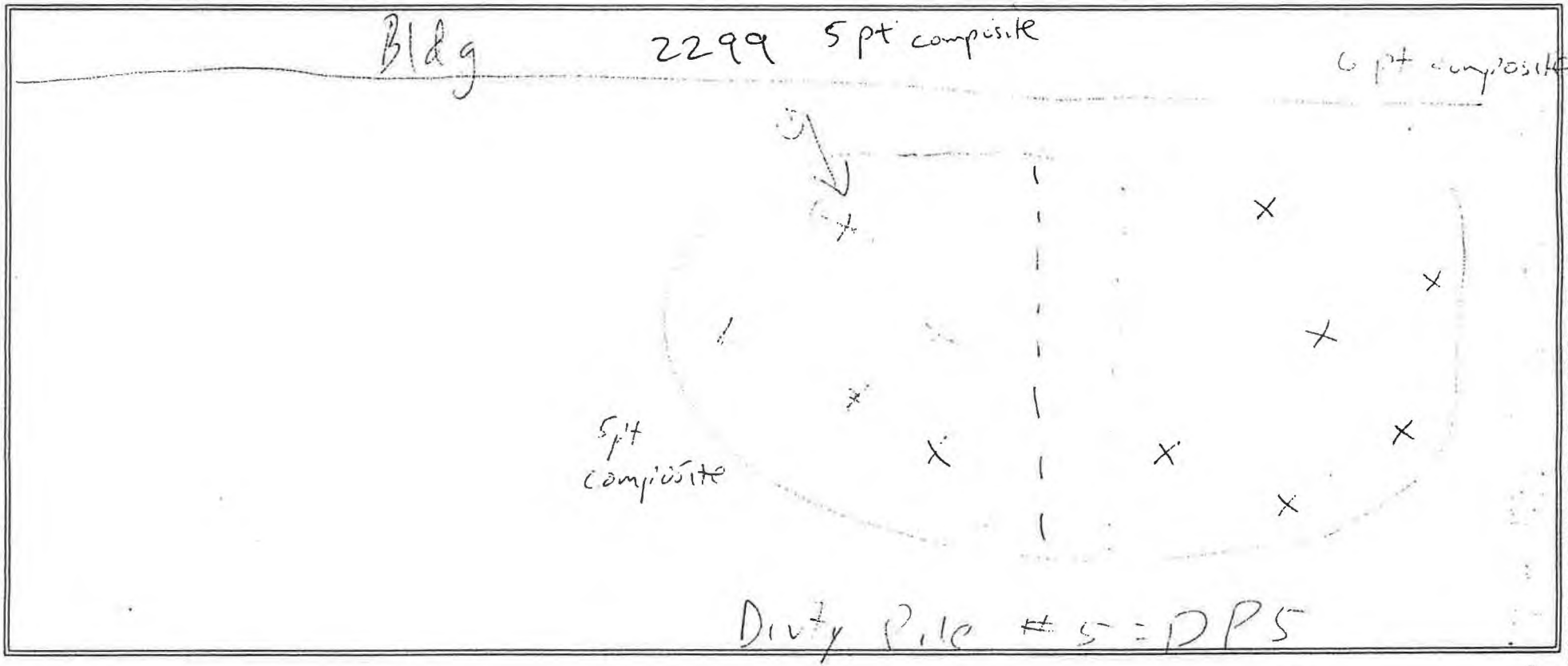
Relinquished by(dd/tt): [signature] 12.20.94 1042 Received by (dd/tt): [signature] 12.20.94 1042

Relinquished by(dd/tt): ______________________ Received by (dd/tt): ______________________

Sample Location Map
Fort Devens - Project #16208

Date: 12.2094

Site Name: AOC EE63BE



Comments/Observations:

not to scale

Prepared by: [illegible]

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 12.21.94 Site Name: AREE G3BE Dirty Pile 6 Pg. 1 of 4

Weather: Sunny, mild Samplers: MRB/JD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles	
EX63BEDP6A	1110	C	18"-24"		MRB	Lots of wet clay, little sand, w cobble	1X1L	A
EX63BEDP6B	1101					Clay and sand lots of cobble, TPH odor		
EX63BEDP6C	1059					med Brown sandy soil, lots of small cobble		
EX63BEDP6D	1057					med brown sand w little clay, lots of cobble		
EX63BEDP6E	0959					yellowish brown clayey sand, cobble, TPH smell		
EX63BEDP6F	0909					Lt brown sand w ~~clay~~ lots of cobble, little clay		
EX63BEDP6G	0832					mix of golden brown sand & grey clay, cobble		A
EX63BEDP6H	0850	↓	↓			med brown sand w clay, lots of cobble, moist	✓	

Ref. Pt.___: N/A

Ref. Pt.___:

Map Attached: (Yes) No

A - Take grabs

Sample Type: Screening Confirmation (Disposal/Characterization)

Laboratory Destination: Onsite Lab ASC - coc # 107771 USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Full TCLP RCRA chem PAH RCRA metals

Requested Testing: (TPH) BTEX Chlordane PCBs/Pest Other_____

Relinquished by(dd/tt): S M Blean 12.21.94 1139 Received by(dd/tt): S M Blean 12.21.94 1139

Relinquished by(dd/tt):_____ Received by(dd/tt):_____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 12.21.94 Site Name: AREE63BE Dirty Pile 6

Weather: Sunny/Mild Samplers: MRB/JD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
EX63BEDP6I	0930	C	18-24"			yellowish clay/ some sand & cobble	1X1L
J	0915	↓	↓			wet clay w/ sand, lots of cobble	↓
K	0900	↓	↓			Grey with yellow clay, little yellow sand, cobble	1X1L
L	0828	↓	↓			Dark brown sand w clay, lots of cobble	↓
EX63BED6AG	1104	G	18"			Lt Br sandy clay, TPH smell	2x4oz
~~BG~~ GG	0835	↓	18"			Gold sand & grey clay, some cobble	2x4oz
KG	0851	↓	18"			grey clay, cobble, little gold sand	2x4oz

★ Take grabs

Ref. Pt.___: NA

Ref. Pt.___:

Map Attached: (Yes) No

Sample Type: Screening Confirmation (Disposal/Characterization)

Laboratory Destination: Onsite Lab ASC - coc # 107771 107772 USACE- coc #________

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane (PCBs/Pest) Other Full TCLP, RCRA Char, PAH, RCRA metals, Total Volatiles

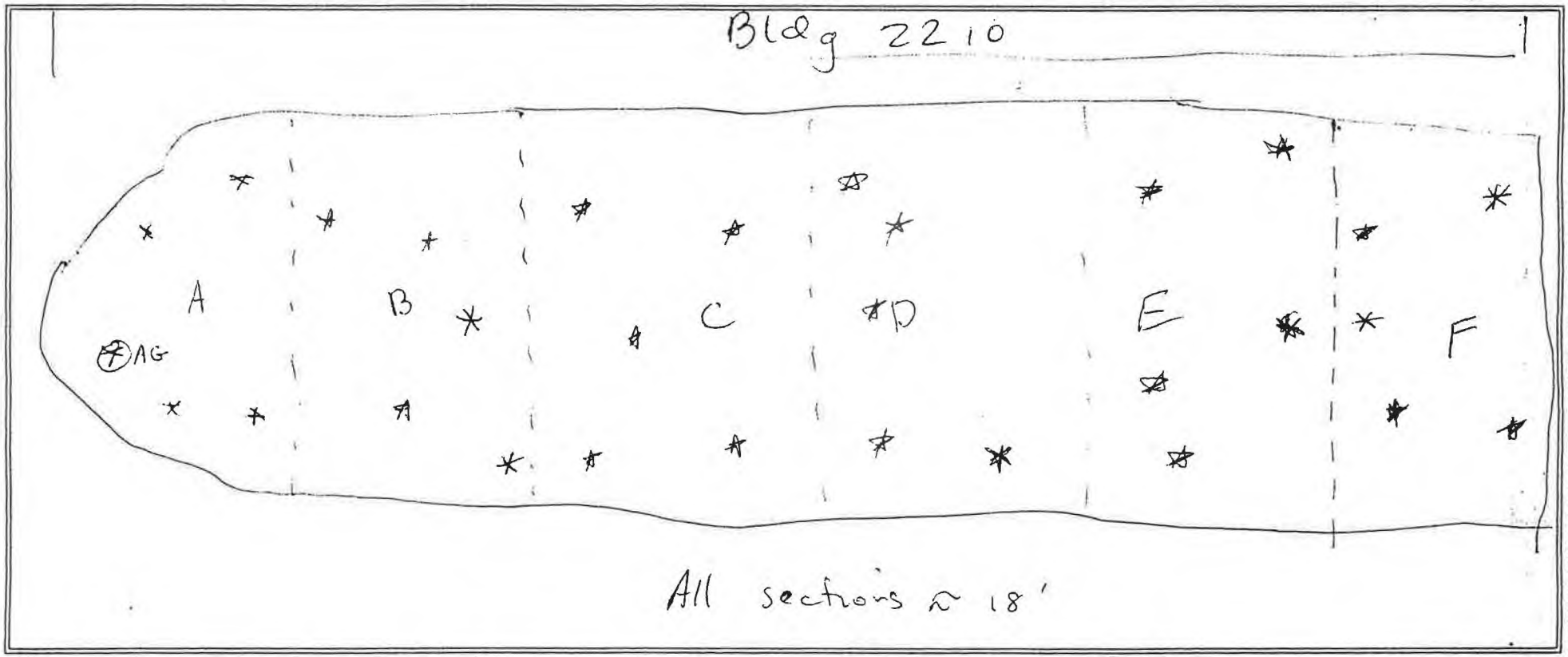
Relinquished by(dd/tt): EABlem 12.21.94 1139 Received by (dd/tt): EABlem 12.21.94 1139

Relinquished by(dd/tt):________ Received by (dd/tt):________

Sample Location Map
Fort Devens - Project #16208

Date: 12-21-94

Site Name: AREE 63BE
Dirty Piles - DPG (sections A-F)



Comments/Observations: Not to scale

★ - Sample point

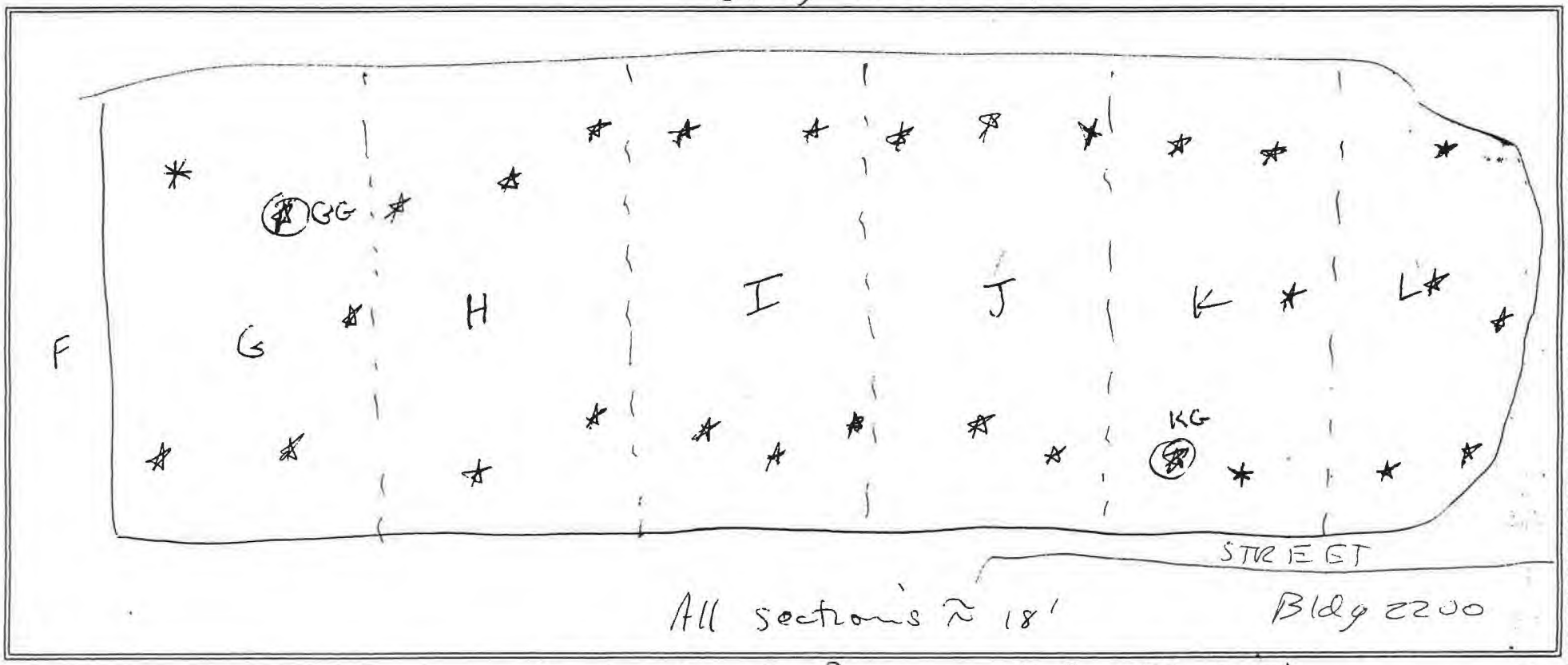
Ⓐ G - sample point & grab point

Prepared by: MRB

Sample Location Map
Fort Devens - Project #16208

Date: 12.19.94

Site Name: AREE 63BE
Dirty Piles - (Sections G - L)



Comments/Observations: Not to Scale

★ - Sample point
(★)G - Sample point # given point

Prepared by: MRB

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 1

Date: 12.21.94 Site Name: AREE 63BE Clean pile 1

Weather: Sunny, warm Samplers: MNB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
EX63BECP1A	1343	C	12-18"			med brown sand, lots of cobble	1 X 40ml VOA
EX63BECP1B	1401	C	12-18"			med Br sand, lots of cobble	
EX63BECP1C	1414	C				med Br sand, lots of cobble	
EX63BECP1D	1452	C				med Lt Brown sand, lots of cobble	
EX63BECP1E	1502	C				med Brown sand, lots of cobble	
EX63BECP1F	1512	C				med Br sand, lots of cobble	
EX63BECP1G	1517	C				"	
EX63BECP1H	1520	C				"	✓

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

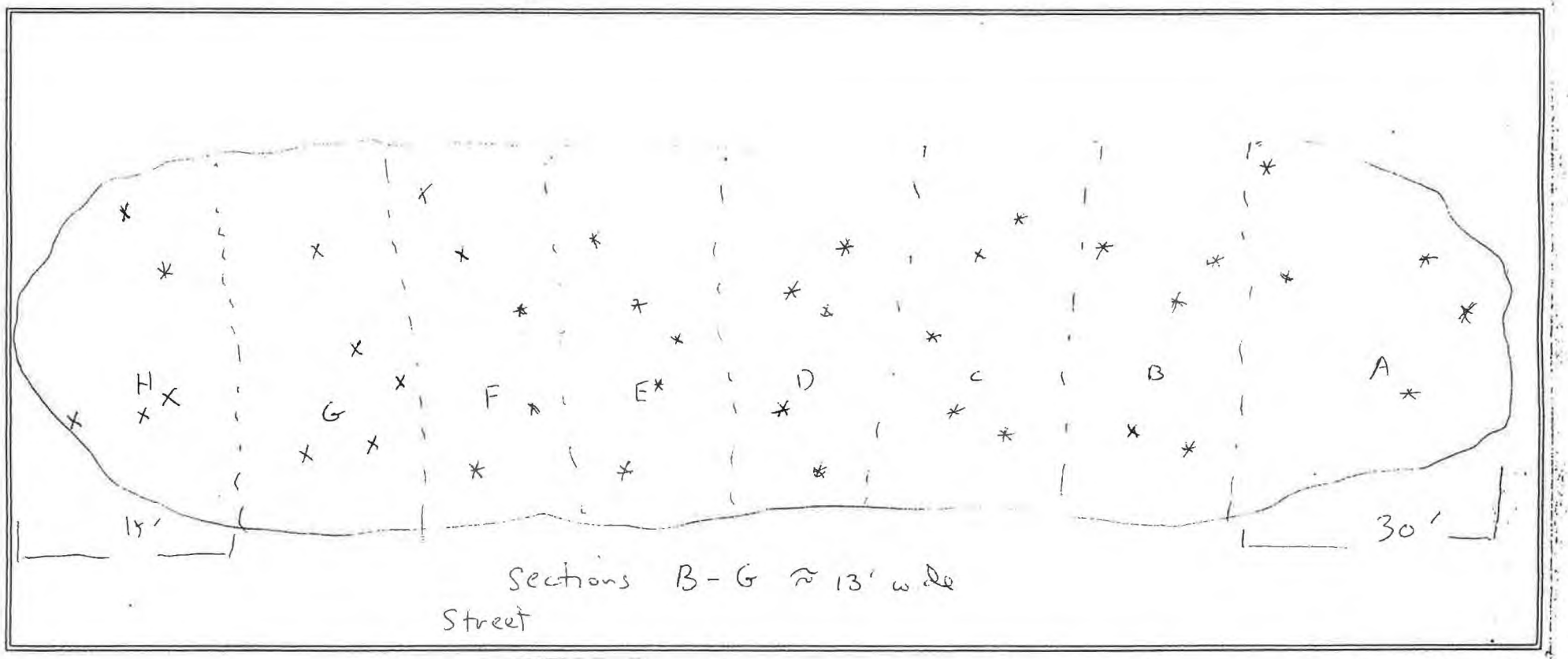
Relinquished by(dd/tt): MNB 12.21.94 1532 Received by (dd/tt): MNB 12.21.94 1532

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 12.21.94

Site Name: AREE 63BE clean Pile 1 : CP1



Comments/Observations: Bldg 2289 not to scale * Sample points

Prepared by: MRB

Soil Sample Collection Log
Fort Devens - Project #16208

AREE

Date: 12-22-94 Site Name: 63BE clean pile 2 Pg. 1 of 2

Weather: Sunny & Mild Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Ref. Pt.	Sample Description	# of Bottles
EXCAVBEC1 2-1	13:14	C	13.24'			Med Brown Sand w/ cobble	1 x 40 ml Amb Glass
2S	12:52	↓	↓	See MAP		" "	↓
2C	12:42					" "	
2D	13:17	↓	↓			" "	↓

Ref. Pt.___: _____

Ref. Pt.___: _____

Map Attached: (Yes) No

Sample Type: (Screening) Confirmation Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

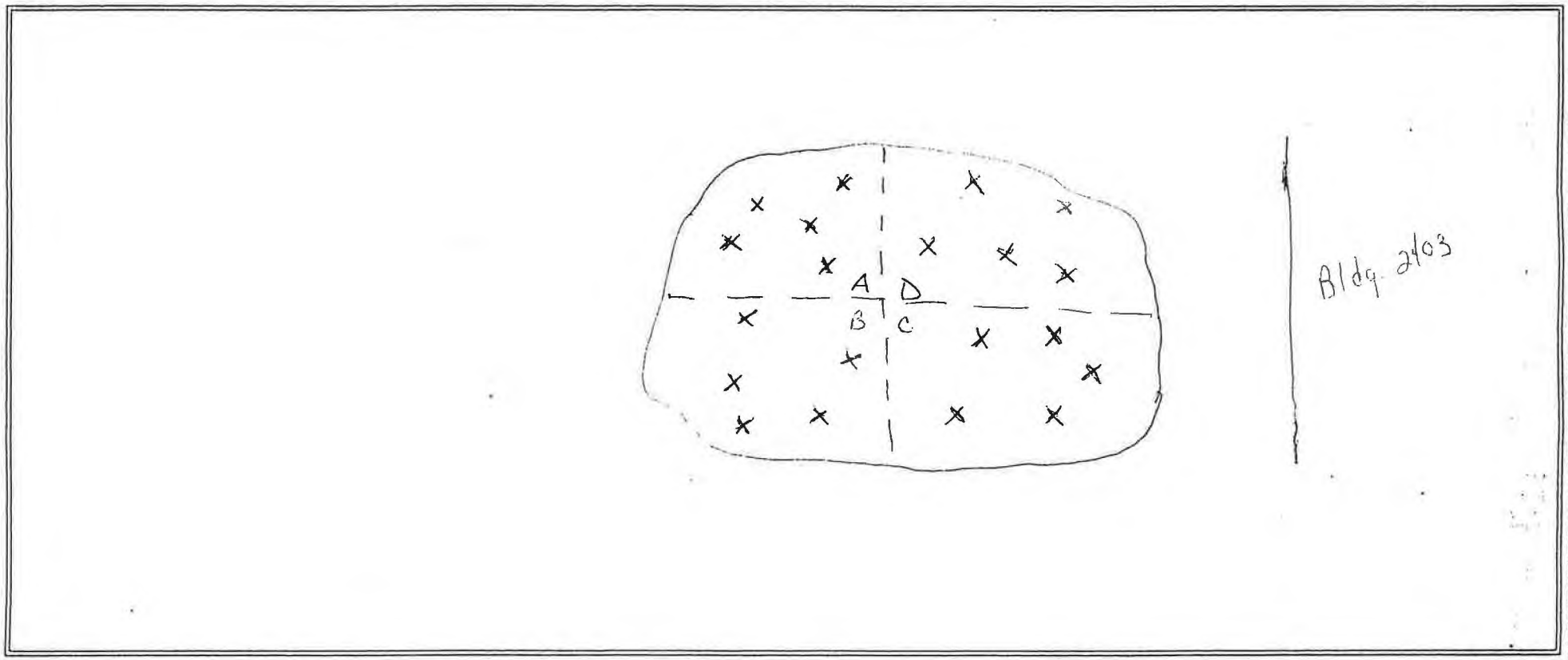
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Date: 12-22-94

Site Name: AREE 63BE



Comments/Observations: X - sample location

Prepared by: M. Quinlan

Soil Sample Collection Log
Fort Devens - Project #16208

Pg. 1 of 3

Date: 1.12.95 Site Name: AREE 63BE

Weather: Cloudy cold Samplers: BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SBAR63BE AC	1500	C				wet sandy clay - 9pt composite	2x 4 oz
SBAR63BE AG	1442	G				wet greyish sandy clay from pt SBAR63BEA1	2x 40 ml VOA

Ref. Pt. A: Telephone pole

Ref. Pt. G: Fence post by Bldg 2291

Map Attached: (Yes) No

Sample Type: Screening (Confirmation) Disposal/Characterization

Note: CoC with 1.13.95 samples

Laboratory Destination: Onsite Lab ASC - coc # 107782 USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) (BTEX) Chlordane PCBs Other BNA

Relinquished by(dd/tt): [signature] 1.12.95 1610 Received by (dd/tt): [signature] 1.12.95 1610

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Collection Log Supplemental Form
Composite Sample Data
Fort Devens - Project #16208

Date: 1.12.95 Site: AREE63BE Sampler: MRB

NOTE: SBAR63BE AG was taken from point A1

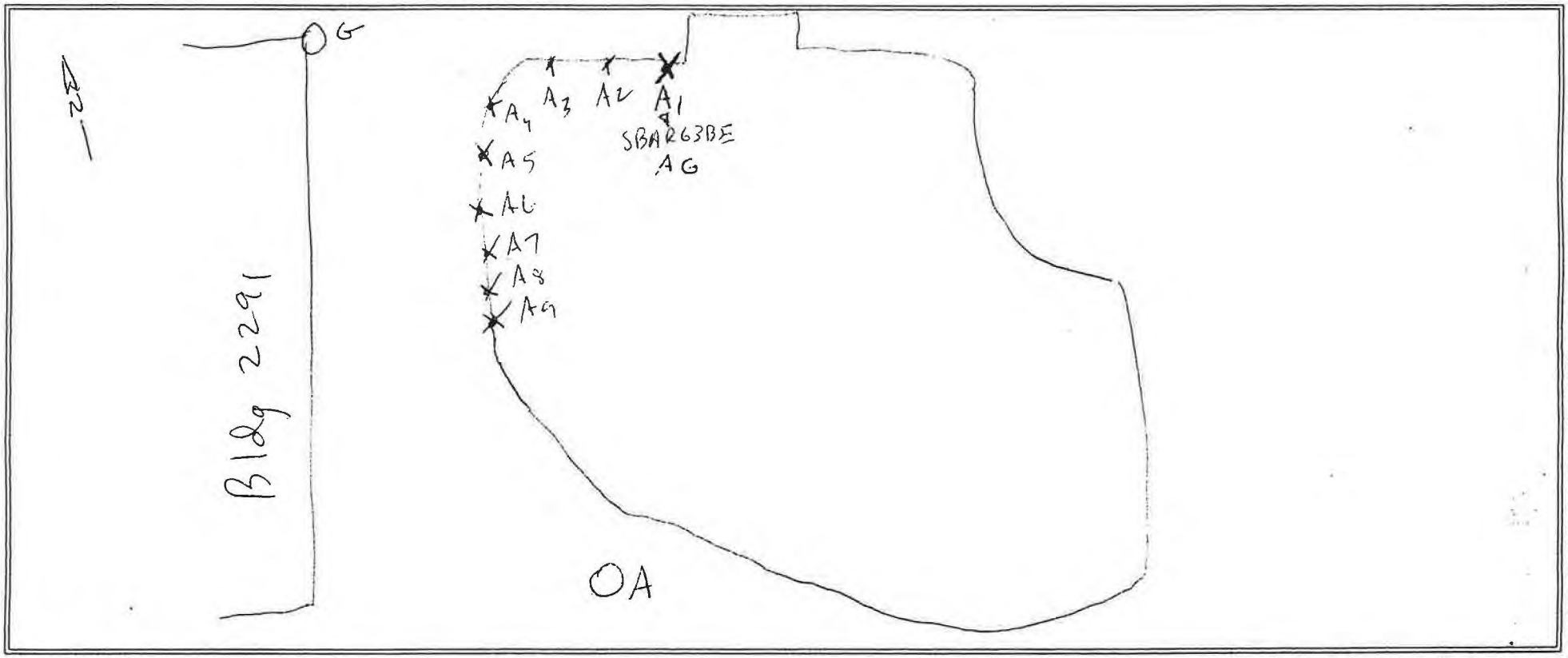
Composite Sample ID	Discrete Sample ID	Coordinates Ref. Pt. A	Coordinates Ref. Pt. G	Sample Description	Depth
SBAR63 BE AC	A1	71'9"	57'11"	wet greyish sandy clay	11'
	A2	70'6"	50'7"	wet brown sand	10'10"
	A3	67'9"	42'8"	brown clay and cobble	9'6"
	A4	61'6"	39'5"	lt brown sand with rocks	9'4"
	A5	56'11"	35'11"	brown sand and grey clay - TPH odor	8'4"
	A6	~~56'11"~~ 50'2"	36'10"	grey clay, brown sand - TPH odor	8'11"
	A7	43'6"	40'2"	wet grey clay, TPH odor	10'0"
	A8	37'0"	41'3"	wet brownish clay	11'1"
	A9	33'3"	44'7"	brown sand	8'11"

Sample Location Map
Fort Devens - Project #16208

Pg. 3 of 3

Date: 1.12.95

Site Name: AREA63BE



Comments/Observations:

Not to Scale

N

Bldg 2299

Prepared by: MRB

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 1-13-95 Site Name: AREE 63BE Pg. 1 of 4

Weather: Sunny, Cool Samplers: BP/MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Ref. Pt.	Sample Description	# of Bottles
SBAR63BE BC	1200	C				6 pt composite, tan sand, silty mud slurry, rocks	2x4oz
SBAR63BE BG	1205	G				Tan clayey sand Grab from SBAR63BEB1	2x40ml VOA
SBAR63BE CC	1300	C				7pt composite, tan sand mud slurry w some rocks	2x4oz
SBAR63BE CG	1305	G				tan sand w rocks Grab from SBAR63BEC1	2x40ml VOA
SBAR63BE DC	1300	C				wet rocky sand 6 pt composite	2x4oz
SBAR63BE DG	1210	G				Brown large grained sand from SBAR63BED1	2x40ml VOA
SBAR63BE EC	1330	C				Brown, grey mud slurry, 7pt composite	2x4oz
SBAR63BE EG	1335	G				Grey Clay TPH odor from SBAR63BEE1	2x40ml VOA

Ref. Pt. A: Telephone pole

Ref. Pt. G / H: Fence post near Bldg 2291 Corner of Bldg 2299

Map Attached: (Yes) No

Sample Type: Screening (Confirmation) Disposal/Characterization

Laboratory Destination: Onsite Lab ASC - coc # ~~10784~~ 10782 MRB USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: Yes (No)

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) (BTEX) Chlordane PCBs Other total BNA

Relinquished by(dd/tt): MRB 1600 1.13.95 Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 1.13.95 Site Name: AREE63BE

Weather: Sunny, cool Samplers: MRB/BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Ref. Pt.	Sample Description	# of Bottles
SBAR63BE EC	1545	C				Grey mud w ter silty sand slurry, 6pt composite	2x4oz
SBAR63BE EG	1515	G				Grey mud, grab from SBAR63BEE1	2x40ml VOA
SBAR63BE DP	1330	C				Duplicate of SBAR63BEEC	2x4oz
SBAR63BE D4	1335	G				Duplicate of SBAR63BEEG	2x40ml VOA
SBAR63BE TP	1330	C				Triplicate of SBAR 63BEEC	2x4oz
SBAR63BE T4	1335	G				Triplicate of SBAR63 BEEC	2x40ml VOA

Ref. Pt. A: Telephone pole

Ref. Pt. G: Fence post near bldg 2291
H Corner of Bldg 2299

Map Attached: (Yes) No See Composite Sample Data Log

Sample Type: Screening (Confirmation) Disposal/Characterization

Laboratory Destination: Onsite Lab ASC - coc # 107784 USACE- coc # 107788

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) (BTEX) Chlordane PCBs Other TCL BNA

Relinquished by(dd/tt): [signature] 1.13.95 1600 Received by (dd/tt):

Relinquished by(dd/tt): Received by (dd/tt):

Sample Collection Log Supplemental Form
Composite Sample Data
Fort Devens - Project #16208

ate: 1/13/95 Site: AREE63BE Sampler: BD/MRB

telephone pole 11 - 22ft side corner toward street

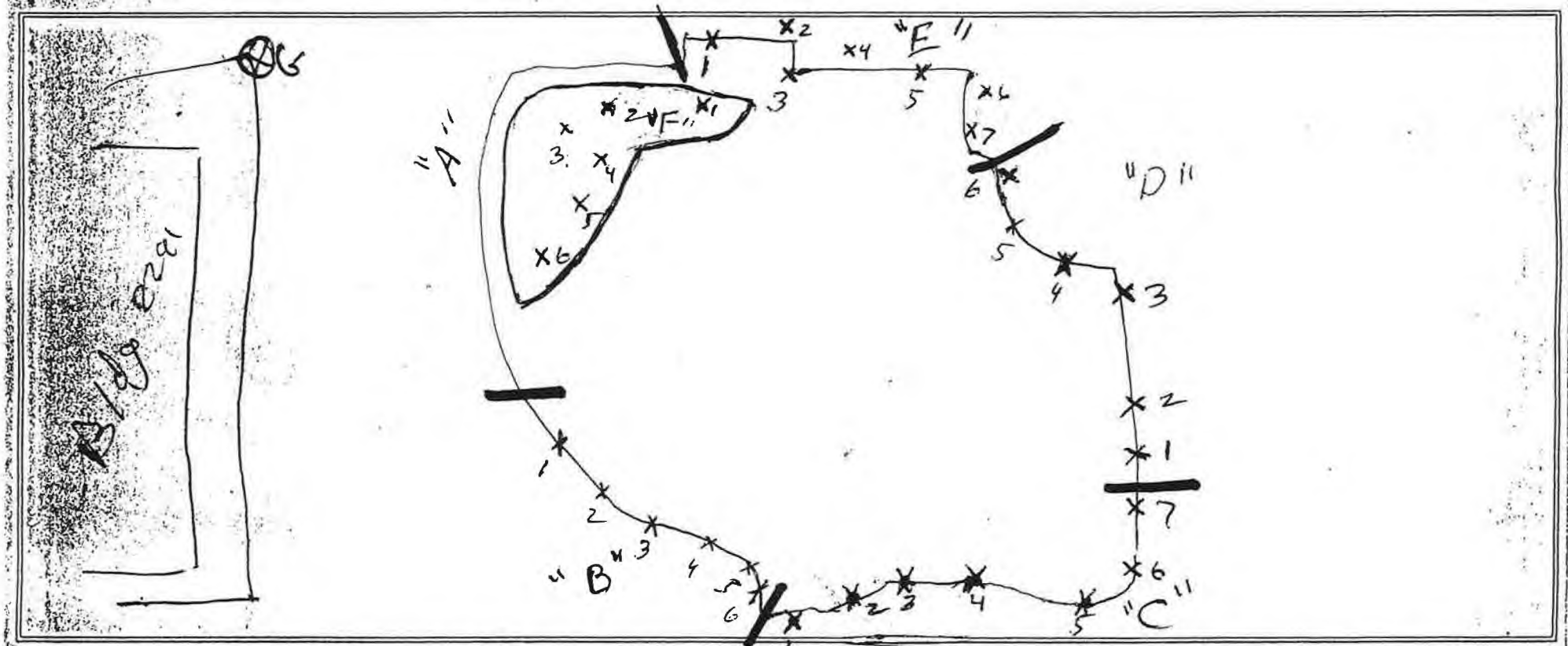
Composite Sample ID	Discrete Sample ID	Coordinates Ref. Pt. A (Feet)	Coordinates Ref. Pt. G (Feet)	Sample Description	
B	1 **	22'6"	116'0"	tan clayey sand	9'0"
	2	14'6"	105'5"	tan clayey sand	8'6"
	3	15'4"	96'0"	tan clayey sand	10'6"
	4	21'0"	82'0"	tan clayey sand	8'6"
	5	21'6"	76'6"	tan clayey sand	6'6"
	6	32'4"	66'3"	tan clayey sand	8'6"
C	1 **	37'4"	51'6"	tan sand w rocks	6'6"
	2	48'10"	50'0"	tan clayey sand	9'6"
	3	55'6"	47'6"	hard brown clayey sand	10'0"
	4	71'6"	33'6"	tan, clayey sand	12'6"
	5	85'0"	23'6"	brown sandy	8'6"
	6	90'0"	31'2"	brown sand	8'0"
	7	90'0"	38'2"	brown silty sand	7'6"
D	1 **	91'6"	47'2"	brown large gravel sand	9'
	2	93'6"	56'5"	lt brown large grained sand, rocks	8'6"
	3	47'2"	68'8"	brown large grained rocks	9'6"
	4	94'0"	77'0"	gravely sand grey clay	9'6"
	5	87'9"	85'2"	grey clay, TPH odor	6'6"
	6	80'9"	82'11"	brown gravely sand	7'6"
E	1 **	78'2"	67'5"	Grey clay, TPH odor	9'6"
	2	82'4"	77'5"	fine orange sand	6'6"
	3	78'1"	78'5"	rocky soil large grain sand	7'
	4	78'6"	84'3"	grey clay sand	9'0"
	5	82'10"	93'4"	coarse gravely sand	7'6"
	6	85'2"	103	brown sand	6'6"
	7	78'6"	97'3"	grey clayey sand gravel	9'6"
F	1 **	72'8"	71'0"	grey mud	11'6"
	2	65'6"	63'0"	tan grey mud	11'6"
	3	60'4"	64'6"	tan sandy clay	12'0"
	4	54'7"	68'7"	grey mud	14'0"
	5	45'6"	63'6"	grey mud	14'0"
	6	42'0"	54'2"	grey mud	14'6"

** Grab sample for BTEX

Sample Location Map
Fort Devens - Project #16208

Date: 1.16-95

Site Name: AREE6BE



Comments/Observations:

Not to Scale

Prepared by: MRB

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 1-16-95 Site Name: AREE 65BE

Weather: Warm, Partly Cloudy Samplers: BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. A	Ref. Pt. G	Sample Description	# of Bottles
SBARG3BE601	1002	G	12'2"	46'2"	110'2"	Brown mud w some rocks	1x40ml VOA
" 602	1008		12'3"	36'3"	100'5"	Brown mud w/ some rocks	
" 603	1013		12'2"	33'4"	93'2"	Brown mud w/ some rocks	
" 604	1017		12'1"	31'10"	82'4"	Brown mud w/ some rocks	
" 605	1019		12'6"	25'7"	84'11"	Brown mud w/some rocks	
" 606	1023		11'1"	28'10"	52'8"	Brown/tan mud w/some rocks	
" 607	1025		11'6"	40'10"	48'3"	Brown/tan mud w/some rocks	
" 608	1028		11'6"	68'6"	79'8"	Brown mud w/some gravel	

Ref. Pt. A: POLE

Ref. Pt. G: FENCE CORNER

Map Attached: (Yes) No

Sample Type: Screening Confirmation Disposal/Characterization

Laboratory Destination: Onsite Lab ASC - coc # 107785 USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: (Yes) No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): [signature] 1-16-95 1130 Received by (dd/tt): [signature] 1-16-95 1130

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Fort Devens - Project #16208

Date: 1-16-95 Site Name: AREE 63SE

Weather: Warm Partly Cloudy Samplers: BO

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. A	Coordinates Ref. Pt. G	Sample Description	# of Bottles
SBARG3SE G09	1033	G	11'6"	75'10"	88'3"	Brown mud w/some grey	1x40-1 VOA
" G10	1040	G	11'6"	76'	94'2"	Brown mud w/ some grey	
" G11	1041	G	12'	72'9"	100'	Brown mud w/some grey	
" G12	1043	G	12'	73'	110'	Brown mud	
" G13	1044	G	12'	86'-1"	130'	Brown mud w/some GLY	
" GC	1045	C	-	-	-	13 Point Composite Brown TAN MUD SLURRY w/rocks	2x40z
" GG	1040	G	11'6"	76'	94'2"	Brown mud w/some grey	2x40-1 VOA

Ref. Pt. A: POLE

Ref. Pt. G: FENCE CORNER

Map Attached: (Yes) No

Sample Type: (Screening) (Confirmation) Disposal/Characterization

Laboratory Destination: (Onsite Lab) ASC - coc # 107785 USACE- coc #_____

Duplicate Taken: Yes (No) Rinsate Taken: (Yes) No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) (BTEX) Chlordane PCBs Other Total BNA

Relinquished by(dd/tt): [signature] 1-16-95 1130 Received by (dd/tt): [signature] 1-16-95 1130

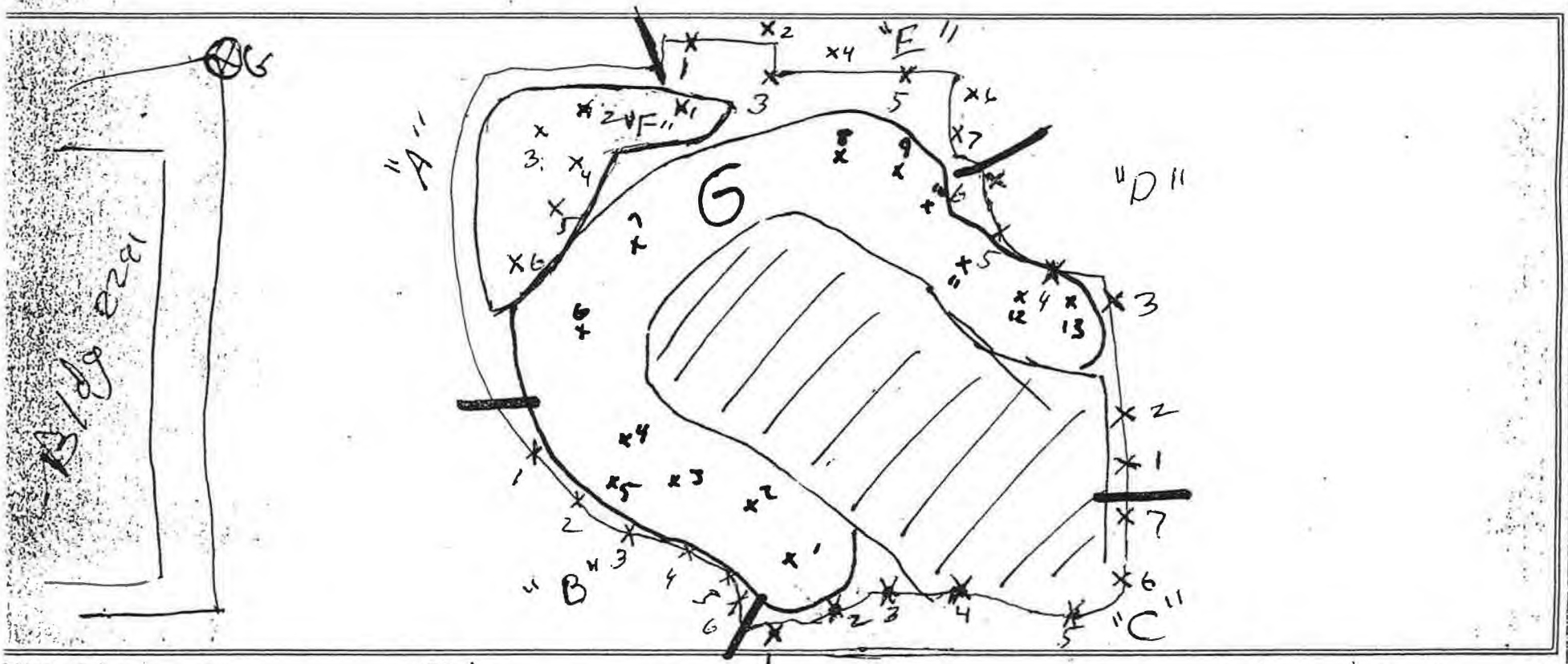
Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Sample Location Map
Fort Devens - Project #16208

Pg. 3 of 3

Date: 1.16-95

Site Name: AREE63BE



Comments/Observations:

Prepared by: MRB

Appendix E

On-site Laboratory Soil Boring Results

OHM Corporation

December 28, 1994

Mr. Mark Applebee
CENED-ED-EH
Bldg. 112 South
424 Trapelo Road
Waltham, MA. 02254

RE: TPH Screening Results
Investigative Soil Borings - AREE 63BE
Contract DACW89-45-D-0506
Fort Devens - Various Sites

Dear Mark:

Attached is a map of the soil borings locations at AREE 63BE and a summary of TPH screening results of samples collected during boring activities. Ten investigative soil borings were installed to determine the lateral extent of petroleum contamination in the subsurface soils at the site, and to assess the potential that other USTs in the area may be contributing to the contamination. In addition to the on-site TPH screening, one sample from each boring was also submitted to an off-site laboratory for TPH analysis by EPA Method 418.1. Five samples were also split with a representative of the MADEP. OHM will provide a more detailed report of the investigation at a later date when the off-site analytical data is received and the investigation is deemed complete.

Please contact me at (508) 772-2275 if you have any questions regarding this letter or the attached information.

Sincerely,

OHM Remediation Services Corp.

Kevin J Mack

Kevin Mack
Project Engineer

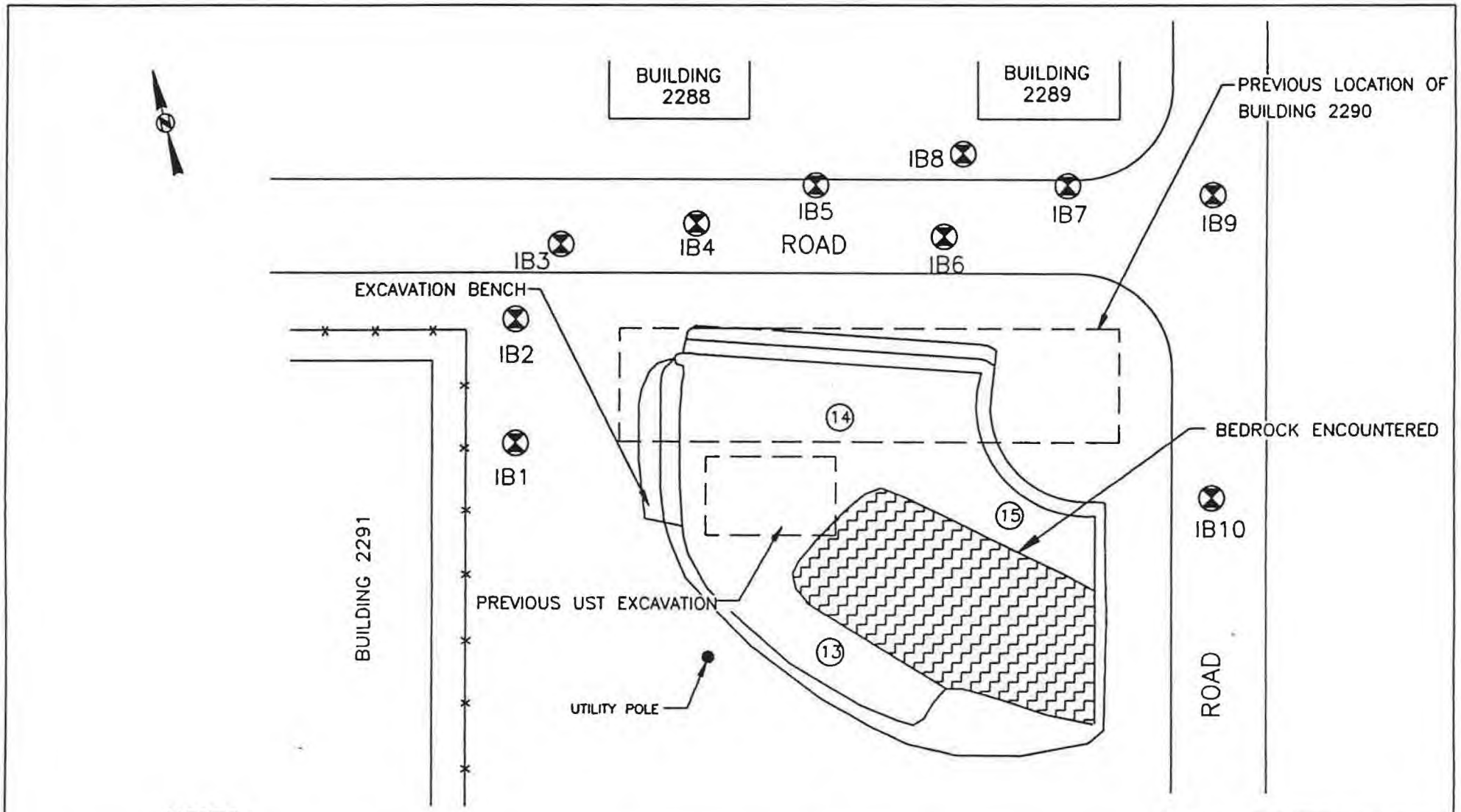
cc: Bill Snow - OHM (1 copy w/attachment)
Tim Coleman - USACE (1 copy w/ attachment)
Project file

AREE 63BE SOIL BORING RESULTS

BORING LOCATION	DEPTH (FEET)	TPH CONCENTRATION (PPM)
IB1	5–7'	ND(42)
	7–9'	ND(42)
	9–11'	ND(42)
	11–12'	ND(42)
	12–13.5'	ND(42)
	14–15'	ND(42)
IB2	5–7'	ND(42)
	7–9'	ND(42)
	9–10'	ND(42)
IB3	5–7'	ND(42)
	7–9'	ND(42)
	9–11'	ND(42)
	11–13'	ND(42)
	13–14.9'	ND(42)
IB4	5–7'	ND(42)
	7–9'	ND(42)
	9–11'	ND(42)
	11–13'	ND(42)
	13–15'	ND(42)
	15–16.5'	ND(42)
IB5	5–7'	ND(42)
	7–9'	50
	9–10'	324
	10–11'	ND(42)
	11–13'	ND(42)
	13–15'	ND(42)
	15–16.3'	ND(42)

BORING LOCATION	DEPTH (FEET)	TPH CONCENTRATION (PPM)
IB6	5–7'	ND(42)
	7–9'	6J
	9–11'	1632
	11–13'	1077
	13–15'	89
	15–17'	193
IB7	5–7'	ND(42)
	7–9'	8J
	9–11'	221
	11–13'	1630
	13–15'	60
	15–17'	25J
IB8	5–7'	ND(42)
	7–9'	ND(42)
	9–11'	23J
	11–13'	122
	13–15'	ND(42)
	15–17	ND(42)
IB9	5–7'	ND(42)
	7–9'	ND(42)
	9–11'	ND(42)
	11–13'	915
	13–15'	573
	15–17'	101
	17–19'	ND(42)
IB10	5–7'	ND(42)
	7–9'	518
	9–11'	ND(42)
	11–13'	600
	13–15'	721
	15–17'	ND(42)
	17–19'	ND(42)

Notes: ND( ) = Indicates TPH not detected at specified detection limit.
J = Indicates estimated concentration below practical quantitation limit.
Results are based on field screening by IR.



NOTES:

IB1 = EXISTING SOIL BORING LOCATION

APPROXIMATE SCALE 1" = 30'

(14) = APPROXIMATE DEPTH IN FEET

OHM Corporation

SOIL BORING RESULTS FOR AREE 638E
BUILDING 2290
FT. DEVENS CONTAMINATED SOIL REMOVAL
FT. DEVENS, MASSACHUSETTS

PREPARED FOR
U.S. ARMY CORPS OF ENGINEERS
WALTHAM, MASSACHUSETTS

DATE: 12-28-94 | PREPARED BY: KJM | OHM JOB NO. 16208

J:\16208\AREE638E

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-20-94 Site Name: AREE 63BE

Weather: Sunny & cold Boring ID: IB1

Samplers: M. Quinlan

Sample ID Number	Time	Sample Depth (ft)	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB1A	0915	5-7'	10,10 13,33	6"	Brown silty sand w/ cobble	0.4	1 x 402 Amb. Glass
IB1B	0930	7-9'	10 15 33 29	15"	Brown clayey sand w/ rock	0.3	
IB1C	0945	9-11'	15 45 45 45	13"	Brown/Gray clayey sand w/ rock	0.2	
IB1D	0955	11-12'	44, 100 refusal	12"	moist sand lens → Brown clayey sand w/ weathered rock	< 0.2	
IB1E	1025	12-13.5'	42 100/5	14 + 1" MCR	wet clayey sand w/ weathered rock - very hard	0.2	
IB1F	1050	14-15'	N/A	10"	Same as above	0.4	

Comments: refusal at 15' - not bedrock just very tight soil

GW - 12-13' BGS

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BE IB1C

Laboratory Destination: (Onsite Lab) (ASC - coc# 107773) USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): Michael N. Quinlan 12/20/94 1500 Received by (dd/tt): M. Quinlan 12/20/94 1500

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-20-94 Site Name: AREE 63 BE

Weather: Sunny & Cold Boring ID: IB2

Samplers: M. Quinlan

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB2A	1125	5-7'	9 9 6 9	12	Brown clayey sand w/ rock	N/A	1 x 40z Amb Class
IB2B	1135	7-9'	19 34 49 54	20	Brown clayey soil w/ weathered rock - very hard	N/A	1
IB2C	1140	9-10'	48 105 - -	12	same as above	N/A	4

Comments: Refusal encountered at 10' - not bedrock - just hard soil
PID not functioning properly

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BE IB2C

Laboratory Destination: (Onsite Lab) ASC - coc # 107773 USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-20-94 Site Name: AREE 63BE

Weather: Boring ID: IB 3

Samplers:

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB3A	1340	5-7'	6 18 32 30	10	Brown sand w/ cobble	N/A	1 x 4oz Amb. Glass
IB3B	1350	7-9'	32 26 18 6	8	Brown clayey sand w/ weathered rock	↓	↓
IB3C	1355	9-11'	8 18 24 38	15	Brown/Gray clay w/ weathered rock		
IB3D	1310	11-13'	24 29 38 43	18	(moist) Same as above		
IB3E	1325	13-14.9'	43 52 66 100/4	18	(moist) Same as above	↓	↓

Comments: Refusal at approx. 15' - bedrock
PID not functioning properly

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BEIB3D

Laboratory Destination: (Onsite Lab) (ASC - coc # 107773) USACE- coc #_____

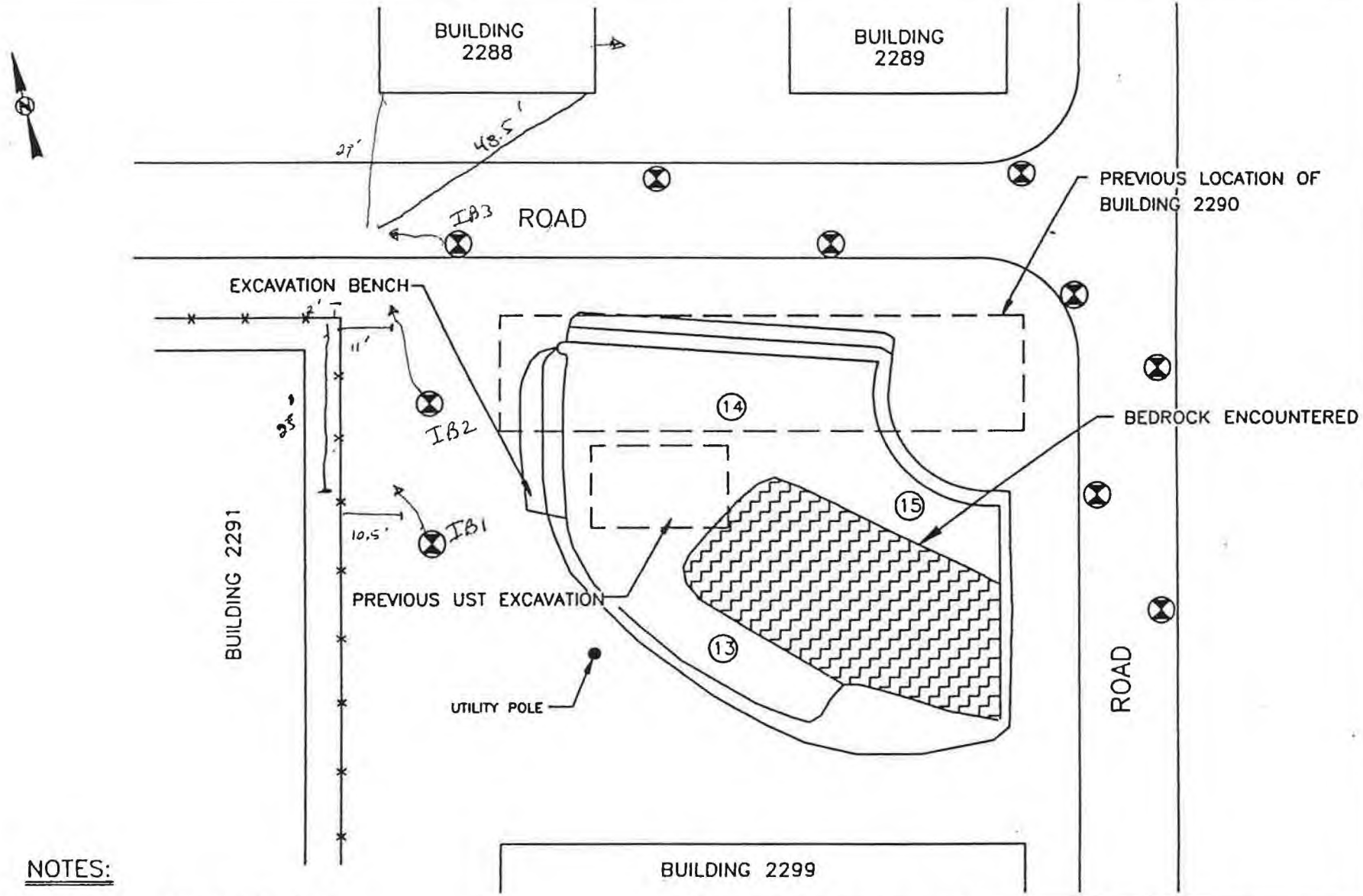
Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____



NOTES:

⊗ = PROPOSED SOIL BORING LOCATION

APPROXIMATE SCALE 1" = 30'

(14) = APPROXIMATE DEPTH IN FEET

DEPARTMENT OF THE ARMY NEW ENGLAND DIVISION CORPS OF ENGINEERS WALTHAM, MASS	FORT DEVENS, MASSACHUSETTS CONTAMINATED SOIL REMOVAL, VARIOUS SITES AREE 63 BE EXCAVATION

A\16206\AREE63BE

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-20-94 Site Name: AREE 63BE

Weather: Sunny & cold Boring ID: IB1

Samplers: M. Quinlan

Sample ID Number	Time	Sample Depth (ft)	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB1A	0915	5-7'	10,10 13,33	6"	Brown silty sand w/ cobble	0.4	1 x 4oz Amb. Glass
IB1B	0930	7-9'	10 15 33 29	15"	Brown clayey sand w/ rock	0.3	
IB1C	0945	9-11'	15 45 45 45	13"	Brown/Gray clayey sand w/ rock	0.2	
IB1D	0955	11-12'	44, 100 refusal	12"	moist sand lens → Brown clayey sand w/ weathered rock	< 0.2	
IB1E	1025	12-13.5'	42 100/5	14 + 4" MC12	wet clayey sand w/ weathered rock - very hard	0.2	
IB1F	1050	14-15'	N/A	10"	same as above	0.4	

Comments: refusal at 15' - not bedrock just very tight soil
GW - 12-13' BGS

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BEIBIC

Laboratory Destination: (Onsite Lab) (ASC - coc# 107773) USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): Michael N Quinlan 12/20/94 1500 Received by (dd/tt): M N Quinlan 12/20/94 1500

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-20-94 Site Name: AREE 63 BE

Weather: Sunny & Cold Boring ID: IB2

Samplers: M. Quinlan

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB2A	1125	5-7'	9 9 6 9	12	Brown clayey sand w/ rock	N/A	1 x 40z Amb Class
IB2B	1135	7-9'	19 34 49 54	20	Brown clayey soil w/ weathered rock - very hard	N/A	4
IB2C	1140	9-10'	48 105 - -	12	same as above	N/A	

Comments: Refusal encountered at 10' - not bedrock - just hard soil
PID not functioning properly

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BE IB2C

Laboratory Destination: (Onsite Lab) ASC - coc # 107773 USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-20-94 Site Name: AREE 63BE

Weather: Boring ID: IB 3

Samplers:

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB3A	1340	5-7'	6 18 32 30	10	Brown sand w/ cobble	N/A	1 x 4oz Amb. Glass
IB3B	1350	7-9'	32 26 18 6	8	Brown clayey sand w/ weathered rock	↓	↓
IB3C	1355	9-11'	8 18 24 28	15	Brown/Gray clay w/ weathered rock		
IB3D	1310	11-13'	24 29 38 43	18	(moist) Same as above		
IB3E	1315	13-14.9'	18 52 68 100/4	18	(moist) Same as above	↓	↓

Comments: Refusal at approx. 15' - bedrock
PID not functioning properly

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BEIB3D

Laboratory Destination: (Onsite Lab) (ASC - coc # 107773) USACE- coc #_____

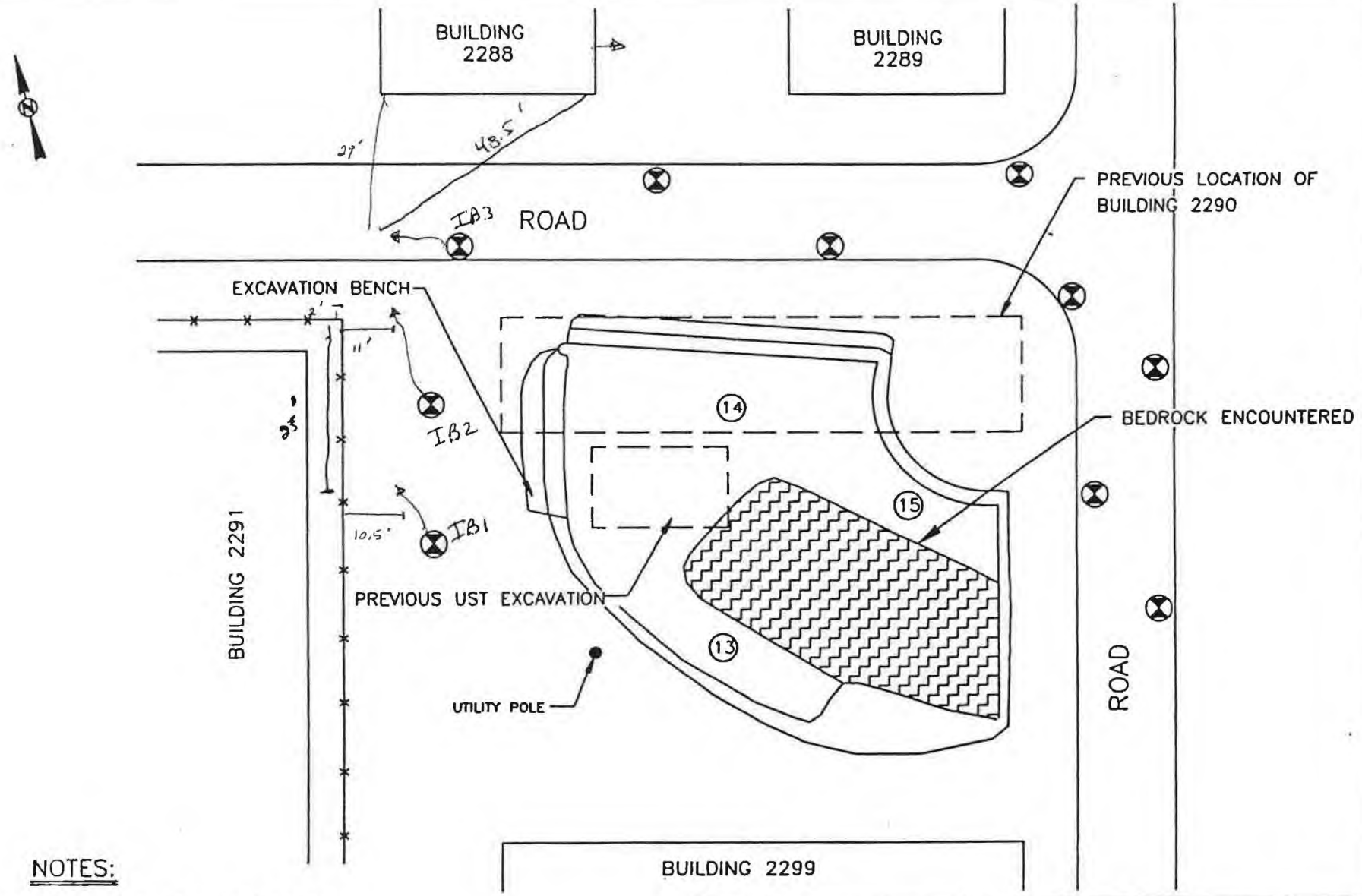
Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Relinquished by(dd/tt):_____ Received by (dd/tt):_____



NOTES:

⊗ = PROPOSED SOIL BORING LOCATION

APPROXIMATE SCALE 1" = 30'

(14) = APPROXIMATE DEPTH IN FEET

DEPARTMENT OF THE ARMY NEW ENGLAND DIVISION CORPS OF ENGINEERS WALTHAM, MASS	FORT DEVENS, MASSACHUSETTS CONTAMINATED SOIL REMOVAL, VARIOUS SITES AREE 63 BE EXCAVATION

A\16206\AREE63BE

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-21-94 Site Name: AREE 63 BE

Weather: Partly Sunny; mild Boring ID: IB4

Samplers: MGQ

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
AR63BE IB4A	0755	5-7'	7 8 9 13	18"	White & Brown fine sand	ND	1 x 4oz Amber
IB4B	0800	7-9'	24 16 13 9	13"	coarse sand gives way to grayish clayey sand	ND	
IB4C	0815	9-11'	4 9 16 22	19"	Brown sand mixed w/ clayey sand & weathered rock	ND	
IB4D	0825	11-13'	36 23 26 32	20"	Brownish/gray clay (w/ light) w/ weathered rock	10	
IB4E	0840	13-15'	17 20 42 57	21"	Brownish/gray clayey sand w/ weathered rock	8.6	
IB4F	0855	15-16.5'	72 94 120/6	18"	Same as above	9.4	

Comments: Refusal encountered at 16.5' BGS

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BE IB4E - also split w/ M+E for MADEP

Laboratory Destination: (Onsite Lab) (ASC - coc # 107773) USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): [signature] 12/21/94 1530 Received by (dd/tt): [signature] 12/21/94 1530

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-21-94 Site Name: AREE 63BE

Weather: SUNNY & MILD Boring ID: IB5

Samplers: MGC

Sample ID Number	Time	Sample Depth (ft)	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB5A	0935	5-7'	1 1 / 2 4	10"	Brown medium Sand w/ some cobble	3	1 x 4oz Amber Glass
IB5B	0930	7-9'	3 19 / 23 30	10"	Course Sand mix w/ rock	1	
IB5C1 (SPLIT SPOON)	0950	9-10'	3 16 / 27 30	19"	6-8 inch lens of sand at 10' discolored w/ odor (moist-a wet)	> 38	
IB5C2 ~~SD1~~	0950	10-11'	~~23 26 / 32 33~~		Brown clayey sand no discoloration or odor	4.8	
IB5 ~~D2~~ D2	1005	11-13	23 26 / 37 33	19"	Brown clayey Sand w/ rock	0.8	
IB5E	1045	13-15	17 19 / ~~44~~ 72	19"	Same as above	0.6	
IB5F	1050	15-16.3'	88 100/3	6"	" " "		

Comments: refused at 16' 3"

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BE IB5C1 + SC2 split w/ M&E for State MADEP to ASC

Laboratory Destination: Onsite Lab ASC - coc # 107773 USACE- coc #_____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other_____

Relinquished by(dd/tt): MM 2nd 12/21/94 1530 Received by (dd/tt): MM 2nd 12/21/94 1530

Relinquished by(dd/tt):_____ Received by (dd/tt):_____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-21-94 Site Name: AOEE 63BE

Weather: Sunny & Mild Boring ID: IB6

Samplers:

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB6A	1155	5-7'	2 3 3 3	14"	Brown medium sand	ND	1x40z Amb. Glass
IB6B	1200	7-9	8 14 18 22	7"	coarse sand w/ rock	ND	
IB6C	1215	9-11	13 9 7 6	14" 13	coarse sand gives way to gray clayey sand w/ odor	56	
IB6D	1220	11-13'	7 13 17 23	17"	moist → wet gray clay sand w/ odor & rock	80	
IB6E	1250	13-15'	27 26 24 32	18"	moist brown/gray clayey sand w/ rock	34	
IB6F	1300	15-17'	52 44 38 30	13"	Brown/gray clayey sand w/ weathered rock	40	

Comments: ~~Abo~~ Moved 4' South after encountering refusal at 3' on initial boring refusal at 17'

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BE IB6D - split w/ M&E for MADEP

Laboratory Destination: Onsite Lab ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 12/21/94 1530 Received by (dd/tt): [signature] 12/21/94 1530

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-21-94 Site Name: AREC 6306

Weather: Sunny & Mild Boring ID: IB7

Samplers: MGQ

Sample ID Number	Time	Sample Depth(ft)	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB7A	1405	5-7'	4 3 / 3	16	orange, tan med sand	0.4	1 x 4 oz Amber Glass
IB7B	1410	7-9'	9 12 / 26	14	med tan sand gives way to coarse sand w/ rock	0.4	
IB7C	1420	9-11'	22 19 / 8	16	coarse sand gives way to clayey sand	12	
IB7D	1430	11-13'	8 14 / 22	12	moist & wet gray clayey sand w/ rock & odor	78	
IB7E	1445	13-15'	28 22 / 32	10	Same as above slight odor	40	
IB7F	1450	15-17	18 23 / 30	10'	same as above	29	

Comments: refusal encountered at 17'

Map Attached: (Yes) No

Sample Selected for off-site analysis: AR63BEIB7D - split w/ MSE for MADEP

Laboratory Destination: Onsite Lab ASC - coc # _____ USACE- coc # _____

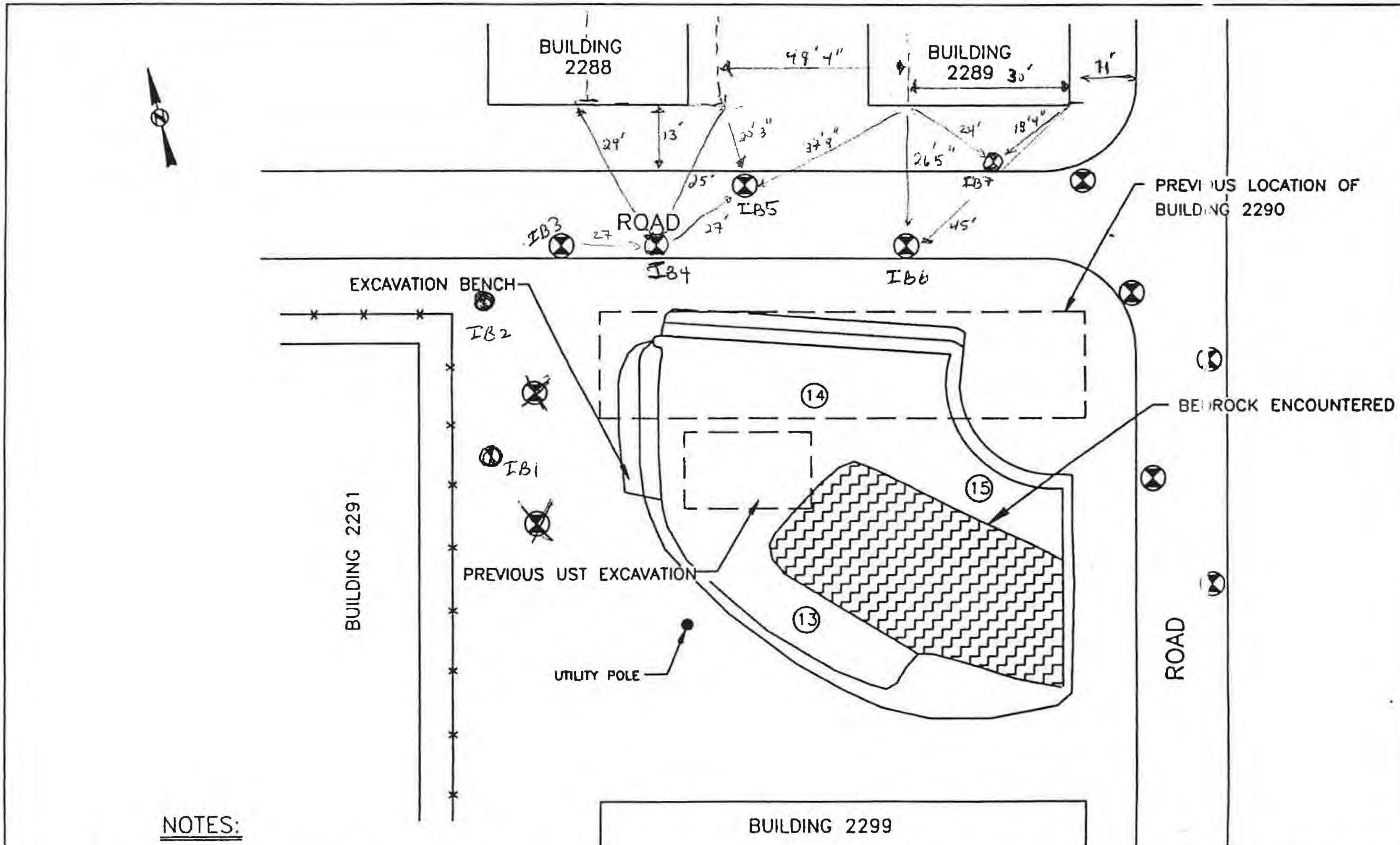
Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: (TPH) BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): MM 12/21/94 1530 Received by (dd/tt): MM 12/21/94 1530

Relinquished by(dd/tt): _____ Received by (dd/tt): _____



NOTES:

(symbol) = PROPOSED SOIL BORING LOCATION

APPROXIMATE SCALE 1" = 30'

(14) = APPROXIMATE DEPTH IN FEET

DEPARTMENT OF THE ARMY NEW ENGLAND DIVISION CORPS OF ENGINEERS WALTHAM, MASS	FORT DEVENS, MASSACHUSETTS CONTAMINATED SOIL REMOVAL, VARIOUS SITES AREE 63 E EXCAVATION

Site: Ft. Devens, MA Location No.: AREE 63BE Date: 12-21-94 GC Analyst: TPH Analyst: MGQ

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

Concentration (mg/kg)	Action Level	Sample ID AR63BE																		
		IB4D	IB4E	IB5B	IB5C1	IB5C2	IB6B	IB6C	IB6D	IB6E	IB6F	IB7B	IB7C	IB7D	IB7E	IB7F				
TRPH	500 ppm	ND	ND	50	324	ND	6 J	1632	1077	89	193	8 J	221	1630	60	25 J				
	500 ppm																			
	500 ppm																			

ND - indicates TPH was not detected

J - indicates estimated concentration below practical quantitation limit

TPH Worksheet
On-site Laboratory
Fort Devens - Project #16208

Date: 12-21-94 Site(s): AREE 63BE Analyst:: MGQ

Sample ID	Instrument Response		Calibration Adjusted		Sample Weight (g)	Extract Vol. (ml)	Dilution	Results	
	AHC (ppm)	TPH (ppm)	AHC (ppm)	TPH (ppm)				AHC (ppm)	TPH(ppm)
IB4D	ND	ND (5)							ND
IB4E	ND	ND (5)							ND
IB5B	ND (5)	80		48	19.7	20.3	1		50
IB5C1	37	273		173	10.6	19.9	1	63	324
IB5C2	ND	ND (3)							ND
IB6B	ND	11		6	20.2	19.5			6 J
IB6C	232	1309	211	841	10.0	19.4	1	409	1632
IB6D	167	901	152	578	10.3	19.2	1	283	1077
IB6E	27	153	25	95	20.1	18.7	1	23	89
IB6F	60	315	55	200	20.1	19.4	1	53	193
IB7B	ND	15		9	19.8	19.3	1		8 J
IB7C	20	361	18	230	20.0	19.2	1	17	221
IB7D	248	1320	225	~~23~~ DNRB	10.9	19.9	1	412	–
IB7D/S	45	282		179			5		1630
IB7E	13	93	12	60	19.6	19.6	1	12	60
IB7F	ND	47			20.4	19.1	1		25 J

AHC - Aromatic Hydrocarbons
TPH - Total Petroluem Hydrocarbons

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-22-94 Site Name: AREE 63BE

Weather: Sunny & M. 16 Boring ID: IB8

Samplers: MGQ

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB8A	0840	5-7'	3 4 / 4 7	14"	Tan medium sand	ND	1 x 4 oz Amber Glass
IB8B	0845	7-9'	17 12 / 12 12	10"	coarse sand w/ cobble	ND	
IB8C	0855	9-11'	13 10 / 6 5	15"	coarse sand → Dense gray clayey sand	4.2	
IB8D	0900	11-13'	13 10 / 11 17	19"	Moist gray/brown clayey sand w/ some petroleum odor	32.0	
IB8E	0920	13-15'	18 35 / 23 26	16"	Moist → wet gray brown clayey sand	1.2	
IB8F	0925	15-17'	18 33 / 43 38	18"	same as above	1.0	

Comments: Refusal at 17'

Map Attached: (Yes) No

Sample Selected for off-site analysis: _____

Laboratory Destination: (Onsite Lab) ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): [signature] 12/22/94 1400 Received by (dd/tt): [signature] 12/22/94 1400

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-22-94 Site Name: AREE 63BE

Weather: Boring ID: IB9

Samplers:

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB9A	1020	5-7'	4 4 6 6	16"	med, tan sand - some coal mixed in	ND	1 x 40z Amber Glass
IB9B	1025	7-9'	7 8 8 13	16"	medium brown sand - some coal	ND	
IB9C	1040	9-11'	4 8 16 20	15"	Coarse sand & cobble	ND	
IB9D	1045	11-13'	22 10 8 16	18"	Coarse sand & cobble → wet gray clayey sand w/ odor	70	
IB9E	1055	13-15'	8 10 12 13	18"	gray clayey sand - dense w/ odor	60	
IB9F	1100	15-17'	13 18 20 20	19"	Gray clayey sand very dense	50	
IB9G	1130	17-19	7 10 11 9	3"	wet gray clayey sand	3.4	

Comments: _____

_____

Map Attached: Yes No

Sample Selected for off-site analysis: _____

Laboratory Destination: Onsite Lab ASC - coc # _____ USACE- coc # _____

Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Soil Sample Collection Log
Split-Spoon Sampling
Fort Devens - Project #16208

Date: 12-22-94 Site Name: AREE 63BE

Weather: Sunny & warm Boring ID: IB10

Samplers: HGQ

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
63BE IB10 A	1215	5-7'	4 7 / 8 7	24"	medium tan sand	ND	1 x 4 oz Amb. Glass
IB10 B	1220	7-9'	4 12 / 17 19	15"	mix of medium & coarse sand	0.8	
IB10C	1235	9-11'	14 17 / 15 18	15"	same as above	ND	
IB10D	1240	11-13'	21 17 / 6 5	11"	gray clayey sand w/ petroleum odor	56	
IB10 E	1255	13-15'	9 6 / 7 8	18"	same as above	70	
IB10 F	1300	15-17'	7 8 / 9 9	20"	gray dense clayey sand	1.4	
IB 10G	1315	17-19'	14 17 / 19 20	20"	" " "	0.6	

Comments: _____

_____

Map Attached: (Yes) No

Sample Selected for off-site analysis: _____

Laboratory Destination: Onsite Lab ASC - coc # _____ USACE- coc # _____

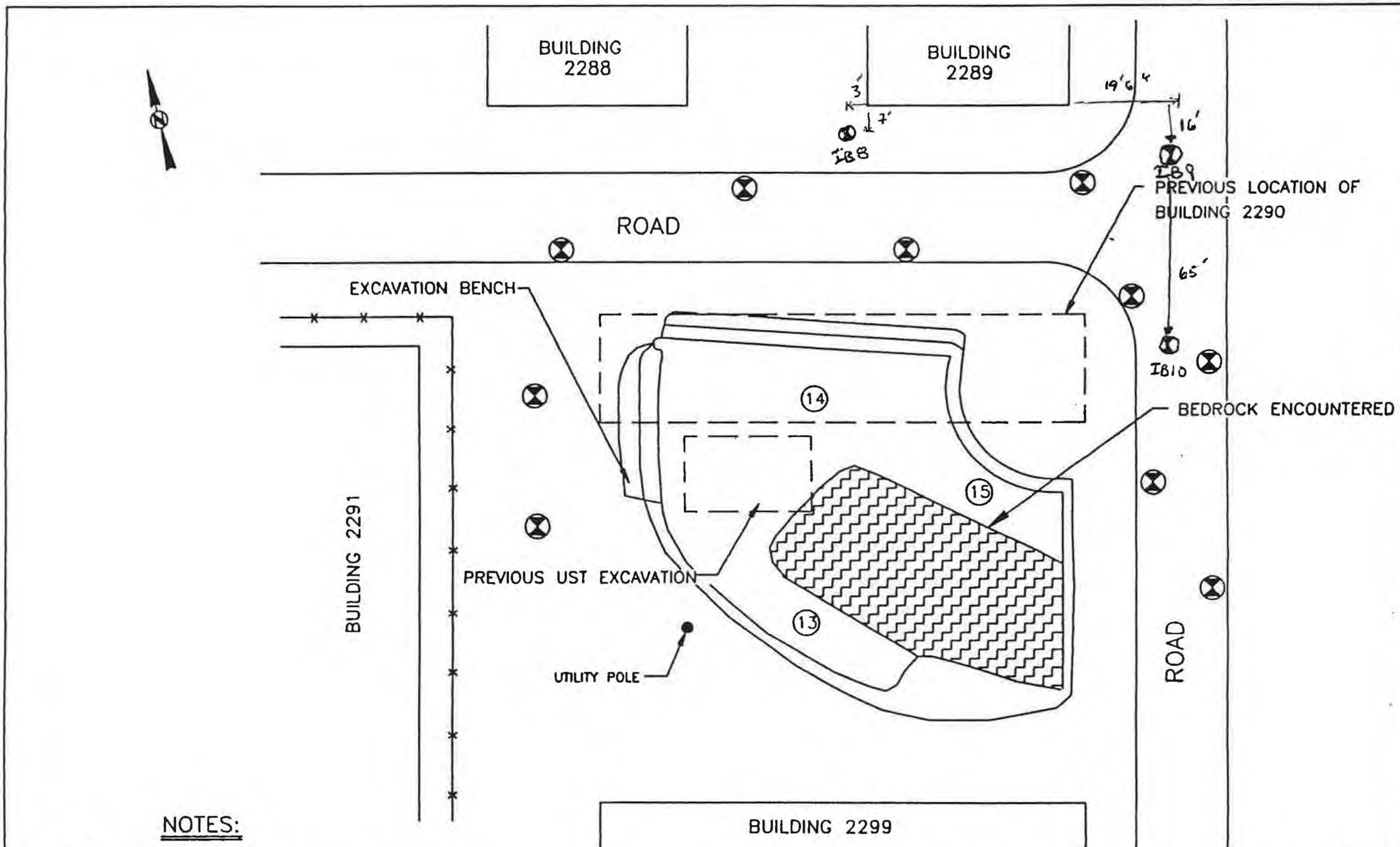
Duplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlordane PCBs Other _____

Relinquished by(dd/tt): _____ Received by (dd/tt): _____

Relinquished by(dd/tt): _____ Received by (dd/tt): _____



NOTES:

⊗ = PROPOSED SOIL BORING LOCATION

APPROXIMATE SCALE 1" = 30'

(14) = APPROXIMATE DEPTH IN FEET

DEPARTMENT OF THE ARMY NEW ENGLAND DIVISION CORPS OF ENGINEERS WALTHAM, MASS	FORT DEVENS, MASSACHUSETTS CONTAMINATED SOIL REMOVAL, VARIOUS SITES AREE 63 BE EXCAVATION

J:\16206\AREE63BE

Site: Ft. Devens, MA Location No.: AREE 63BE Date: 12-22-94 GC Analyst: TPH Analyst: MRB

Clean Piles (CP)
Investigative Borings (IB)

Method 8080

Concentration (mg/kg)	Action Level	Sample ID																		
Aroclor 1260	2 ppm																			
chlordane	1 ppm																			
Percent Recovery																				
2,4,5,6-tcmx																				
decachlorobiphenyl																				

Method 418.1

← AR63BE (collected 12.21.94) → ← AR63BE (collected 12-22-94 →

Concentration (mg/kg)	Action Level	Sample ID																		
		IB4A	IB4B	IB4C	IB4F	IB5A	IB5D	IB5E	IB5F	IB6A	IB7A		IB8A	IB8B	IB8C	IB8D	IB8E	IB8F	IB9A	IB9B
TRPH	500 ppm	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	23 J	122	ND	ND	ND	ND
		IB9C	IB9D	IB9E	IB9F	IB9G	IB10A	IB10B	IB10E	IB10D	IB10E	IB10F	IB10G							
	500 ppm	ND	915	573	101	ND	ND	518	ND	600	721	ND	ND							
Ex 63BE CP → Clean Piles		1A	1B	1C	1D	1E	1F	1G	1H	2A	2B	2C	2D							
	500 ppm	ND	45	29 J	ND	ND	ND	ND	16 J	98	81	114	37 J							

* 1A → 1H collected on 12/21/94

ND - Indicates TPH not Detected

J - Indicates estimated concentration below Practical Quantitation limit

TPH Worksheet
On-site Laboratory
Fort Devens - Project #16208

Date: 12.22.94 Site(s): Ex 63BE clean pile (CP) soil borings Analyst:: MRB

Sample ID	Instrument Response		Calibration Adjusted		Sample	Extract		Results	
	AHC (ppm)	TPH (ppm)	AHC (ppm)	TPH (ppm)	Weight (g)	Vol. (ml)	Dilution	AHC (ppm)	TPH(ppm)
EX 63BECP 1A	(7) ND	(6) ND						ND	ND
1B	33	82		49.7	20.0	18.0			45 NGQ
1C	33	53		31	20.3	18.7			29 J
1D	10	19			19.8	18.7		ND	ND
1E	4	16			19.7	18.6		ND	ND
1F	14	5			19.9	18.6			ND
1G	9	6			~~20.5~~ NGQ	~~18.~~		ND	ND
1H	14	32		17.5	20.2	18.6			16 J
A Q 63BE 1B4A	ND	ND(2)						ND	ND
1B4B	ND	ND(0)						ND	ND
1B4C	ND	ND(2)						ND	ND
1B4F	ND	24			20.4	18.5		ND	ND
1B5A	ND	ND(5)						ND	ND
1B5D	ND	ND(1)						ND	ND
1B5E	ND	ND(0)						ND	ND
1B5F	ND	ND(-2)						ND	ND
1B6A	ND	ND(-2)						ND	ND
1D7A	ND	ND(4)						ND	ND
EX63BECP 2A	26	168		105	20.3	18.8			98
2B	12	130		80.7	19.2	19.3			81

AHC - Aromatic Hydrocarbons
TPH - Total Petroluem Hydrocarbons

TPH Worksheet
On-site Laboratory
Fort Devens - Project #16208

Date: 12-22-94 Site(s): AREE 63BE Clean Piles (CP) Analyst:: MRB

Sample ID	Instrument Response		Calibration Adjusted		Sample	Extract		Results	
	AHC (ppm)	TPH (ppm)	AHC (ppm)	TPH (ppm)	Weight (g)	Vol. (ml)	Dilution	AHC (ppm)	TPH(ppm)
EX63BECP 42C	42	180		113	19.2	19.4			114
2D	21	64		38	20.3	19.7			37J
AR63BE IB8A	ND	ND							ND
IB8B	ND	ND							ND
IB8C	ND	44		25.2	19.8	18.2			~~50.5~~ 23 J
IB8D	19	85		51.7	9.1	21.5			122
IB8E	ND	ND							ND
IB8F	ND	ND							ND
IB9A	ND	ND							ND
IB9B	ND	ND							ND
IB9C	18	12			19.8	21.3			ND
IB9D	88	617		394.9	9.6	21.1			915
IB9E	139	855		548.5	18.0	18.8			573
IB9F	28	166		104	19.5	18.9			107
IB9G	ND	10			20.0	19.1			ND
IB10A	ND	ND							ND
IB10B	134	864		554	20.1	18.8			518
IB10C	ND	13			19.4	18.9			ND
IB10D	187	1060		680.7	20.3	17.9			600
IB10E	239	1279		822	20.3	~~18.0~~ 17.8			721
IB10F	ND	18			20.5	~~19.4~~ 18.9			ND
IB10G	ND	11			20.0	19.4			ND

AHC - Aromatic Hydrocarbons
TPH - Total Petroluem Hydrocarbons

Appendix F

ASC Analytical Report - Soil Boring Results

Analytical Services Corp.

ANALYTICAL REPORT

Client: OHM Remediation Services Corporation
Eastern Region (Hopkinton, MA)

Attn: William Snow
Ron Kenyon
Mike Quinlan

Project: 16208C - USACE; Fort Devens, MA

Sample Type(s): Solid

Analysis Performed: Conventional and Organic

Date Sample Received: December 28, 1994

Date Order Received: December 28, 1994

Joblink(s): 617328

Reviewed and Approved by: _____ *Date:* January 9, 1995
Thomas E. Gran, Ph.D., Vice President

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- All sample results are reported on a "dry weight" basis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

APPENDIX A

DATA SUMMARY REPORT

NOTE: The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 01/04/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		**AR63BEIB1C**	**AR63BEIB2C**	**AR63BEIB3C**	**AR63BEIB4E**	**63BEIB5C1**
ASC Sample Number:		JN6597	JN6598	JN6599	JN6600	JN6601
Sample Date:		941220	941220	941220	941221	941221
Facility Code:		016208C	016208C	016208C	016208C	016208C
Parameters	Units					
Conventional Data (CV10)						
Solids, Total	%	90.0	92.3	92.2	87.6	89.0
Total Petroleum Hydrocarbon Analysis, IR (IR00)						
Petroleum Hydrocarbons (IR)	mg/kg	<7.41	<7.22	<7.22	12.6	287

DATA SUMMARY REPORT

DATE: 01/04/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Parameters	Units	AR63BEIB6D	AR63BEIB7D	AR63BEIB8D	AR63BEIB9D	63BEIB10E
Sample Point ID:		AR63BEIB6D	AR63BEIB7D	AR63BEIB8D	AR63BEIB9D	63BEIB10E
ASC Sample Number:		JN6602	JN6603	JN6604	JN6605	JN6606
Sample Date:		941221	941221	941222	941222	941222
Facility Code:		016208C	016208C	016208C	016208C	016208C
Conventional Data (CV10)						
Solids, Total	%	90.3	89.0	88.0	91.0	89.2
Total Petroleum Hydrocarbon Analysis, IR (IR00)						
Petroleum Hydrocarbons (IR)	mg/kg	621	1100	140	415	431

APPENDIX B

QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB1C	JN6597

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	90.0	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB2C	JN6598

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	92.3	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB3C	JN6599

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	92.2	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB4E	JN6600

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	87.6	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	63BEIB5C1	JN6601

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	89.0	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB6D	JN6602

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	90.3	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB7D	JN6603

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	89.0	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB8D	JN6604

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	88.0	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB9D	JN6605

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	91.0	.100	-	
Solids, Total	%	91.0	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	63BEIB10E	JN6606

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	89.2	.100	-	

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB1C	JN6597

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	ND	7.41	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB2C	JN6598

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	ND	7.22	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB3C	JN6599

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	ND	7.22	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB4E	JN6600

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	12.6	7.60	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	63BEIB5C1	JN6601

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	287	37.5	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB6D	JN6602

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	621	73.8	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB7D	JN6603

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	1100	74.6	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB8D	JN6604

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	140	7.55	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEIB9D	JN6605

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	415	73.3	ND	Q2T41929

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	63BEIB10E	JN6606

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	431	74.6	ND	Q2T41929

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 617328

REFERENCE		TITLE
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- o US Army Corps of Engineers . . . . . Chemical Analysis in Various Matrices

Approvals:

- o Chemical Waste Management . . . . . Waste Characterization Analysis
- o Envirosafe . . . . . Waste Characterization Analysis
- o USDA . . . . . Permit for Importing Soils
- o Florida DEP . . . . . Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center . . . . . Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample (Tedlar Bag)
ug/smp	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act
SOW	=	Statement of Work

Quality Assurance Data

Total Petroleum Hydrocarbon Analysis, IR (IR00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Petroleum Hydrocarbons (IR)	ND	81	ND	78	5	Q2T41929

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

No. 107773

OHM MATERIALS CORP • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Fort Devens	PROJECT LOCATION: Ayer, Ma.
PROJ NO: 16208	PROJECT CONTACT: Mike Quinlan
PROJECT TELEPHONE NO.: 508 772-2019	
CLIENT'S REPRESENTATIVE: Tim Coleman (USACE)	PROJECT MANAGER/SUPERVISOR: Bill Snow

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) TPH (1 x 40z Amber (Ice))	REMARKS
1	AR63BEIB1C	12-20-94	0945		X	Boring 1 - 9-11' depth - Brown/ Gray clayey sand	1	X	8oz
2	AR63BEIB2C	"	1140		X	Boring 2, 9-10' depth - Brown clayey sand w/ weathered rock			
3	AR63BEIB3C	"	1310		X	Boring 3, 11-13' depth - Moist Brown/Gray clay w/ weathered rock			THE LABEL AR63BEIB3D
4	AR63BEIB4E	12-21-94	0340			Boring 4, 11-15' depth - Brown/ Gray dense clayey sand			
5	AR63BEIB5C	12-22-94	0950			Boring 5 9-10' depth - discolored sand lens - blackish			
6	AR63BEIB6D		1220			Boring 6 11-13' depth - wet gray clayey sand			
7	AR63BEIB7D		1430			Boring 7 11-13' depth - wet gray clayey sand			
8	AR63BEIB8D	12-22-94	0900			Boring 8 11-13' depth - wet gray clayey sand			
9	AR63BEIB9D		1045			Boring 9 - 11-13' depth - wet gray clayey sand			
10	63BEIB10E		1255			Boring 10 - 13'-15' depth - moist gray clayey sand			

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	Michael X. Quinlan	Fed. Ex Airbill #	12-27-94	1530
2	1-10	FedX 2989315881	M. Radalbaugh	12/28/94	0955
3					
4					

REMARKS

3 day TAT
4°C - Temp Blank Included

SAMPLER'S SIGNATURE: Michael X. Quinlan

Appendix G

ASC Analytical Report - Confirmation Samples

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis Report

Client: OHM Remediation Services Corp.
Eastern Region (Hopkinton, MA)

Attn: William Snow
Ron Kenyon
Mike Quinlan

Project: 16208C - USACE; Fort Devens, MA

Sample Type(s): Solid

Analysis Performed: Conventional and Organics

Date Sample Received: January 14, 1995

Date Order Received: January 14, 1995

Joblink(s): 617428

Reviewed and Approved by: *Thomas E. Gran, Ph.D., Vice President*

Date: January 23, 1995

16406 U.S. Route 224 East ▪ P.O. Box 551 ▪ Findlay, OH 45839-0551 ▪ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- All solid sample results are reported on a "dry weight" basis.
- % RPD values which were outside QC limits for the Semi-volatile Organics analysis were attributable to matrix interferences and/or sample nonhomogeneity.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- Samples will be retained for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

APPENDIX A

DATA SUMMARY REPORT

DATA SUMMARY REPORT

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Parameters	Units								
Sample Point ID:		**SBAR63BEAC**	**SBAR63BEBC**	**SBAR63BECC**	**SBAR63BEDC**	**SBAR63BEEC**	**SBAR63BEFC**	**SBAR63BEDP**	**SBAR63BEAG**
ASC Sample Number:		JN7238	JN7239	JN7240	JN7241	JN7242	JN7243	JN7244	JN7245
Sample Date:		950112	950113	950113	950113	950113	950113	950113	950112
Facility Code:		016208C	016208C	016208C	016208C	016208C	016208C	016208C	016208C
Conventional Data (CV10)									
Solids, Total	%	88.0	83.5	85.2	88.5	85.4	84.6	82.4	87.3

Parameters	Units						
Sample Point ID:		**SBAR63BEBG**	**SBAR63BECG**	**SBAR63BEDG**	**SBAR63BEEG**	**SBAR63BEFG**	**SBAR63BEDU**
ASC Sample Number:		JN7246	JN7247	JN7248	JN7249	JN7250	JN7251
Sample Date:		950113	950113	950113	950113	950113	950113
Facility Code:		016208C	016208C	016208C	016208C	016208C	016208C
Conventional Data (CV10)							
Solids, Total	%	86.0	83.2	88.2	90.8	78.6	91.9

Parameters	Units							
Sample Point ID:		**SBAR63BEAG**	**SBAR63BEBG**	**SBAR63BECG**	**SBAR63BEDG**	**SBAR63BEEG**	**SBAR63BEFG**	**SBAR63BEDU**
ASC Sample Number:		JN7245	JN7246	JN7247	JN7248	JN7249	JN7250	JN7251
Sample Date:		950112	950113	950113	950113	950113	950113	950113
Facility Code:		016208C	016208C	016208C	016208C	016208C	016208C	016208C
BTXE Volatile Analysis, GC, (GV33)								
Benzene	mg/kg	<.001	<.001	<.001	<.001	<.108	<.005	<.051
Ethylbenzene	mg/kg	<.001	<.001	<.001	<.001	.808	.009	.276
Toluene	mg/kg	<.001	<.001	<.001	<.001	<.108	<.005	<.051
Xylenes	mg/kg	<.001	<.001	<.001	<.001	<.108	<.005	<.051

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Parameters	Units	Sample Point ID: SBAR63BEAC ASC Sample Number: JN7238 Sample Date: 950112 Facility Code: 016208C	SBAR63BEBC JN7239 950113 016208C	SBAR63BECC JN7240 950113 016208C	SBAR63BEDC JN7241 950113 016208C	SBAR63BEEC JN7242 950113 016208C	SBAR63BEFC JN7243 950113 016208C	SBAR63BEDP JN7244 950113 016208C
Total Petroleum Hydrocarbon Analysis, IR (IR00)								
Petroleum Hydrocarbons (IR)	mg/kg	534	10.5	7.91	57.6	510	200	374
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)								
Acenaphthene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Acenaphthylene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Anthracene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo(a)anthracene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo(b)fluoranthene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo(k)fluoranthene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo(ghi)perylene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo(a)pyrene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis(2-Chloroethyl) ether	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis(2-Chloroethoxy)methane	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis(2-Chloroisopropyl)ether	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis(2-Ethylhexyl)phthalate	mg/kg	1.09	<.389	<.385	.672	.938	<.382	.764
4-Bromophenyl phenyl ether	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Butyl benzyl phthalate	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Carbazole	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
4-Chloroaniline	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
p-Chloro-m-cresol	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
2-Chloronaphthalene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
2-Chlorophenol	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
4-Chlorophenyl phenyl ether	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Chrysene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Dibenzo(a,h)anthracene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Dibenzofuran	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Di-n-butyl phthalate	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
1,2-Dichlorobenzene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
1,3-Dichlorobenzene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
1,4-Dichlorobenzene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
3,3'-Dichlorobenzidine	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,4-Dichlorophenol	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Diethyl phthalate	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Dimethyl phthalate	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,4-Dimethylphenol	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394

DATA SUMMARY REPORT

DATE: 01/20/95

Company: OHM REMEDIATION SERVICES CORPORATION

Parameters	Units	Sample Point ID:	SBAR63BEAC	SBAR63BEBC	SBAR63BECC	SBAR63BEDC	SBAR63BEEC	SBAR63BEFC	SBAR63BEDP
		ASC Sample Number:	JN7238	JN7239	JN7240	JN7241	JN7242	JN7243	JN7244
		Sample Date:	950112	950113	950113	950113	950113	950113	950113
		Facility Code:	016208C	016208C	016208C	016208C	016208C	016208C	016208C
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)									
4,6-Dinitro-o-cresol	mg/kg		<.933	<.973	<.962	<.923	<.962	<.954	<.984
2,4-Dinitrophenol	mg/kg		<1.87	<1.95	<1.92	<1.85	<1.92	<1.91	<1.97
2,4-Dinitrotoluene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,6-Dinitrotoluene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Di-n-octyl phthalate	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Fluoranthene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Fluorene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Hexachlorobenzene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Hexachlorobutadiene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Hexachlorocyclopentadiene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Hexachloroethane	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Indeno(1,2,3-cd)pyrene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Isophorone	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
2-Methylnaphthalene	mg/kg		.590	<.389	<.385	<.369	1.12	<.382	1.56
2-Methylphenol	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
4-Methylphenol	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
N-Nitrosodi-n-propylamine	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
N-Nitrosodiphenylamine	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Naphthalene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
2-Nitroaniline	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
3-Nitroaniline	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
4-Nitroaniline	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Nitrobenzene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
2-Nitrophenol	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
4-Nitrophenol	mg/kg		<1.87	<1.95	<1.92	<1.85	<1.92	<1.91	<1.97
Pentachlorophenol	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Phenanthrene	mg/kg		1.17	<.389	<.385	<.369	.715	.454	.701
Phenol	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Pyrene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
1,2,4-Trichlorobenzene	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,4,5-Trichlorophenol	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,4,6-Trichlorophenol	mg/kg		<.373	<.389	<.385	<.369	<.385	<.382	<.394

APPENDIX B

QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEAC	JN7238

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	88.0	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEBC	JN7239

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	83.5	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BECC	JN7240

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	85.2	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDC	JN7241

Compounds		**Sample Results**	Detection Limits	Blank Results	Batch Number
Solids, Total	%	88.5	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEEC	JN7242

Compounds		**Sample Results**	Detection Limits	Blank Results	Batch Number
Solids, Total	%	85.4	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEFC	JN7243

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	84.6	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDP	JN7244

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	82.4	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEAG	JN7245

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	87.3	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEBG	JN7246

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	86.0	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BECG	JN7247

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	83.2	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDG	JN7248

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	88.2	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEEG	JN7249

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	90.8	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEFG	JN7250

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	78.6	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDU	JN7251

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	91.9	.100	-	

BTXE Volatile Analysis, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEAG	JN7245

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.001	ND	Q2W4158
Ethylbenzene	ND	.001	ND	Q2W4158
Toluene	ND	.001	ND	Q2W4158
Xylenes	ND	.001	ND	Q2W4158

BTXE VOLATILE ANALYSIS, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEBG	JN7246

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.001	ND	Q2W4158
Ethylbenzene	ND	.001	ND	Q2W4158
Toluene	ND	.001	ND	Q2W4158
Xylenes	ND	.001	ND	Q2W4158

BTXE VOLATILE ANALYSIS, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BECG	JN7247

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.001	ND	Q2W4158
Ethylbenzene	ND	.001	ND	Q2W4158
Toluene	ND	.001	ND	Q2W4158
Xylenes	ND	.001	ND	Q2W4158

BTXE Volatile Analysis, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDG	JN7248

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.001	ND	Q2W4158
Ethylbenzene	ND	.001	ND	Q2W4158
Toluene	ND	.001	ND	Q2W4158
Xylenes	ND	.001	ND	Q2W4158

BTXE VOLATILE ANALYSIS, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEEG	JN7249

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.108	ND	Q2W4161
Ethylbenzene	.808	.108	ND	Q2W4161
Toluene	ND	.108	ND	Q2W4161
Xylenes	ND	.108	ND	Q2W4161

BTXE VOLATILE ANALYSIS, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEFG	JN7250

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.005	ND	Q2W4158
Ethylbenzene	.009	.005	ND	Q2W4158
Toluene	ND	.005	ND	Q2W4158
Xylenes	ND	.005	ND	Q2W4158

BTXE Volatile Analysis, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDU	JN7251

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.051	ND	Q2W4161
Ethylbenzene	.276	.051	ND	Q2W4161
Toluene	ND	.051	ND	Q2W4161
Xylenes	ND	.051	ND	Q2W4161

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEAC	JN7238

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	534	37.9	ND	Q2T50051

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEBC	JN7239

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	10.5	7.81	ND	Q2T50051

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BECC	JN7240

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	7.91	7.75	ND	Q2T50051

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDC	JN7241

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	57.6	7.46	ND	Q2T50051

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEEC	JN7242

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	510	76.6	ND	Q2T50051

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEFC	JN7243

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	200	7.78	ND	Q2T50051

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDP	JN7244

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	374	40.0	ND	Q2T50051

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEAC	JN7238

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.373	ND	Q2C50050
Acenaphthylene	ND	.373	ND	Q2C50050
Anthracene	ND	.373	ND	Q2C50050
Benzo(a)anthracene	ND	.373	ND	Q2C50050
Benzo(b)fluoranthene	ND	.373	ND	Q2C50050
Benzo(k)fluoranthene	ND	.373	ND	Q2C50050
Benzo(ghi)perylene	ND	.373	ND	Q2C50050
Benzo(a)pyrene	ND	.373	ND	Q2C50050
bis(2-Chloroethyl) ether	ND	.373	ND	Q2C50050
bis(2-Chloroethoxy)methane	ND	.373	ND	Q2C50050
bis(2-Chloroisopropyl)ether	ND	.373	ND	Q2C50050
bis(2-Ethylhexyl)phthalate	1.09	.373	ND	Q2C50050
4-Bromophenyl phenyl ether	ND	.373	ND	Q2C50050
Butyl benzyl phthalate	ND	.373	ND	Q2C50050
Carbazole	ND	.373	ND	Q2C50050
4-Chloroaniline	ND	.373	ND	Q2C50050
p-Chloro-m-cresol	ND	.373	ND	Q2C50050
2-Chloronaphthalene	ND	.373	ND	Q2C50050
2-Chlorophenol	ND	.373	ND	Q2C50050
4-Chlorophenyl phenyl ether	ND	.373	ND	Q2C50050
Chrysene	ND	.373	ND	Q2C50050
Dibenzo(a,h)anthracene	ND	.373	ND	Q2C50050
Dibenzofuran	ND	.373	ND	Q2C50050
Di-n-butyl phthalate	ND	.373	ND	Q2C50050
1,2-Dichlorobenzene	ND	.373	ND	Q2C50050
1,3-Dichlorobenzene	ND	.373	ND	Q2C50050
1,4-Dichlorobenzene	ND	.373	ND	Q2C50050
3,3'-Dichlorobenzidine	ND	.373	ND	Q2C50050
2,4-Dichlorophenol	ND	.373	ND	Q2C50050
Diethyl phthalate	ND	.373	ND	Q2C50050
Dimethyl phthalate	ND	.373	ND	Q2C50050
2,4-Dimethylphenol	ND	.373	ND	Q2C50050
4,6-Dinitro-o-cresol	ND	.933	ND	Q2C50050
2,4-Dinitrophenol	ND	1.87	ND	Q2C50050
2,4-Dinitrotoluene	ND	.373	ND	Q2C50050
2,6-Dinitrotoluene	ND	.373	ND	Q2C50050
Di-n-octyl phthalate	ND	.373	ND	Q2C50050
Fluoranthene	ND	.373	ND	Q2C50050
Fluorene	ND	.373	ND	Q2C50050
Hexachlorobenzene	ND	.373	ND	Q2C50050
Hexachlorobutadiene	ND	.373	ND	Q2C50050
Hexachlorocyclopentadiene	ND	.373	ND	Q2C50050
Hexachloroethane	ND	.373	ND	Q2C50050
Indeno(1,2,3-cd)pyrene	ND	.373	ND	Q2C50050
Isophorone	ND	.373	ND	Q2C50050
2-Methylnaphthalene	.590	.373	ND	Q2C50050
2-Methylphenol	ND	.373	ND	Q2C50050
4-Methylphenol	ND	.373	ND	Q2C50050
N-Nitrosodi-n-propylamine	ND	.373	ND	Q2C50050
N-Nitrosodiphenylamine	ND	.373	ND	Q2C50050

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEAC	JN7238

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.373	ND	Q2C50050
2-Nitroaniline	ND	.373	ND	Q2C50050
3-Nitroaniline	ND	.373	ND	Q2C50050
4-Nitroaniline	ND	.373	ND	Q2C50050
Nitrobenzene	ND	.373	ND	Q2C50050
2-Nitrophenol	ND	.373	ND	Q2C50050
4-Nitrophenol	ND	1.87	ND	Q2C50050
Pentachlorophenol	ND	.373	ND	Q2C50050
Phenanthrene	1.17	.373	ND	Q2C50050
Phenol	ND	.373	ND	Q2C50050
Pyrene	ND	.373	ND	Q2C50050
1,2,4-Trichlorobenzene	ND	.373	ND	Q2C50050
2,4,5-Trichlorophenol	ND	.373	ND	Q2C50050
2,4,6-Trichlorophenol	ND	.373	ND	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEBC	JN7239

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.389	ND	Q2C50050
Acenaphthylene	ND	.389	ND	Q2C50050
Anthracene	ND	.389	ND	Q2C50050
Benzo(a)anthracene	ND	.389	ND	Q2C50050
Benzo(b)fluoranthene	ND	.389	ND	Q2C50050
Benzo(k)fluoranthene	ND	.389	ND	Q2C50050
Benzo(ghi)perylene	ND	.389	ND	Q2C50050
Benzo(a)pyrene	ND	.389	ND	Q2C50050
bis(2-Chloroethyl) ether	ND	.389	ND	Q2C50050
bis(2-Chloroethoxy)methane	ND	.389	ND	Q2C50050
bis(2-Chloroisopropyl)ether	ND	.389	ND	Q2C50050
bis(2-Ethylhexyl)phthalate	ND	.389	ND	Q2C50050
4-Bromophenyl phenyl ether	ND	.389	ND	Q2C50050
Butyl benzyl phthalate	ND	.389	ND	Q2C50050
Carbazole	ND	.389	ND	Q2C50050
4-Chloroaniline	ND	.389	ND	Q2C50050
p-Chloro-m-cresol	ND	.389	ND	Q2C50050
2-Chloronaphthalene	ND	.389	ND	Q2C50050
2-Chlorophenol	ND	.389	ND	Q2C50050
4-Chlorophenyl phenyl ether	ND	.389	ND	Q2C50050
Chrysene	ND	.389	ND	Q2C50050
Dibenzo(a,h)anthracene	ND	.389	ND	Q2C50050
Dibenzofuran	ND	.389	ND	Q2C50050
Di-n-butyl phthalate	ND	.389	ND	Q2C50050
,2-Dichlorobenzene	ND	.389	ND	Q2C50050
1,3-Dichlorobenzene	ND	.389	ND	Q2C50050
1,4-Dichlorobenzene	ND	.389	ND	Q2C50050
3,3'-Dichlorobenzidine	ND	.389	ND	Q2C50050
2,4-Dichlorophenol	ND	.389	ND	Q2C50050
Diethyl phthalate	ND	.389	ND	Q2C50050
Dimethyl phthalate	ND	.389	ND	Q2C50050
2,4-Dimethylphenol	ND	.389	ND	Q2C50050
4,6-Dinitro-o-cresol	ND	.973	ND	Q2C50050
2,4-Dinitrophenol	ND	1.95	ND	Q2C50050
2,4-Dinitrotoluene	ND	.389	ND	Q2C50050
2,6-Dinitrotoluene	ND	.389	ND	Q2C50050
Di-n-octyl phthalate	ND	.389	ND	Q2C50050
Fluoranthene	ND	.389	ND	Q2C50050
Fluorene	ND	.389	ND	Q2C50050
Hexachlorobenzene	ND	.389	ND	Q2C50050
Hexachlorobutadiene	ND	.389	ND	Q2C50050
Hexachlorocyclopentadiene	ND	.389	ND	Q2C50050
Hexachloroethane	ND	.389	ND	Q2C50050
Indeno(1,2,3-cd)pyrene	ND	.389	ND	Q2C50050
Isophorone	ND	.389	ND	Q2C50050
2-Methylnaphthalene	ND	.389	ND	Q2C50050
2-Methylphenol	ND	.389	ND	Q2C50050
4-Methylphenol	ND	.389	ND	Q2C50050
N-Nitrosodi-n-propylamine	ND	.389	ND	Q2C50050
N-Nitrosodiphenylamine	ND	.389	ND	Q2C50050

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEBC	JN7239

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.389	ND	Q2C50050
2-Nitroaniline	ND	.389	ND	Q2C50050
3-Nitroaniline	ND	.389	ND	Q2C50050
4-Nitroaniline	ND	.389	ND	Q2C50050
Nitrobenzene	ND	.389	ND	Q2C50050
2-Nitrophenol	ND	.389	ND	Q2C50050
4-Nitrophenol	ND	1.95	ND	Q2C50050
Pentachlorophenol	ND	.389	ND	Q2C50050
Phenanthrene	ND	.389	ND	Q2C50050
Phenol	ND	.389	ND	Q2C50050
Pyrene	ND	.389	ND	Q2C50050
1,2,4-Trichlorobenzene	ND	.389	ND	Q2C50050
2,4,5-Trichlorophenol	ND	.389	ND	Q2C50050
2,4,6-Trichlorophenol	ND	.389	ND	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BECC	JN7240

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.385	ND	Q2C50050
Acenaphthylene	ND	.385	ND	Q2C50050
Anthracene	ND	.385	ND	Q2C50050
Benzo(a)anthracene	ND	.385	ND	Q2C50050
Benzo(b)fluoranthene	ND	.385	ND	Q2C50050
Benzo(k)fluoranthene	ND	.385	ND	Q2C50050
Benzo(ghi)perylene	ND	.385	ND	Q2C50050
Benzo(a)pyrene	ND	.385	ND	Q2C50050
bis(2-Chloroethyl) ether	ND	.385	ND	Q2C50050
bis(2-Chloroethoxy)methane	ND	.385	ND	Q2C50050
bis(2-Chloroisopropyl)ether	ND	.385	ND	Q2C50050
bis(2-Ethylhexyl)phthalate	ND	.385	ND	Q2C50050
4-Bromophenyl phenyl ether	ND	.385	ND	Q2C50050
Butyl benzyl phthalate	ND	.385	ND	Q2C50050
Carbazole	ND	.385	ND	Q2C50050
4-Chloroaniline	ND	.385	ND	Q2C50050
p-Chloro-m-cresol	ND	.385	ND	Q2C50050
2-Chloronaphthalene	ND	.385	ND	Q2C50050
2-Chlorophenol	ND	.385	ND	Q2C50050
4-Chlorophenyl phenyl ether	ND	.385	ND	Q2C50050
Chrysene	ND	.385	ND	Q2C50050
Dibenzo(a,h)anthracene	ND	.385	ND	Q2C50050
Dibenzofuran	ND	.385	ND	Q2C50050
Di-n-butyl phthalate	ND	.385	ND	Q2C50050
,2-Dichlorobenzene	ND	.385	ND	Q2C50050
1,3-Dichlorobenzene	ND	.385	ND	Q2C50050
1,4-Dichlorobenzene	ND	.385	ND	Q2C50050
3,3'-Dichlorobenzidine	ND	.385	ND	Q2C50050
2,4-Dichlorophenol	ND	.385	ND	Q2C50050
Diethyl phthalate	ND	.385	ND	Q2C50050
Dimethyl phthalate	ND	.385	ND	Q2C50050
2,4-Dimethylphenol	ND	.385	ND	Q2C50050
4,6-Dinitro-o-cresol	ND	.962	ND	Q2C50050
2,4-Dinitrophenol	ND	1.92	ND	Q2C50050
2,4-Dinitrotoluene	ND	.385	ND	Q2C50050
2,6-Dinitrotoluene	ND	.385	ND	Q2C50050
Di-n-octyl phthalate	ND	.385	ND	Q2C50050
Fluoranthene	ND	.385	ND	Q2C50050
Fluorene	ND	.385	ND	Q2C50050
Hexachlorobenzene	ND	.385	ND	Q2C50050
Hexachlorobutadiene	ND	.385	ND	Q2C50050
Hexachlorocyclopentadiene	ND	.385	ND	Q2C50050
Hexachloroethane	ND	.385	ND	Q2C50050
Indeno(1,2,3-cd)pyrene	ND	.385	ND	Q2C50050
Isophorone	ND	.385	ND	Q2C50050
2-Methylnaphthalene	ND	.385	ND	Q2C50050
2-Methylphenol	ND	.385	ND	Q2C50050
4-Methylphenol	ND	.385	ND	Q2C50050
N-Nitrosodi-n-propylamine	ND	.385	ND	Q2C50050
N-Nitrosodiphenylamine	ND	.385	ND	Q2C50050

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BECC	JN7240

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.385	ND	Q2C50050
2-Nitroaniline	ND	.385	ND	Q2C50050
3-Nitroaniline	ND	.385	ND	Q2C50050
4-Nitroaniline	ND	.385	ND	Q2C50050
Nitrobenzene	ND	.385	ND	Q2C50050
2-Nitrophenol	ND	.385	ND	Q2C50050
4-Nitrophenol	ND	1.92	ND	Q2C50050
Pentachlorophenol	ND	.385	ND	Q2C50050
Phenanthrene	ND	.385	ND	Q2C50050
Phenol	ND	.385	ND	Q2C50050
Pyrene	ND	.385	ND	Q2C50050
1,2,4-Trichlorobenzene	ND	.385	ND	Q2C50050
2,4,5-Trichlorophenol	ND	.385	ND	Q2C50050
2,4,6-Trichlorophenol	ND	.385	ND	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDC	JN7241

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.369	ND	Q2C50050
Acenaphthylene	ND	.369	ND	Q2C50050
Anthracene	ND	.369	ND	Q2C50050
Benzo(a)anthracene	ND	.369	ND	Q2C50050
Benzo(b)fluoranthene	ND	.369	ND	Q2C50050
Benzo(k)fluoranthene	ND	.369	ND	Q2C50050
Benzo(ghi)perylene	ND	.369	ND	Q2C50050
Benzo(a)pyrene	ND	.369	ND	Q2C50050
bis(2-Chloroethyl) ether	ND	.369	ND	Q2C50050
bis(2-Chloroethoxy)methane	ND	.369	ND	Q2C50050
bis(2-Chloroisopropyl)ether	ND	.369	ND	Q2C50050
bis(2-Ethylhexyl)phthalate	.672	.369	ND	Q2C50050
4-Bromophenyl phenyl ether	ND	.369	ND	Q2C50050
Butyl benzyl phthalate	ND	.369	ND	Q2C50050
Carbazole	ND	.369	ND	Q2C50050
4-Chloroaniline	ND	.369	ND	Q2C50050
p-Chloro-m-cresol	ND	.369	ND	Q2C50050
2-Chloronaphthalene	ND	.369	ND	Q2C50050
2-Chlorophenol	ND	.369	ND	Q2C50050
4-Chlorophenyl phenyl ether	ND	.369	ND	Q2C50050
Chrysene	ND	.369	ND	Q2C50050
Dibenzo(a,h)anthracene	ND	.369	ND	Q2C50050
Dibenzofuran	ND	.369	ND	Q2C50050
Di-n-butyl phthalate	ND	.369	ND	Q2C50050
1,2-Dichlorobenzene	ND	.369	ND	Q2C50050
1,3-Dichlorobenzene	ND	.369	ND	Q2C50050
1,4-Dichlorobenzene	ND	.369	ND	Q2C50050
3,3'-Dichlorobenzidine	ND	.369	ND	Q2C50050
2,4-Dichlorophenol	ND	.369	ND	Q2C50050
Diethyl phthalate	ND	.369	ND	Q2C50050
Dimethyl phthalate	ND	.369	ND	Q2C50050
2,4-Dimethylphenol	ND	.369	ND	Q2C50050
4,6-Dinitro-o-cresol	ND	.923	ND	Q2C50050
2,4-Dinitrophenol	ND	1.85	ND	Q2C50050
2,4-Dinitrotoluene	ND	.369	ND	Q2C50050
2,6-Dinitrotoluene	ND	.369	ND	Q2C50050
Di-n-octyl phthalate	ND	.369	ND	Q2C50050
Fluoranthene	ND	.369	ND	Q2C50050
Fluorene	ND	.369	ND	Q2C50050
Hexachlorobenzene	ND	.369	ND	Q2C50050
Hexachlorobutadiene	ND	.369	ND	Q2C50050
Hexachlorocyclopentadiene	ND	.369	ND	Q2C50050
Hexachloroethane	ND	.369	ND	Q2C50050
Indeno(1,2,3-cd)pyrene	ND	.369	ND	Q2C50050
Isophorone	ND	.369	ND	Q2C50050
2-Methylnaphthalene	ND	.369	ND	Q2C50050
2-Methylphenol	ND	.369	ND	Q2C50050
4-Methylphenol	ND	.369	ND	Q2C50050
N-Nitrosodi-n-propylamine	ND	.369	ND	Q2C50050
N-Nitrosodiphenylamine	ND	.369	ND	Q2C50050

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDC	JN7241

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.369	ND	Q2C50050
2-Nitroaniline	ND	.369	ND	Q2C50050
3-Nitroaniline	ND	.369	ND	Q2C50050
4-Nitroaniline	ND	.369	ND	Q2C50050
Nitrobenzene	ND	.369	ND	Q2C50050
2-Nitrophenol	ND	.369	ND	Q2C50050
4-Nitrophenol	ND	1.85	ND	Q2C50050
Pentachlorophenol	ND	.369	ND	Q2C50050
Phenanthrene	ND	.369	ND	Q2C50050
Phenol	ND	.369	ND	Q2C50050
Pyrene	ND	.369	ND	Q2C50050
1,2,4-Trichlorobenzene	ND	.369	ND	Q2C50050
2,4,5-Trichlorophenol	ND	.369	ND	Q2C50050
2,4,6-Trichlorophenol	ND	.369	ND	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEEC	JN7242

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.385	ND	Q2C50050
Acenaphthylene	ND	.385	ND	Q2C50050
Anthracene	ND	.385	ND	Q2C50050
Benzo(a)anthracene	ND	.385	ND	Q2C50050
Benzo(b)fluoranthene	ND	.385	ND	Q2C50050
Benzo(k)fluoranthene	ND	.385	ND	Q2C50050
Benzo(ghi)perylene	ND	.385	ND	Q2C50050
Benzo(a)pyrene	ND	.385	ND	Q2C50050
bis(2-Chloroethyl) ether	ND	.385	ND	Q2C50050
bis(2-Chloroethoxy)methane	ND	.385	ND	Q2C50050
bis(2-Chloroisopropyl)ether	ND	.385	ND	Q2C50050
bis(2-Ethylhexyl)phthalate	.938	.385	ND	Q2C50050
4-Bromophenyl phenyl ether	ND	.385	ND	Q2C50050
Butyl benzyl phthalate	ND	.385	ND	Q2C50050
Carbazole	ND	.385	ND	Q2C50050
4-Chloroaniline	ND	.385	ND	Q2C50050
p-Chloro-m-cresol	ND	.385	ND	Q2C50050
2-Chloronaphthalene	ND	.385	ND	Q2C50050
2-Chlorophenol	ND	.385	ND	Q2C50050
4-Chlorophenyl phenyl ether	ND	.385	ND	Q2C50050
Chrysene	ND	.385	ND	Q2C50050
Dibenzo(a,h)anthracene	ND	.385	ND	Q2C50050
Dibenzofuran	ND	.385	ND	Q2C50050
Di-n-butyl phthalate	ND	.385	ND	Q2C50050
,2-Dichlorobenzene	ND	.385	ND	Q2C50050
1,3-Dichlorobenzene	ND	.385	ND	Q2C50050
1,4-Dichlorobenzene	ND	.385	ND	Q2C50050
3,3'-Dichlorobenzidine	ND	.385	ND	Q2C50050
2,4-Dichlorophenol	ND	.385	ND	Q2C50050
Diethyl phthalate	ND	.385	ND	Q2C50050
Dimethyl phthalate	ND	.385	ND	Q2C50050
2,4-Dimethylphenol	ND	.385	ND	Q2C50050
4,6-Dinitro-o-cresol	ND	.962	ND	Q2C50050
2,4-Dinitrophenol	ND	1.92	ND	Q2C50050
2,4-Dinitrotoluene	ND	.385	ND	Q2C50050
2,6-Dinitrotoluene	ND	.385	ND	Q2C50050
Di-n-octyl phthalate	ND	.385	ND	Q2C50050
Fluoranthene	ND	.385	ND	Q2C50050
Fluorene	ND	.385	ND	Q2C50050
Hexachlorobenzene	ND	.385	ND	Q2C50050
Hexachlorobutadiene	ND	.385	ND	Q2C50050
Hexachlorocyclopentadiene	ND	.385	ND	Q2C50050
Hexachloroethane	ND	.385	ND	Q2C50050
Indeno(1,2,3-cd)pyrene	ND	.385	ND	Q2C50050
Isophorone	ND	.385	ND	Q2C50050
2-Methylnaphthalene	1.12	.385	ND	Q2C50050
2-Methylphenol	ND	.385	ND	Q2C50050
4-Methylphenol	ND	.385	ND	Q2C50050
N-Nitrosodi-n-propylamine	ND	.385	ND	Q2C50050
N-Nitrosodiphenylamine	ND	.385	ND	Q2C50050

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEEC	JN7242

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.385	ND	Q2C50050
2-Nitroaniline	ND	.385	ND	Q2C50050
3-Nitroaniline	ND	.385	ND	Q2C50050
4-Nitroaniline	ND	.385	ND	Q2C50050
Nitrobenzene	ND	.385	ND	Q2C50050
2-Nitrophenol	ND	.385	ND	Q2C50050
4-Nitrophenol	ND	1.92	ND	Q2C50050
Pentachlorophenol	ND	.385	ND	Q2C50050
Phenanthrene	.715	.385	ND	Q2C50050
Phenol	ND	.385	ND	Q2C50050
Pyrene	ND	.385	ND	Q2C50050
1,2,4-Trichlorobenzene	ND	.385	ND	Q2C50050
2,4,5-Trichlorophenol	ND	.385	ND	Q2C50050
2,4,6-Trichlorophenol	ND	.385	ND	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEFC	JN7243

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.382	ND	Q2C50050
Acenaphthylene	ND	.382	ND	Q2C50050
Anthracene	ND	.382	ND	Q2C50050
Benzo(a)anthracene	ND	.382	ND	Q2C50050
Benzo(b)fluoranthene	ND	.382	ND	Q2C50050
Benzo(k)fluoranthene	ND	.382	ND	Q2C50050
Benzo(ghi)perylene	ND	.382	ND	Q2C50050
Benzo(a)pyrene	ND	.382	ND	Q2C50050
bis(2-Chloroethyl) ether	ND	.382	ND	Q2C50050
bis(2-Chloroethoxy)methane	ND	.382	ND	Q2C50050
bis(2-Chloroisopropyl)ether	ND	.382	ND	Q2C50050
bis(2-Ethylhexyl)phthalate	ND	.382	ND	Q2C50050
4-Bromophenyl phenyl ether	ND	.382	ND	Q2C50050
Butyl benzyl phthalate	ND	.382	ND	Q2C50050
Carbazole	ND	.382	ND	Q2C50050
4-Chloroaniline	ND	.382	ND	Q2C50050
p-Chloro-m-cresol	ND	.382	ND	Q2C50050
2-Chloronaphthalene	ND	.382	ND	Q2C50050
2-Chlorophenol	ND	.382	ND	Q2C50050
4-Chlorophenyl phenyl ether	ND	.382	ND	Q2C50050
Chrysene	ND	.382	ND	Q2C50050
Dibenzo(a,h)anthracene	ND	.382	ND	Q2C50050
Dibenzofuran	ND	.382	ND	Q2C50050
Di-n-butyl phthalate	ND	.382	ND	Q2C50050
,2-Dichlorobenzene	ND	.382	ND	Q2C50050
1,3-Dichlorobenzene	ND	.382	ND	Q2C50050
1,4-Dichlorobenzene	ND	.382	ND	Q2C50050
3,3'-Dichlorobenzidine	ND	.382	ND	Q2C50050
2,4-Dichlorophenol	ND	.382	ND	Q2C50050
Diethyl phthalate	ND	.382	ND	Q2C50050
Dimethyl phthalate	ND	.382	ND	Q2C50050
2,4-Dimethylphenol	ND	.382	ND	Q2C50050
4,6-Dinitro-o-cresol	ND	.954	ND	Q2C50050
2,4-Dinitrophenol	ND	1.91	ND	Q2C50050
2,4-Dinitrotoluene	ND	.382	ND	Q2C50050
2,6-Dinitrotoluene	ND	.382	ND	Q2C50050
Di-n-octyl phthalate	ND	.382	ND	Q2C50050
Fluoranthene	ND	.382	ND	Q2C50050
Fluorene	ND	.382	ND	Q2C50050
Hexachlorobenzene	ND	.382	ND	Q2C50050
Hexachlorobutadiene	ND	.382	ND	Q2C50050
Hexachlorocyclopentadiene	ND	.382	ND	Q2C50050
Hexachloroethane	ND	.382	ND	Q2C50050
Indeno(1,2,3-cd)pyrene	ND	.382	ND	Q2C50050
Isophorone	ND	.382	ND	Q2C50050
2-Methylnaphthalene	ND	.382	ND	Q2C50050
2-Methylphenol	ND	.382	ND	Q2C50050
4-Methylphenol	ND	.382	ND	Q2C50050
N-Nitrosodi-n-propylamine	ND	.382	ND	Q2C50050
N-Nitrosodiphenylamine	ND	.382	ND	Q2C50050

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEFC	JN7243

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.382	ND	Q2C50050
2-Nitroaniline	ND	.382	ND	Q2C50050
3-Nitroaniline	ND	.382	ND	Q2C50050
4-Nitroaniline	ND	.382	ND	Q2C50050
Nitrobenzene	ND	.382	ND	Q2C50050
2-Nitrophenol	ND	.382	ND	Q2C50050
4-Nitrophenol	ND	1.91	ND	Q2C50050
Pentachlorophenol	ND	.382	ND	Q2C50050
Phenanthrene	.454	.382	ND	Q2C50050
Phenol	ND	.382	ND	Q2C50050
Pyrene	ND	.382	ND	Q2C50050
1,2,4-Trichlorobenzene	ND	.382	ND	Q2C50050
2,4,5-Trichlorophenol	ND	.382	ND	Q2C50050
2,4,6-Trichlorophenol	ND	.382	ND	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDP	JN7244

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.394	ND	Q2C50050
Acenaphthylene	ND	.394	ND	Q2C50050
Anthracene	ND	.394	ND	Q2C50050
Benzo(a)anthracene	ND	.394	ND	Q2C50050
Benzo(b)fluoranthene	ND	.394	ND	Q2C50050
Benzo(k)fluoranthene	ND	.394	ND	Q2C50050
Benzo(ghi)perylene	ND	.394	ND	Q2C50050
Benzo(a)pyrene	ND	.394	ND	Q2C50050
bis(2-Chloroethyl) ether	ND	.394	ND	Q2C50050
bis(2-Chloroethoxy)methane	ND	.394	ND	Q2C50050
bis(2-Chloroisopropyl)ether	ND	.394	ND	Q2C50050
bis(2-Ethylhexyl)phthalate	.764	.394	ND	Q2C50050
4-Bromophenyl phenyl ether	ND	.394	ND	Q2C50050
Butyl benzyl phthalate	ND	.394	ND	Q2C50050
Carbazole	ND	.394	ND	Q2C50050
4-Chloroaniline	ND	.394	ND	Q2C50050
p-Chloro-m-cresol	ND	.394	ND	Q2C50050
2-Chloronaphthalene	ND	.394	ND	Q2C50050
2-Chlorophenol	ND	.394	ND	Q2C50050
4-Chlorophenyl phenyl ether	ND	.394	ND	Q2C50050
Chrysene	ND	.394	ND	Q2C50050
Dibenzo(a,h)anthracene	ND	.394	ND	Q2C50050
Dibenzofuran	ND	.394	ND	Q2C50050
Di-n-butyl phthalate	ND	.394	ND	Q2C50050
,2-Dichlorobenzene	ND	.394	ND	Q2C50050
1,3-Dichlorobenzene	ND	.394	ND	Q2C50050
1,4-Dichlorobenzene	ND	.394	ND	Q2C50050
3,3'-Dichlorobenzidine	ND	.394	ND	Q2C50050
2,4-Dichlorophenol	ND	.394	ND	Q2C50050
Diethyl phthalate	ND	.394	ND	Q2C50050
Dimethyl phthalate	ND	.394	ND	Q2C50050
2,4-Dimethylphenol	ND	.394	ND	Q2C50050
4,6-Dinitro-o-cresol	ND	.984	ND	Q2C50050
2,4-Dinitrophenol	ND	1.97	ND	Q2C50050
2,4-Dinitrotoluene	ND	.394	ND	Q2C50050
2,6-Dinitrotoluene	ND	.394	ND	Q2C50050
Di-n-octyl phthalate	ND	.394	ND	Q2C50050
Fluoranthene	ND	.394	ND	Q2C50050
Fluorene	ND	.394	ND	Q2C50050
Hexachlorobenzene	ND	.394	ND	Q2C50050
Hexachlorobutadiene	ND	.394	ND	Q2C50050
Hexachlorocyclopentadiene	ND	.394	ND	Q2C50050
Hexachloroethane	ND	.394	ND	Q2C50050
Indeno(1,2,3-cd)pyrene	ND	.394	ND	Q2C50050
Isophorone	ND	.394	ND	Q2C50050
2-Methylnaphthalene	1.56	.394	ND	Q2C50050
2-Methylphenol	ND	.394	ND	Q2C50050
4-Methylphenol	ND	.394	ND	Q2C50050
N-Nitrosodi-n-propylamine	ND	.394	ND	Q2C50050
N-Nitrosodiphenylamine	ND	.394	ND	Q2C50050

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEDP	JN7244

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.394	ND	Q2C50050
2-Nitroaniline	ND	.394	ND	Q2C50050
3-Nitroaniline	ND	.394	ND	Q2C50050
4-Nitroaniline	ND	.394	ND	Q2C50050
Nitrobenzene	ND	.394	ND	Q2C50050
2-Nitrophenol	ND	.394	ND	Q2C50050
4-Nitrophenol	ND	1.97	ND	Q2C50050
Pentachlorophenol	ND	.394	ND	Q2C50050
Phenanthrene	.701	.394	ND	Q2C50050
Phenol	ND	.394	ND	Q2C50050
Pyrene	ND	.394	ND	Q2C50050
1,2,4-Trichlorobenzene	ND	.394	ND	Q2C50050
2,4,5-Trichlorophenol	ND	.394	ND	Q2C50050
2,4,6-Trichlorophenol	ND	.394	ND	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Joblink # 617428

Reference		Title
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable
8020	SW-846	Aromatic Volatile Organics by GC
8270	SW-846	GC/MS for Semivolatile Organics: Capillary Column Technique

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

Laboratory Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- o US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

Approvals:

- o Chemical Waste Management ..... Waste Characterization Analysis
- o Envirosafe ..... Waste Characterization Analysis
- o USDA ..... Permit for Importing Soils
- o Florida DEP ..... Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center ..... Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample (Tedlar Bag)
ug/smp	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act
SOW	=	Statement of Work

Quality Assurance Data

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene	ND	94	ND	91	3	Q2W4158
Ethylbenzene	ND	92	ND	71	4	Q2W4158
Toluene	ND	94	ND	88	12	Q2W4158
Xylenes	ND	93	.001	70	5	Q2W4158

Quality Assurance Data

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene	ND	102	ND	102	4	Q2W4161
Ethylbenzene	ND	101	.276	102	2	Q2W4161
Toluene	ND	100	ND	103	4	Q2W4161
Xylenes	ND	101	ND	122	9	Q2W4161

QUALITY ASSURANCE DATA

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Petroleum Hydrocarbons (IR)	ND	90	534	-	-	Q2T50051

Matrix spike recoveries are not available due to the dilution of the QC matrix spike sample extracts during analysis.

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene	ND	72	ND	108	9	Q2C50050
p-Chloro-m-cresol	ND	72	ND	116	15	Q2C50050
2-Chlorophenol	ND	66	ND	122	14	Q2C50050
1,4-Dichlorobenzene	ND	70	ND	111	16	Q2C50050
2,4-Dinitrotoluene	ND	74	ND	41	81	Q2C50050
N-Nitrosodi-n-propylamine	ND	70	ND	139	22	Q2C50050
4-Nitrophenol	ND	77	ND	118	52	Q2C50050
Pentachlorophenol	ND	85	ND	-	-	Q2C50050
Phenol	ND	60	ND	115	9	Q2C50050
Pyrene	ND	74	ND	128	4	Q2C50050
1,2,4-Trichlorobenzene	ND	75	ND	122	9	Q2C50050

3-Methyl- and 4-Methylphenol coelute and are reported as the total

Variable QC matrix spike recoveries were attributed to sample matrix interference.

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
QC BATCH: Q2C50050 Solid (Semi-Volatile organics by MS)							
SAMPLE ID							
BLANK	75	84	75	85	83	77	0
BLANK SPIKE	78	79	87	79	82	86	0
EXAR66C1C MD	100 D	126 D	74 D	101 D	127 D	129 D	0
EXAR66C1C MS	120 D	137 D	99 D	119 D	144 D	131 D	0
SBAR63BEAC	55	67	52	68	92	74	0
SBAR63BEBC	66	77	35	69	73	76	0
SBAR63BECC	63	72	38	66	67	70	0
SBAR63BEDC	55	66	100	53	69	64	0
SBAR63BEDP	77	83	87	86	89	69	0
SBAR63BEEC	74	80	75	79	93	71	0
SBAR63BEFC	74	80	70	75	79	76	0
QC LIMITS	(25-121)	(24-113)	(19-122)	(23-120)	(30-115)	(18-137)	

SURROGATE ID	A228	# OUT
QC BATCH: Q2W4158 Solid (Volatile organics by GC)		
SAMPLE ID		
14031 MD	79	0
14031 MS	84	0
BLANK	98	0
BLANK SPIKE	92	0
SBAR63BEAG	106	0
SBAR63BEBG	98	0
SBAR63BECG	93	0
SBAR63BEDG	100	0
SBAR63BEFG	106	0
QC LIMITS	(30-130)	

SURROGATE ID	A228	# OUT
QC BATCH: Q2W4161 Solid (Volatile organics by GC)		
SAMPLE ID		
BLANK	100	0
BLANK SPIKE	103	0
SBAR63BEDU	103	0
SBAR63BEDU MD	100	0
SBAR63BEDU MS	107	0
SBAR63BEEG	98	0
QC LIMITS	(30-130)	

SURROGATE ID

A159 = 2-Fluorophenol
B732 = Phenol-D6
A121 = 2,4,6-Tribromophenol
A884 = Nitrobenzene-D5
A158 = 2-Fluorobiphenyl
B142 = Terphenyl-D14
A228 = a,a,a-Trifluorotoluene

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
F Technical Services
Rev. 08/89

No. 107782

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Ft Devens
PROJECT LOCATION: Ayer Ma
PROJ. NO.: 16208
PROJECT CONTACT: Mike Quinlan
PROJECT TELEPHONE NO.: (508) 772-2019
CLIENT'S REPRESENTATIVE: Tim Coleman USACE
PROJECT MANAGER/SUPERVISOR: Bill Snow

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): Total BNA (GC/MS) | TRPH | BTEX

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	Total BNA (GC/MS)	TRPH	BTEX	REMARKS
1	SBAR63BE AC	1.12 95	1500	✓		wet sandy clay, 9 pt composite	2x4oz	✓	✓		
2	SBAR63BE AG	1.12 95	1442		✓	wet greyish Sandy from pt SBAR63BEA1 Clay	2x40ml VOA			✓	
3	SBAR63BE BC	1-13 95	1200	✓		Tan sandy, silty mud slurry w/rocks	2x4oz	✓	✓		
4	SBAR63BE BG	1-13 95	1205		✓	TAN CLAYEY SAND Grab From SBAR63BEB1	2x40ml VOA			✓	
5	SBAR63BE CC	1-13 95	1300	✓		TAN SAND, MUD, Slurry w/some rocks	2x4oz	✓	✓		
6	SBAR63BE CG	1-13 95	1305		✓	TAN SAND W/ ROCKS Grab From SBAR63BEC1	2x40ml VOA			✓	
7	SBAR63BE DC	1-13 95	1330	✓		WET ROCKY SAND	2x4oz	✓	✓		
8	SBAR63BE DG	1-13 95	1210		✓	Grey Clay TPH ODOR Grab From SBAR63BEE1 (BO 1-13-95)	2x40ml VOA			✓	Grab BO 1-13-95 ~~DESCRIPTIONS NEED TO BE SWITCHED~~
9	SBAR63BE EG	1-13 95	1330 ~~1300~~	✓		Brown, Grey mud slurry	2x4oz	✓	✓		
10	SBAR63BE EG	1-13 95	1335 (1330 1-1395)		✓	Brown large grained Sand Grab From SBAR63BE D1	2x40ml			✓	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	[signature]	Federal Express Airbill # 1825103383	1-13 95	1730
2	1-10	Fed Ex 1825103383	[signature]	1/14/95	1235
3					
4					

REMARKS
- 3 day TAT
- Temp blank included
- preserved 4 °C
- 2-methylnaphthalene detection limit MUST AT LEAST REACH 0.7 PPM on the low end. If there is any question please call!!

SAMPLER'S SIGNATURE: [signature]

LAB COPY

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Technical Services
Rev. 08/89

No. 107784

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Fort Devens	Ayer MA

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
16208	Mike Quinlan	(508) -772-2019

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
Tim Coleman	Bill Snow

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total BNA (GC/MS)	TRPH	BTEX	REMARKS
1	SBAR63BE FC	1-13 95	1545	✓		Grey Mud w/tan silty sand slurry mixture	2x40z	✓	✓		
2	SBAR63BE FG	"	1515		✓	Grey Mud Grab from SBAR63BEFI	2x40ml VOA			✓	
3	SBAR63BE DP	"	1330 ~~1100~~ 1301-3-95	✓		Brown Grey mud slurry DUP	2x40z	✓	✓		Composite Duplicate
4	SBAR63BE ~~DG~~ DU	"	1335		✓	Grey Clay TPH 0008 DUP	2x40ml VOA			✓	Grab Duplicate
5	BO 1-13-95	"									
6		"									
7											
8											
9											
10											

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-4		182510 3383 Federal Express Airbill #	1-13 95	1730
2	1-4	Fed Ex 182510 3383		1/14/95	1235
3					
4					

REMARKS
- 3 day TAT
- Temp Blank included
- preserved at 4°C
- 2-Methylnaphthalene detection limit MUST AT LEAST REACH 0.7 PPM on the low end. If there is any questions please call!!

SAMPLER'S SIGNATURE

LAB COPY

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis Report

Client: OHM Remediation Services Corp.
Eastern Region (Hopkinton, MA)

SBAL63BE GC, GC, WB

Attn: William Snow
Ron Kenyon
Mike Quinlan

Project: 16208C - USACE; Fort Devens, MA

Sample Type(s): Liquid and Solid

Analysis Performed: Conventional and Organics

Date Sample Received: January 17, 1995

Date Order Received: January 17, 1995

Joblink(s): 617438

Reviewed and Approved by: Thomas E. Gran, Ph.D., Vice President

Date: January 23, 1995

16406 U.S. Route 224 East ■ P.O. Box 551 ■ Findlay, OH 45839-0551 ■ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- All solid sample results are reported on a "dry weight" basis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- Samples will be retained for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.
- Due to the high amount of TPHC in the unspiked sample, a matrix spike/matrix spike duplicate was not recovered. Batch acceptance is based on method spike recovery which is within QC limits.

APPENDIX A

DATA SUMMARY REPORT

DATA SUMMARY REPORT

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	**SBAR63BEGC**
ASC Sample Number:	JN7284
Sample Date:	950116
Facility Code:	016208C

Parameters	Units	
Conventional Data (CV10)		
Solids, Total	%	83.2
Total Petroleum Hydrocarbon Analysis, IR (IR00)		
Petroleum Hydrocarbons (IR)	mg/kg	143
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)		
Acenaphthene	mg/kg	<.394
Acenaphthylene	mg/kg	<.394
Anthracene	mg/kg	<.394
Benzo(a)anthracene	mg/kg	<.394
Benzo(b)fluoranthene	mg/kg	<.394
Benzo(k)fluoranthene	mg/kg	<.394
Benzo(ghi)perylene	mg/kg	<.394
Benzo(a)pyrene	mg/kg	<.394
bis(2-Chloroethyl) ether	mg/kg	<.394
bis(2-Chloroethoxy)methane	mg/kg	<.394
bis(2-Chloroisopropyl)ether	mg/kg	<.394
bis(2-Ethylhexyl)phthalate	mg/kg	1.08
4-Bromophenyl phenyl ether	mg/kg	<.394
Butyl benzyl phthalate	mg/kg	<.394
Carbazole	mg/kg	<.394
4-Chloroaniline	mg/kg	<.394
p-Chloro-m-cresol	mg/kg	<.394
2-Chloronaphthalene	mg/kg	<.394
2-Chlorophenol	mg/kg	<.394
4-Chlorophenyl phenyl ether	mg/kg	<.394
Chrysene	mg/kg	<.394
Dibenzo(a,h)anthracene	mg/kg	<.394
Dibenzofuran	mg/kg	<.394
Di-n-butyl phthalate	mg/kg	<.394
1,2-Dichlorobenzene	mg/kg	<.394
1,3-Dichlorobenzene	mg/kg	<.394
1,4-Dichlorobenzene	mg/kg	<.394
3,3'-Dichlorobenzidine	mg/kg	<.394
2,4-Dichlorophenol	mg/kg	<.394

DATA SUMMARY REPORT

DATE: 01/20/95

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	**SBAR63BEGC**
ASC Sample Number:	JN7284
Sample Date:	950116
Facility Code:	016208C

Parameters	Units	
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)		
Diethyl phthalate	mg/kg	<.394
Dimethyl phthalate	mg/kg	<.394
2,4-Dimethylphenol	mg/kg	<.394
4,6-Dinitro-o-cresol	mg/kg	<.984
2,4-Dinitrophenol	mg/kg	<1.97
2,4-Dinitrotoluene	mg/kg	<.394
2,6-Dinitrotoluene	mg/kg	<.394
Di-n-octyl phthalate	mg/kg	<.394
Fluoranthene	mg/kg	<.394
Fluorene	mg/kg	<.394
Hexachlorobenzene	mg/kg	<.394
Hexachlorobutadiene	mg/kg	<.394
Hexachlorocyclopentadiene	mg/kg	<.394
Hexachloroethane	mg/kg	<.394
Indeno(1,2,3-cd)pyrene	mg/kg	<.394
Isophorone	mg/kg	<.394
2-Methylnaphthalene	mg/kg	.421
2-Methylphenol	mg/kg	<.394
4-Methylphenol	mg/kg	<.394
N-Nitrosodi-n-propylamine	mg/kg	<.394
N-Nitrosodiphenylamine	mg/kg	<.394
Naphthalene	mg/kg	<.394
2-Nitroaniline	mg/kg	<.394
3-Nitroaniline	mg/kg	<.394
4-Nitroaniline	mg/kg	<.394
Nitrobenzene	mg/kg	<.394
2-Nitrophenol	mg/kg	<.394
4-Nitrophenol	mg/kg	<1.97
Pentachlorophenol	mg/kg	<.394
Phenanthrene	mg/kg	<.394
Phenol	mg/kg	<.394
Pyrene	mg/kg	<.394
1,2,4-Trichlorobenzene	mg/kg	<.394
2,4,5-Trichlorophenol	mg/kg	<.394
2,4,6-Trichlorophenol	mg/kg	<.394

DATA SUMMARY REPORT

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	**SBAR63BEGG**
ASC Sample Number:	JN7285
Sample Date:	950116
Facility Code:	016208C

Parameters	Units	
Conventional Data (CV10)		
Solids, Total	%	88.0
BTXE Volatile Analysis, GC, (GV33)		
Benzene	mg/kg	<.110
Ethylbenzene	mg/kg	.499
Toluene	mg/kg	<.110
Xylenes	mg/kg	.635

DATA SUMMARY REPORT

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **AR63BEWB**
ASC Sample Number: JN7286
Sample Date: 950116
Facility Code: 016208C

Parameters	Units	
BTXE Volatile Analysis, GC, (GV33)		
Benzene	mg/L	<.001
Ethylbenzene	mg/L	<.001
Toluene	mg/L	<.001
Xylenes	mg/L	<.001
Total Petroleum Hydrocarbon Analysis, IR (IR00)		
Petroleum Hydrocarbons (IR)	mg/L	<.127
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)		
Acenaphthene	mg/L	<.016
Acenaphthylene	mg/L	<.016
Anthracene	mg/L	<.016
Benzo(a)anthracene	mg/L	<.016
Benzo(b)fluoranthene	mg/L	<.016
Benzo(k)fluoranthene	mg/L	<.016
Benzo(ghi)perylene	mg/L	<.016
Benzo(a)pyrene	mg/L	<.016
bis(2-Chloroethyl) ether	mg/L	<.016
bis(2-Chloroethoxy)methane	mg/L	<.016
bis(2-Chloroisopropyl)ether	mg/L	<.016
bis(2-Ethylhexyl)phthalate	mg/L	.088
4-Bromophenyl phenyl ether	mg/L	<.016
Butyl benzyl phthalate	mg/L	<.016
Carbazole	mg/L	<.016
4-Chloroaniline	mg/L	<.016
p-Chloro-m-cresol	mg/L	<.016
2-Chloronaphthalene	mg/L	<.016
2-Chlorophenol	mg/L	<.016
4-Chlorophenyl phenyl ether	mg/L	<.016
Chrysene	mg/L	<.016
Dibenzo(a,h)anthracene	mg/L	<.016
Dibenzofuran	mg/L	<.016
Di-n-butyl phthalate	mg/L	<.016
1,2-Dichlorobenzene	mg/L	<.016
1,3-Dichlorobenzene	mg/L	<.016

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **AR63BEWB**
ASC Sample Number: JN7286
Sample Date: 950116
Facility Code: 016208C

Parameters	Units	
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)		
1,4-Dichlorobenzene	mg/L	<.016
3,3'-Dichlorobenzidine	mg/L	<.016
2,4-Dichlorophenol	mg/L	<.016
Diethyl phthalate	mg/L	<.016
Dimethyl phthalate	mg/L	<.016
2,4-Dimethylphenol	mg/L	<.016
4,6-Dinitro-o-cresol	mg/L	<.040
2,4-Dinitrophenol	mg/L	<.081
2,4-Dinitrotoluene	mg/L	<.016
2,6-Dinitrotoluene	mg/L	<.016
Di-n-octyl phthalate	mg/L	<.016
Fluoranthene	mg/L	<.016
Fluorene	mg/L	<.016
Hexachlorobenzene	mg/L	<.016
Hexachlorobutadiene	mg/L	<.016
Hexachlorocyclopentadiene	mg/L	<.016
Hexachloroethane	mg/L	<.016
Indeno(1,2,3-cd)pyrene	mg/L	<.016
Isophorone	mg/L	<.016
2-Methylnaphthalene	mg/L	<.016
2-Methylphenol	mg/L	<.016
4-Methylphenol	mg/L	<.016
N-Nitrosodi-n-propylamine	mg/L	<.016
N-Nitrosodiphenylamine	mg/L	<.016
Naphthalene	mg/L	<.016
2-Nitroaniline	mg/L	<.016
3-Nitroaniline	mg/L	<.016
4-Nitroaniline	mg/L	<.016
Nitrobenzene	mg/L	<.016
2-Nitrophenol	mg/L	<.016
4-Nitrophenol	mg/L	<.081
Pentachlorophenol	mg/L	<.016
Phenanthrene	mg/L	<.016
Phenol	mg/L	<.016
Pyrene	mg/L	<.016

DATA SUMMARY REPORT

DATE: 01/20/95

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **AR63BEWB**
ASC Sample Number: JN7286
Sample Date: 950116
Facility Code: 016208C

Parameters	Units	
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)		
1,2,4-Trichlorobenzene	mg/L	<.016
2,4,5-Trichlorophenol	mg/L	<.016
2,4,6-Trichlorophenol	mg/L	<.016

APPENDIX B

QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEGC	JN7284

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	%	83.2	.100	-	

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEGG	JN7285

Compounds		**Sample Results**	Detection Limits	Blank Results	Batch Number
Solids, Total	%	88.0	.100	-	

BTXE Volatile Analysis, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEGG	JN7285

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene	ND	.110	ND	Q2W4171
Ethylbenzene	.499	.110	ND	Q2W4171
Toluene	ND	.110	ND	Q2W4171
Xylenes	.635	.110	ND	Q2W4171

BTXE VOLATILE ANALYSIS, GC, (GV33)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEWB	JN7286

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene	ND	.001	ND	Q1W4163
Ethylbenzene	ND	.001	ND	Q1W4163
Toluene	ND	.001	ND	Q1W4163
Xylenes	ND	.001	ND	Q1W4163

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEGC	JN7284

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	143	40.0	ND	Q2T50063

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEWB	JN7286

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Petroleum Hydrocarbons (IR)	ND	.127	ND	P1T50048

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEGC	JN7284

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene	ND	.394	ND	Q2C50042
Acenaphthylene	ND	.394	ND	Q2C50042
Anthracene	ND	.394	ND	Q2C50042
Benzo(a)anthracene	ND	.394	ND	Q2C50042
Benzo(b)fluoranthene	ND	.394	ND	Q2C50042
Benzo(k)fluoranthene	ND	.394	ND	Q2C50042
Benzo(ghi)perylene	ND	.394	ND	Q2C50042
Benzo(a)pyrene	ND	.394	ND	Q2C50042
bis(2-Chloroethyl) ether	ND	.394	ND	Q2C50042
bis(2-Chloroethoxy)methane	ND	.394	ND	Q2C50042
bis(2-Chloroisopropyl)ether	ND	.394	ND	Q2C50042
bis(2-Ethylhexyl)phthalate	1.08	.394	ND	Q2C50042
4-Bromophenyl phenyl ether	ND	.394	ND	Q2C50042
Butyl benzyl phthalate	ND	.394	ND	Q2C50042
Carbazole	ND	.394	ND	Q2C50042
4-Chloroaniline	ND	.394	ND	Q2C50042
p-Chloro-m-cresol	ND	.394	ND	Q2C50042
2-Chloronaphthalene	ND	.394	ND	Q2C50042
2-Chlorophenol	ND	.394	ND	Q2C50042
4-Chlorophenyl phenyl ether	ND	.394	ND	Q2C50042
Chrysene	ND	.394	ND	Q2C50042
Dibenzo(a,h)anthracene	ND	.394	ND	Q2C50042
Dibenzofuran	ND	.394	ND	Q2C50042
Di-n-butyl phthalate	ND	.394	ND	Q2C50042
',2-Dichlorobenzene	ND	.394	ND	Q2C50042
1,3-Dichlorobenzene	ND	.394	ND	Q2C50042
1,4-Dichlorobenzene	ND	.394	ND	Q2C50042
3,3'-Dichlorobenzidine	ND	.394	ND	Q2C50042
2,4-Dichlorophenol	ND	.394	ND	Q2C50042
Diethyl phthalate	ND	.394	ND	Q2C50042
Dimethyl phthalate	ND	.394	ND	Q2C50042
2,4-Dimethylphenol	ND	.394	ND	Q2C50042
4,6-Dinitro-o-cresol	ND	.984	ND	Q2C50042
2,4-Dinitrophenol	ND	1.97	ND	Q2C50042
2,4-Dinitrotoluene	ND	.394	ND	Q2C50042
2,6-Dinitrotoluene	ND	.394	ND	Q2C50042
Di-n-octyl phthalate	ND	.394	ND	Q2C50042
Fluoranthene	ND	.394	ND	Q2C50042
Fluorene	ND	.394	ND	Q2C50042
Hexachlorobenzene	ND	.394	ND	Q2C50042
Hexachlorobutadiene	ND	.394	ND	Q2C50042
Hexachlorocyclopentadiene	ND	.394	ND	Q2C50042
Hexachloroethane	ND	.394	ND	Q2C50042
Indeno(1,2,3-cd)pyrene	ND	.394	ND	Q2C50042
Isophorone	ND	.394	ND	Q2C50042
2-Methylnaphthalene	.421	.394	ND	Q2C50042
2-Methylphenol	ND	.394	ND	Q2C50042
4-Methylphenol	ND	.394	ND	Q2C50042
N-Nitrosodi-n-propylamine	ND	.394	ND	Q2C50042
N-Nitrosodiphenylamine	ND	.394	ND	Q2C50042

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	SBAR63BEGC	JN7284

Compounds	**Sample Results** mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene	ND	.394	ND	Q2C50042
2-Nitroaniline	ND	.394	ND	Q2C50042
3-Nitroaniline	ND	.394	ND	Q2C50042
4-Nitroaniline	ND	.394	ND	Q2C50042
Nitrobenzene	ND	.394	ND	Q2C50042
2-Nitrophenol	ND	.394	ND	Q2C50042
4-Nitrophenol	ND	1.97	ND	Q2C50042
Pentachlorophenol	ND	.394	ND	Q2C50042
Phenanthrene	ND	.394	ND	Q2C50042
Phenol	ND	.394	ND	Q2C50042
Pyrene	ND	.394	ND	Q2C50042
1,2,4-Trichlorobenzene	ND	.394	ND	Q2C50042
2,4,5-Trichlorophenol	ND	.394	ND	Q2C50042
2,4,6-Trichlorophenol	ND	.394	ND	Q2C50042

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEWB	JN7286

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acenaphthene	ND	.016	ND	P1C50034
Acenaphthylene	ND	.016	ND	P1C50034
Anthracene	ND	.016	ND	P1C50034
Benzo(a)anthracene	ND	.016	ND	P1C50034
Benzo(b)fluoranthene	ND	.016	ND	P1C50034
Benzo(k)fluoranthene	ND	.016	ND	P1C50034
Benzo(ghi)perylene	ND	.016	ND	P1C50034
Benzo(a)pyrene	ND	.016	ND	P1C50034
bis(2-Chloroethyl) ether	ND	.016	ND	P1C50034
bis(2-Chloroethoxy)methane	ND	.016	ND	P1C50034
bis(2-Chloroisopropyl)ether	ND	.016	ND	P1C50034
bis(2-Ethylhexyl)phthalate	.088	.016	ND	P1C50034
4-Bromophenyl phenyl ether	ND	.016	ND	P1C50034
Butyl benzyl phthalate	ND	.016	ND	P1C50034
Carbazole	ND	.016	ND	P1C50034
4-Chloroaniline	ND	.016	ND	P1C50034
p-Chloro-m-cresol	ND	.016	ND	P1C50034
2-Chloronaphthalene	ND	.016	ND	P1C50034
2-Chlorophenol	ND	.016	ND	P1C50034
4-Chlorophenyl phenyl ether	ND	.016	ND	P1C50034
Chrysene	ND	.016	ND	P1C50034
Dibenzo(a,h)anthracene	ND	.016	ND	P1C50034
Dibenzofuran	ND	.016	ND	P1C50034
Di-n-butyl phthalate	ND	.016	ND	P1C50034
1,2-Dichlorobenzene	ND	.016	ND	P1C50034
1,3-Dichlorobenzene	ND	.016	ND	P1C50034
1,4-Dichlorobenzene	ND	.016	ND	P1C50034
3,3'-Dichlorobenzidine	ND	.016	ND	P1C50034
2,4-Dichlorophenol	ND	.016	ND	P1C50034
Diethyl phthalate	ND	.016	ND	P1C50034
Dimethyl phthalate	ND	.016	ND	P1C50034
2,4-Dimethylphenol	ND	.016	ND	P1C50034
4,6-Dinitro-o-cresol	ND	.040	ND	P1C50034
2,4-Dinitrophenol	ND	.081	ND	P1C50034
2,4-Dinitrotoluene	ND	.016	ND	P1C50034
2,6-Dinitrotoluene	ND	.016	ND	P1C50034
Di-n-octyl phthalate	ND	.016	ND	P1C50034
Fluoranthene	ND	.016	ND	P1C50034
Fluorene	ND	.016	ND	P1C50034
Hexachlorobenzene	ND	.016	ND	P1C50034
Hexachlorobutadiene	ND	.016	ND	P1C50034
Hexachlorocyclopentadiene	ND	.016	ND	P1C50034
Hexachloroethane	ND	.016	ND	P1C50034
Indeno(1,2,3-cd)pyrene	ND	.016	ND	P1C50034
Isophorone	ND	.016	ND	P1C50034
2-Methylnaphthalene	ND	.016	ND	P1C50034
2-Methylphenol	ND	.016	ND	P1C50034
4-Methylphenol	ND	.016	ND	P1C50034
N-Nitrosodi-n-propylamine	ND	.016	ND	P1C50034
N-Nitrosodiphenylamine	ND	.016	ND	P1C50034

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	016208C	AR63BEWB	JN7286

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Naphthalene	ND	.016	ND	P1C50034
2-Nitroaniline	ND	.016	ND	P1C50034
3-Nitroaniline	ND	.016	ND	P1C50034
4-Nitroaniline	ND	.016	ND	P1C50034
Nitrobenzene	ND	.016	ND	P1C50034
2-Nitrophenol	ND	.016	ND	P1C50034
4-Nitrophenol	ND	.081	ND	P1C50034
Pentachlorophenol	ND	.016	ND	P1C50034
Phenanthrene	ND	.016	ND	P1C50034
Phenol	ND	.016	ND	P1C50034
Pyrene	ND	.016	ND	P1C50034
1,2,4-Trichlorobenzene	ND	.016	ND	P1C50034
2,4,5-Trichlorophenol	ND	.016	ND	P1C50034
2,4,6-Trichlorophenol	ND	.016	ND	P1C50034

3-Methyl- and 4-Methylphenol coelute and are reported as the total

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Joblink # 617438

REFERENCE		TITLE
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable
8020	SW-846	Aromatic Volatile Organics by GC
8270	SW-846	GC/MS for Semivolatile Organics: Capillary Column Technique

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

Laboratory Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- o US Army Corps of Engineers . . . . . Chemical Analysis in Various Matrices

Approvals:

- o Chemical Waste Management . . . . . Waste Characterization Analysis
- o Envirosafe . . . . . Waste Characterization Analysis
- o USDA . . . . . Permit for Importing Soils
- o Florida DEP . . . . . Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center . . . . . Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample (Tedlar Bag)
ug/smp	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act
SOW	=	Statement of Work

Quality Assurance Data

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene	ND	93	ND	97	1	Q2W4171
Ethylbenzene	ND	96	.499	110	13	Q2W4171
Toluene	ND	96	ND	105	7	Q2W4171
Xylenes	ND	95	.635	96	1	Q2W4171

Quality Assurance Data

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene	ND	102	ND	99	3	Q1W4163
Ethylbenzene	ND	104	ND	100	3	Q1W4163
Toluene	ND	101	ND	98	2	Q1W4163
Xylenes	ND	108	ND	102	3	Q1W4163

Quality Assurance Data

Total Petroleum Hydrocarbon Analysis, IR (IR00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Petroleum Hydrocarbons (IR)	ND	78	143	-	-	Q2T50063

Matrix spike recoveries are not available due to the dilution of the QC matrix spike sample extracts during analysis.

Quality Assurance Data

Total Petroleum Hydrocarbon Analysis, IR (IR00)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Petroleum Hydrocarbons (IR)	ND	79	.118	82	1	P1T50048

QUALITY ASSURANCE DATA

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene	ND	56	ND	50	11	Q2C50042
p-Chloro-m-cresol	ND	56	ND	49	10	Q2C50042
2-Chlorophenol	ND	50	ND	45	13	Q2C50042
1,4-Dichlorobenzene	ND	54	ND	44	15	Q2C50042
2,4-Dinitrotoluene	ND	64	ND	51	8	Q2C50042
N-Nitrosodi-n-propylamine	ND	55	ND	49	10	Q2C50042
4-Nitrophenol	ND	66	ND	50	9	Q2C50042
Pentachlorophenol	ND	85	ND	30	15	Q2C50042
Phenol	ND	48	ND	43	13	Q2C50042
Pyrene	ND	58	ND	44	14	Q2C50042
1,2,4-Trichlorobenzene	ND	61	ND	55	12	Q2C50042

3-Methyl- and 4-Methylphenol coelute and are reported as the total

QUALITY ASSURANCE DATA

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene	ND	61	ND	60	4	P1C50034
p-Chloro-m-cresol	ND	59	ND	59	5	P1C50034
2-Chlorophenol	ND	55	ND	51	9	P1C50034
1,4-Dichlorobenzene	ND	48	ND	47	18	P1C50034
2,4-Dinitrotoluene	ND	70	ND	68	4	P1C50034
N-Nitrosodi-n-propylamine	ND	63	ND	60	6	P1C50034
4-Nitrophenol	ND	35	ND	53	1	P1C50034
Pentachlorophenol	ND	111	ND	118	1	P1C50034
Phenol	ND	30	ND	40	7	P1C50034
Pyrene	ND	64	ND	63	4	P1C50034
1,2,4-Trichlorobenzene	ND	55	ND	56	17	P1C50034

3-Methyl- and 4-Methylphenol coelute and are reported as the total

QUALITY ASSURANCE DATA

SURROGATE SUMMARY REPORT

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
QC BATCH: P1C50034 **Aqueous (Semi-Volatile organics by MS)**							
SAMPLE ID							
AR63BEWB	54	46	108	65	71	72	0
AR63BEWB MD	61	50	115	67	75	78	0
AR63BEWB MS	53	46	108	59	70	76	0
BLANK	47	37	99	65	67	61	0
BLANK SPIKE	49	34	102	65	73	78	0
QC LIMITS	(30-130)	(30-130)	(30-130)	(30-130)	(30-130)	(30-130)	
QC BATCH: Q2C50042 **Solid (Semi-Volatile organics by MS)**							
SAMPLE ID							
BLANK	59	67	78	64	67	56	0
BLANK SPIKE	63	63	99	61	69	72	0
SBAR63BEGC	56	64	61	60	67	56	0
SBAR63BEGC MD	58	60	59	60	64	64	0
SBAR63BEGC MS	50	53	62	52	60	56	0
QC LIMITS	(25-121)	(24-113)	(19-122)	(23-120)	(30-115)	(18-137)	

SURROGATE ID	A228	# OUT
QC BATCH: Q1W4163 **Aqueous (Volatile organics by GC)**		
SAMPLE ID		
AR63BEWB	98	0
BLANK	95	0
BLANK SPIKE	102	0
WWE011695B MD	96	0
WWE011695B MS	100	0
QC LIMITS	(30-130)	

SURROGATE ID	A228	# OUT
QC BATCH: Q2W4171 **Solid (Volatile organics by GC)**		
SAMPLE ID		
BLANK	100	0
BLANK SPIKE	98	0
SBAR63BEGG	101	0
SBAR63BEGG MD	98	0
SBAR63BEGG MS	100	0
QC LIMITS	(30-130)	

SURROGATE ID

A159 = 2-Fluorophenol
B732 = Phenol-D6
A121 = 2,4,6-Tribromophenol
A884 = Nitrobenzene-D5
A158 = 2-Fluorobiphenyl
B142 = Terphenyl-D14
A228 = a,a,a-Trifluorotoluene

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

No. 107785

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
FORT DEVENS	AYER MA

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
16209	MIKE QUINLAN	(508) - 772 - 2019

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
TIM COLEMAN	BILL SNOW

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) BNA / TOTAL (GC/MS) / BTEX / TRPH	REMARKS
1	SBARG3BE GC	1-16 95	1045	✓		Brown tan mud slurry w/rocks 13 POINT COMPOSITE	2x40Z	✓ ✓	
2	SBARG3BE GG	1-16 95	1046		✓	Brown mud w/some grey Grab from same sample point SBARG3BE GC	2x40ml VOA	✓	SOIL
3	AR63BE WB	1.16 95	1128		✓	EQUIPMENT RINSATE FOR AREE63BE 1-16-95	2x40ml 4x1L	✓ ✓ ✓	TRPH & BTEX preserved WHCH, PH <2 (P)
4									
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-3	[signature]	182 5103561 Federal Express #	1-16 95	1530
2	1-3	[signature]	[signature]	1/17/95	0955
3					
4					

REMARKS
- 3 DAY TAT
- TEMP BLANK INCLUDED
- Preserved 4°C
- Lower detection limit on BNA must at least reach 0.2 ppm for 2-methylnaphthalene. Any Questions please call.

SAMPLER'S SIGNATURE
[signature]

LAB COPY