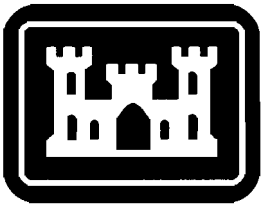

U.S. Army Corps of Engineers

Omaha District

FORMER AIR FORCE PLANT NO. 51
MONROE COUNTY
GREECE, NEW YORK

Contract No. DACA45-98-D-0004
Task Order No. 0011

INTERIM REMOVAL ACTION
AREA 1

FINAL
COMPLETION REPORT

August 2001

01M-0007

WESTON

FINAL
COMPLETION REPORT

FORMER AIR FORCE PLANT NO. 51
MONROE COUNTY
GREECE, NEW YORK

Contract No. DACA45-98-D-0004
Task Order No. 0011

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
Fort Crook Area
Rapid Response Residence Office

Prepared by:

ROY F. WESTON, INC
One Wall Street
Manchester, New Hampshire 03101-1501

August 2001

W.O. No. 20074-515-011

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APPENDICES

LIST OF FIGURES

Title **Page**

LIST OF ACRONYMS

AFB	Air Force Base
CQC	Contractor Quality Control
DCE	dichloroethene
frac	fractational
GSA	General Services Administration
HTRW	Hazardous, Toxic and Radioactive Waste
IRA	Interim Removal Action
MCWA	Monroe County Water Authority
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
Ogden	Ogden Environmental and Energy Services Co., Inc.
OSHA	Occupational Safety and Health Administration
OSR	On-Site Representative
PCBs	polychlorinated biphenyls
PPE	personal protective equipment
QC	Quality Control
SSHASP	Site-Specific Safety and Health Plan
SVOCs	semi-volatile organic compounds
TAGM	Technical and Administrative Guidance Memorandum
TCE	trichloroethene
USACE	U.S. Army Corps of Engineers
VOCs	volatile organic compounds
WESTON	Roy F. Weston, Inc.
WP	Work Plan

SECTION 1

INTRODUCTION

1. INTRODUCTION

This Final Completion Report describes the technical approach of Roy F. Weston, Inc., (WESTON®) for the work performed at the Former Air Force Plant No. 51 in Greece, New York. The work was performed under the Rapid Response/Immediate Response Contract for Control/Remediation of Hazardous, Toxic and Radioactive Waste (HTRW), under Task Order No. 11 of Contract No. DACA45-98-D-0004 for the U.S. Army Corps of Engineers (USACE).

The work for this project included the following phased tasks:

- Mobilization of construction equipment, personnel, sanitary and support equipment, and temporary office and storage trailers to the project site.
- Site preparation including rough grading of the support area, delivery of crushed gravel, preparation of haul roads and equipment staging pads, clearing and grubbing of brush and vegetation, installation of a silt fence along the perimeter of the former lagoon area, and installation of hay bale check dams in the lagoon's overflow swale.
- Removal, transportation, and disposal of the contaminated standing water from the lagoon.
- Removal, solidification, transportation, and disposal of the first 1 foot of sediment from the entire bottom of the lagoon.
- Initial pre-excavation soil sampling.
- Performance of soil borings and test pits to vertically characterize the distribution of contaminants below the former lagoon.
- Additional soil excavation down to groundwater elevation in five of the six cells.
- Final sidewall and bottom post-excavation soil and groundwater sampling.
- Site restoration including construction/installation of engineered backfill at the groundwater interface. Backfilling of the excavation above the engineered layer with imported common fill, and final grading.
- Demobilization activities including decontamination and removal of equipment, personnel, and materials and disposal of resulting wastes.

Final site restoration activities are currently scheduled to be completed in late fall (2001) to complete removal of construction fence, to perform hydro seeding of the Former lagoon area, to perform final grading, and all remaining punch list items.

For reference purposes, a photo log is included in Appendix A for each phase of work identified above.

1.1 SITE DESCRIPTION

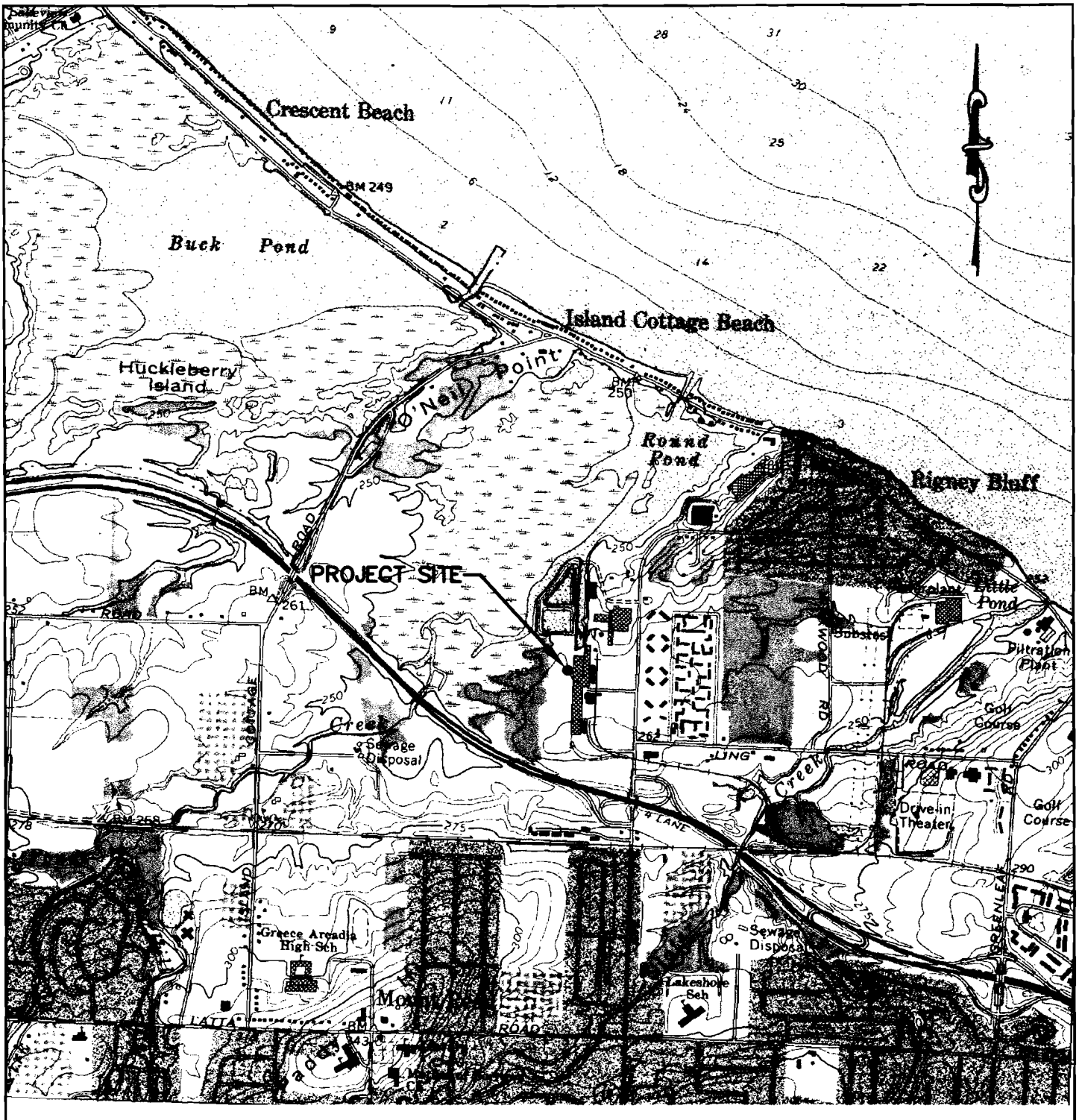
The Former Air Force Plant No. 51 is located in Greece (Monroe County), New York, north of the Lake Ontario State Parkway and adjacent to Dewey Avenue (see Figure 1-1). Between 16-19 November 1999, Ogden Environmental and Energy Services Co., Inc. (Ogden) performed a targeted Hazardous and Toxic Remedial Waste (HTRW) investigation of the site for the Omaha District, U.S. Army Corps of Engineers. The report prepared by Ogden, identified as "Final Former Air Force Plant No. 51 HTRW Investigation," dated April 2000 (the Ogden report), identified seven areas of concern at the site. Soil/sediment and surface water within Area 1 were identified as media containing contaminants of concern.

Area 1 is located northwest of the Genesee Scrap Metal main building and consists of a 14,220 sf surface impoundment (lagoon) that formerly collected the discharge water from electroplating operations. The thickly wooded lagoon is bound to the east by the historical building, to the north and west by a chain link fence, and to the south by an arbitrary site perimeter line determined by the current owner of the 4800 Dewey Avenue Associates property. (see Figure 1-2).

According to the Ogden report, the water depth of the lagoon was estimated at approximately 1 foot (this depth was confirmed based on a sitewalk performed by WESTON in September 2000). In addition, the primary receptor of contaminated surface water and sediments from Area 1 is wildlife located in the freshwater wetland area to the west of the project site. The wetlands, identified in the Ogden report as Area 2, are hydraulically connected to Area 1 by a drainage swale that extends from the western end of the lagoon. Both the Area 1 lagoon and the drainage swale, "ditch" are shown in Figure 1-2.

1.2 SITE BACKGROUND

According to the Ogden report, Air Force Plant No. 51 was built for the production of ocean-going ships during World War II. Later, the Department of Defense produced B-52 bulkheads at



SOURCE
US DEPT. OF THE INTERIOR, GEOLOGICAL SURVEY
7.5 MINUTE SERIES (TOPOGRAPHIC)
ROCHESTER WEST, N.Y., 1971 (PR 1978)
BRADDOCK HEIGHTS, N.Y., 1971 (PR 1978)

GRAPHIC SCALE
2000 1000 0 1000 2000
APPROXIMATE SCALE IN FEET

FORMER AIR FORCE PLANT NO. 51
GREECE, NEW YORK

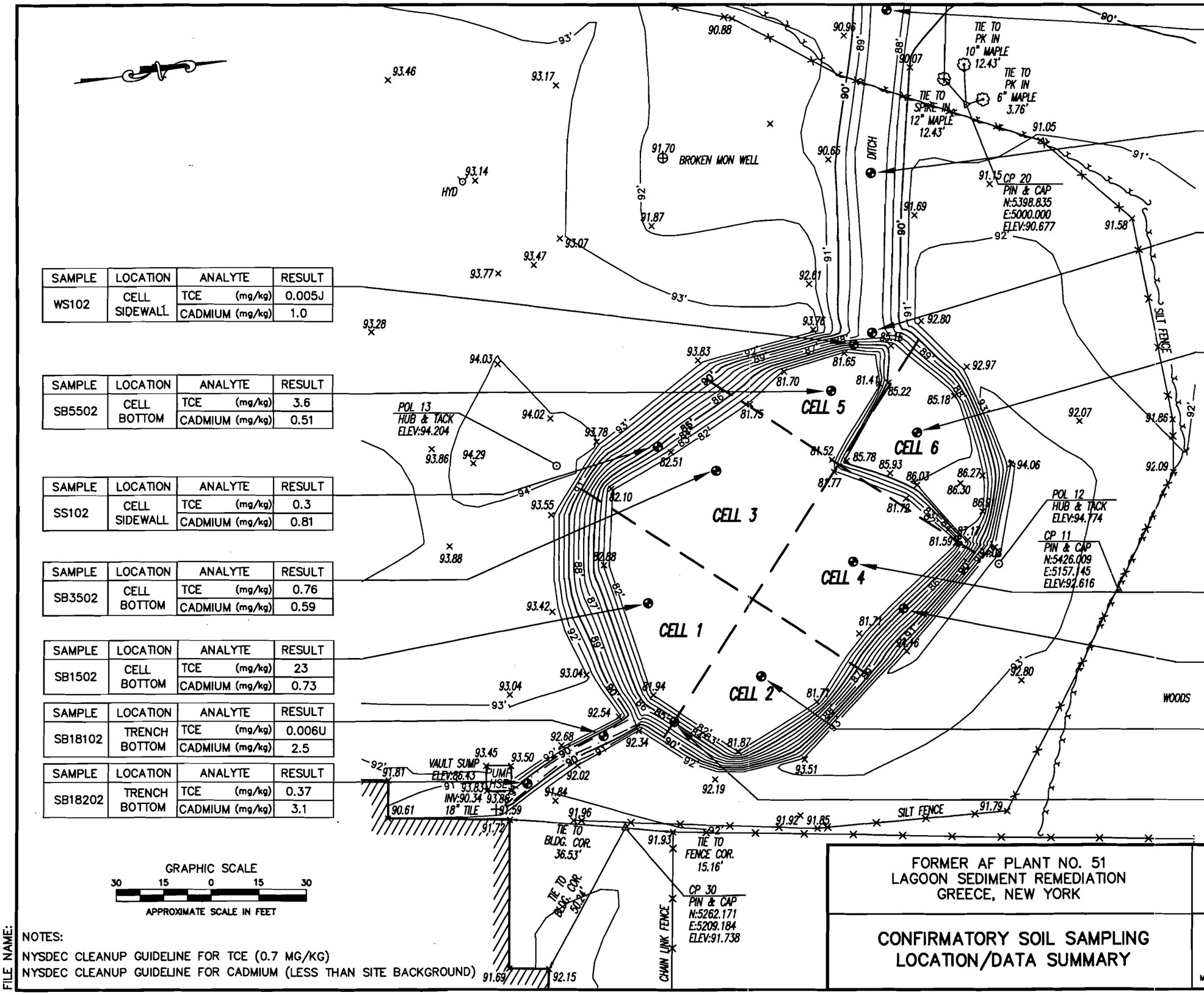
DEPARTMENT OF THE ARMY
OMAHA DISTRICT
CORPS OF ENGINEERS
OFFUTT AFB, NEBRASKA

SITE LOCATION MAP

WESTON
MANAGERS DESIGNERS/CONSULTANTS
MANCHESTER NEW HAMPSHIRE

DRAWN	BEG
DATE	AUG 2001
FIGURE NO.	1-1

M:\Design\DWG\ACOE\GREECE\FIG1-1A.DWG, Layout1, 10/18/2001 05:02:52 PM, GIRARDEB, 1:1



SAMPLE	LOCATION	ANALYTE	RESULT
WS102	CELL SIDEWALL	TCE (mg/kg)	0.005J
		CADMIUM (mg/kg)	1.0

SAMPLE	LOCATION	ANALYTE	RESULT
SB5502	CELL BOTTOM	TCE (mg/kg)	3.6
		CADMIUM (mg/kg)	0.51

SAMPLE	LOCATION	ANALYTE	RESULT
SS102	CELL SIDEWALL	TCE (mg/kg)	0.3
		CADMIUM (mg/kg)	0.81

SAMPLE	LOCATION	ANALYTE	RESULT
SB3502	CELL BOTTOM	TCE (mg/kg)	0.76
		CADMIUM (mg/kg)	0.59

SAMPLE	LOCATION	ANALYTE	RESULT
SB1502	CELL BOTTOM	TCE (mg/kg)	23
		CADMIUM (mg/kg)	0.73

SAMPLE	LOCATION	ANALYTE	RESULT
SB18102	TRENCH BOTTOM	TCE (mg/kg)	0.006U
		CADMIUM (mg/kg)	2.5

SAMPLE	LOCATION	ANALYTE	RESULT
SB18202	TRENCH BOTTOM	TCE (mg/kg)	0.37
		CADMIUM (mg/kg)	3.1

SAMPLE	LOCATION	ANALYTE	RESULT
SB7302	SWALE BOTTOM	TCE (mg/kg)	0.006U
		CADMIUM (mg/kg)	4.7

SAMPLE	LOCATION	ANALYTE	RESULT
SB7202	SWALE BOTTOM	TCE (mg/kg)	0.006U
		CADMIUM (mg/kg)	8.7

SAMPLE	LOCATION	ANALYTE	RESULT
SB7102	SWALE BOTTOM	TCE (mg/kg)	0.006U
		CADMIUM (mg/kg)	6.3

SAMPLE	LOCATION	ANALYTE	RESULT
SB6102	CELL BOTTOM	TCE (mg/kg)	0.003J
		CADMIUM (mg/kg)	16.3

SAMPLE	LOCATION	ANALYTE	RESULT
SB4502	CELL BOTTOM	TCE (mg/kg)	1900
		CADMIUM (mg/kg)	0.93

SAMPLE	LOCATION	ANALYTE	RESULT
NS102	CELL SIDEWALL	TCE (mg/kg)	0.09J
		CADMIUM (mg/kg)	1.3

SAMPLE	LOCATION	ANALYTE	RESULT
SB2502	CELL BOTTOM	TCE (mg/kg)	4.8
		CADMIUM (mg/kg)	0.84

SAMPLE	LOCATION	ANALYTE	RESULT
ES102	CELL SIDEWALL	TCE (mg/kg)	0.16
		CADMIUM (mg/kg)	0.65

GRAPHIC SCALE
30 15 0 15 30
APPROXIMATE SCALE IN FEET

NOTES:
NYSDEC CLEANUP GUIDELINE FOR TCE (0.7 MG/KG)
NYSDEC CLEANUP GUIDELINE FOR CADMIUM (LESS THAN SITE BACKGROUND)

FILE NAME: M:\Design\DWG\ACOE\GREECE\FIG2-1.DWG, Layout1, 10/18/2001 05:11:15 PM, GIRARDEB, 1:1

FORMER AF PLANT NO. 51
LAGOON SEDIMENT REMEDIATION
GREECE, NEW YORK

CONFIRMATORY SOIL SAMPLING
LOCATION/DATA SUMMARY

DEPARTMENT OF THE ARMY
OMAHA DISTRICT
CORPS OF ENGINEERS
OFFUTT AFB, NEBRASKA

WESTON MANAGERS DESIGNERS/CONSULTANTS
MANCHESTER NEW HAMPSHIRE

DRAWN BEG
DATE AUG 2001
FIGURE NO. 3-1

the site, and lastly, before its present use by a scrap metal company, it was utilized for the production of Talos ground-handling equipment.

In September 1959, care and custody of the site was accepted by the General Services Administration (GSA). On 10 March 1961 by quitclaim deed, the GSA conveyed 40.33 acres fee and 3.66 acres easement to the Monroe County Water Authority (MCWA). Later, on 7 November 1963, the Monroe County Water Authority, by quitclaim deed, conveyed 36.63 acres fee and 3.24 acres easement to 4800 Dewey Avenue, Incorporated. The firm (4800 Dewey Avenue, Inc.) currently leases the property to the Genesee Scrap and Tin Company. Genesee Scrap and Tin stores and repackages scrap and tin products for resale.

During the Ogden investigation, sediment samples were collected from three locations within Area 1 at a depth of 0 to 6 inches. The sediment samples were analyzed for total metals, volatile organic compounds (VOCs), and cyanide. In addition, three surface water samples were also collected from Area 1 and analyzed for total metals and cyanide. Based on the investigation data, contaminants detected in Area 1 sediment included trichloroethene (TCE), cis-1, 2-dichloroethene (DCE), vinyl chloride, cadmium, chromium, copper, lead, nickel, zinc, and cyanide. Contaminants detected in Area 1 surface water included TCE, cis-1, 2 DCE, vinyl chloride, cadmium, chromium, copper, and lead.

1.3 PROJECT OBJECTIVES

The primary objective of the Air Force Base (AFB) Plant 51 Interim Removal Action (IRA) was to remove the contaminated liquids and contaminated sediments from the former electroplating lagoon and to assess the contaminant concentrations following post-excavation activities. If groundwater was encountered in the excavation, it was to be sampled. The intent of the removal was to abate conditions immediately dangerous to human health and the environment. The secondary objective, established in conjunction with USACE and New York State Department of Environmental Conservation (NYSDEC) representatives, was to excavate and remove contaminant levels in sediments within the footprint of the lagoon area to NYSDEC Recommended Soil Cleanup Objectives and/or to continue excavation until the groundwater elevation was achieved.

In order to accomplish this, WESTON and USACE worked with the NYSDEC in order to reduce target contaminant concentrations for VOCs, semi-volatile organic compounds (SVOCs), and metals in the sediments to below the acceptable site cleanup guidelines. The site cleanup level for TCE was .7 mg/kg. All other VOC, and SVOC concentrations were reviewed in accordance with the Technical and Administrative Guidance Memorandum (TAGM) No. 4046 except metals samples including cadmium, which were compared with Site Background concentrations in accordance with and under the approval of NYSDEC. Additional parameters such as pesticides, and polychlorinated biphenyls (PCBs) were analyzed for but not detected in any samples.

The following time line summarizes the major planning and partnering sessions that were held among USACE, WESTON, NYSDEC, and other regulatory and local representatives to maintain project objectives throughout site remediation activities:

Date	**Meeting Type**
07/13/00	Pre-construction site visit
08/02/00	On-site information and partnering session
09/18/00	Comment review/partnering session at NYSDEC (Albany, NY)
10/10/00	On-site meeting
10/10/00	Public availability session Greece Arcadia High School
12/06/00	On-site project status meeting
01/08/00	Phase II planning conference call
05/09/01	Final site inspection

SECTION 2

SAFETY AND QUALITY CONTROL PROTOCOLS

2. SAFETY AND QUALITY CONTROL PROTOCOLS

2.1 HEALTH AND SAFETY

During the IRA, safety was established and maintained at the highest priority levels to ensure that all parties, including site management staff, craft staff, visitors, and the local community, were protected. The Work Plan (WP) and Safety Plan for the IRA were developed and approved with the guidance, input, and cooperation of USACE, New York State Department of Health (NYSDOH), NYSDEC, Town of Greece, the property owner, and the MCWA.

Site work was conducted in accordance with the safety procedures detailed in the approved Site-Specific Safety and Health Plan (SSHASP) and Work Plan. WESTON's field team was responsible for proper implementation of the approved plans. NYSDEC inspectors, NYSDOH inspectors, the property owner's representatives, town officials, and MCWA representatives periodically visited the site to review progress and to confirm compliance.

WESTON's Site Safety Officer performed the required real-time dust particulate, noise, and perimeter monitoring and record keeping to ensure compliance in accordance with state, federal, and local requirements. Daily safety meeting records, daily equipment inspection records, and air monitoring data summaries are attached to USACE Daily Quality Control (QC) Reports and are available upon request.

2.1.1 Air Monitoring

Air monitoring was conducted during intrusive activities to maintain compliance with the requirements of NYSDOH and the NYSDEC Community Air Monitoring Program. Air monitoring equipment was utilized in accordance with the procedures outlined in the Safety Plan. A total of four fixed monitoring stations were established at locations along the perimeter of the site (three downwind and one upwind). The location of the stations varied based on site-specific tasks and wind direction. At each station, VOC and airborne particulate concentrations were measured and data were logged with real-time

instrumentation. In addition to the fixed stations, the Site Safety Officer utilized real-time instruments to measure and document readings in accordance with the community air plan requirements. During site work, no exceedances of the organic vapor and airborne particulate concentrations were reported. Copies of the air monitoring data logger downloads are on file and available for review upon request.

Personal air samples were collected during the first 4 days of each phase of intrusive activities to document the potential levels of worker exposure. In addition, real-time direct reading air monitoring equipment and colorimetric chemical detector tubes were utilized to detect and quantify contaminants of concern. Based on instrument and/or detector response, personal protective equipment (PPE) was upgraded or downgraded.

2.1.2 Personal Protective Equipment

In general, the following levels of protection were utilized on-site during site remediation activities:

Task	Minimum PPE Level
Mobilization	D
Site Preparation	D
Liquids Removal	C
Sediment Removal	C
Soil Excavation	C
Sampling	C
Decontamination	Modified D
Backfilling	D
Site Restoration	D
Demobilization	D

There were no Occupational Safety and Health Administration (OSHA) recordable or Lost Time incidents during the IRA.

2.2 QUALITY CONTROL

As it relates to this project, Quality Control (QC) can be divided into two separate but interrelated functions: on-site QC, and off-site technical support QC. The on-site QC role was supervised and implemented by the Site Superintendent and field team. Key USACE

and WESTON personnel performed the off-site QC role. Specialized professional technical support was required during various phases of the IRA and key personnel within the project team provided guidance when required. The following is a listing of key QC personnel and general roles:

Key Personnel	Discipline	QC Role
On-site:		
Denzie White (USACE)	Construction	Contractor Oversight (OSR)
Steven O'Brien (WESTON)	Construction	Plan Implementation
Jim Wallis (WESTON)	Safety	Plan Implementation
Bill Schmitt (WESTON)	Cost Engineering	Plan Implementation
Off-site:		
Jim Baron (USACE)	Program Chemist	Data Validation/Tech support
Timothy Jensen (USACE)	Geotechnical	Plan review/Tech support
Andy Winslow (USACE)	Project Mgr (COR)	Data review/Tech support
George Crawford (WESTON)	CIH/Safety	Plan review/Tech support
Bill Freeman (WESTON)	Program Chemist	Data Validation/Tech support
Eric Johansen (WESTON)	Project Mgr.	Data review/Tech support
Chris Kane (WESTON)	Project Mgr.	Data review/Tech support

The on-site team consisted of the Omaha District Rapid On-Site Representative (OSR) and WESTON's field personnel. On a daily and task-specific basis, quality objectives were evaluated and reviewed with essential personnel prior to execution. The three-part quality program adopted from USACE (Preparatory, Initial, and Follow-up) was implemented to ensure conformance with the plan objectives and procedures. Quality was evaluated during execution and at each definable phase of the task being performed. Observations were documented in the daily Contractor Quality Control (CQC) reports and the site-specific logbook. In addition, photos were taken to establish permanent records of the work (see Appendix A).

Documentation of technical guidance and off-site QC review consists primarily of fax, e-mail, and telephone records of conversations. Significant phone conversation logs and correspondence are available upon request.

SECTION 3

DESCRIPTION OF WORK

3. DESCRIPTION OF WORK

3.1 MOBILIZATION

Mobilization was performed by WESTON on 10 October 2000 to initiate activities associated with the remediation of Area 1 Lagoon. This included the mobilization of staff, equipment, and materials necessary to complete all site activities.

Phased mobilization of construction and support equipment was performed to ensure timely performance of site activities in accordance with the project schedule. Mobilization and site preparation activities were coordinated in advance between the WESTON Site Manager and the Omaha District-Rapid OSR.

On 7 September 2000, prior to mobilization of construction equipment, WESTON established a grid system in the Area 1 lagoon to delineate areas targeted for sampling activities. The grid system consisted of six cells with each cell extending a lateral distance of approximately 40 wide feet by 50 feet long. A total of four pre-excavation sediment samples were collected to identify and quantify initial contaminant concentrations. The samples were obtained with a manually driven lexan tube sediment sampler. Utilizing chest waders and a Jon boat the sampling team accessed the center of Cells 1, 2, 4, and 5. The lexan tube was driven into the lagoon sediment and underlying soil through the standing water. Dense soil conditions in Cells 1, 2 and 5 limited sample penetration depth to 4-inches below the existing lagoon bottom. In Cell 4 softer soil was encountered and tube penetration extended to a depth of 12-inches.

Sediment samples were analyzed for a full waste characterization profile including: VOC, SVOC, PCB, Reactivity, Corrosivity, Flash Point, Total Metals, Cyanide and a full TCLP. Based on a review of the data, NYSDEC TAGM limits were exceeded for TCE, cis-1, 2 DCE, 4-methyl 1-2 pentanone, cadmium, chromium, manganese, selenium, and zinc. A summary of Pre-Excavation data is included in Table 1-1 (Appendix B).

3.2 SITE PREPARATION

Prior to mobilization activities, the owner removed a number of large metal structures, scattered pieces of metal debris, empty drums, and soil stockpiles from within the 250-foot by 500-foot site perimeter and rough graded the site in order to facilitate site preparation activities by WESTON. Initial site preparation activities included clearing the remaining metal debris and establishing work zones for safety purposes, constructing a haul road and staging pad, installing erosion and sedimentation controls, performing clearing and grubbing, surveying, and other ancillary tasks.

The level area of the lot was regraded and imported stone was delivered and spread along the eastern portion of the site to create a staging area for the office trailers and decontamination trailers. A separate area was also graded for vehicle parking. Additional surficial improvements included the construction of a haul road and staging area. Crushed stone was delivered and placed to allow for heavy truck access to the fractational (frac) tank staging area and to the southern edge of the lagoon where soil loading was to be performed. A 50-foot by 50-foot gravel staging pad was constructed to accommodate five 21,000-gallon frac tanks. The pad was constructed along the northwestern end of the lot adjacent to the lagoon but west of the haul road. The haul road, frac tank pad, and the majority of the staging area and parking lot were compacted with a 10-ton roller. In addition, 9-foot by 12-foot polyethylene tarps were attached to the chain link fence on the east side of the lagoon to form a wind barrier between the lagoon and the MCWA treatment plant.

Erosion and sedimentation control measures were installed at all environmentally sensitive areas, including the lagoon, swale, and trench area. Silt fence was installed approximately 40 to 50 feet back along the lagoon's north and west sides in order to allow sufficient space for heavy equipment traffic prior to clearing and grubbing. The fence also extended across the overflow swale and south across the work area along the western border of the site. Intermediate hay bale check dams were constructed and placed at three locations in the overflow swale to mitigate surface water flow and to prevent fine migration along the swale during remediation.

WESTON's Transportation & Disposal contractor, Charter Environmental, collected four liquid samples from the standing water in the lagoon on 16 October 2000 for waste characterization purposes. A treatability analysis was performed on the samples and the liquid waste disposal profile was generated in order to obtain profile approval from the treatment/disposal facility.

Concurrent with installation of erosion and sedimentation controls, clearing and grubbing of trees and underbrush from the lagoon perimeter was performed. This included removal of trees with a hydraulic shear, removal of underbrush using a hydro-axe, and grubbing of stumps using an excavator. Wood debris from the clearing activities was chipped and stockpiled while the stumps were decontaminated and ground with the aid of a grapple attachment.

A baseline topographic survey was performed on 9 October 2000 to document pre-construction site conditions relating to the lagoon and the surrounding areas. This included the collection of surface data within an area of approximately 300 feet (east to west) by 500 feet (north to south). Elevation data and other site features including the location of the lagoon, drainage ditch (swale), vault sump, monitoring wells, site office trailer, decon trailer, truck scale, perimeter chain link fence, silt fence, and staging areas were surveyed. The topographical data and structures are shown in Figure 1-2.

During site preparation activities, the drain sump located at the northwest corner of the main building was investigated. Based on a visual inspection of the drain sump, it was unclear whether discharge from the building drainage system entered into the lagoon from the drainage sump. Furthermore, the potential for installing additional storm water management controls could not be evaluated until confirmation of the drainage route from the drain sump was determined. On 16 October 2000, at the direction of the OSR, WESTON collected a representative sample of the liquid inside the drain sump. The sample was obtained by lowering a bailer into the liquid through the sump cover hatch. The sample was analyzed for waste disposal characterization parameters including: VOC, TPH, TCLP Metals and Total Cyanide. A summary of the drain sump data is shown in Table 1-2 (Appendix B).

A dye test was completed on 20 October 2000 to confirm the drainage route. Based upon a visual inspection of the dye pathway, it was noted that the system discharged to the adjacent Area 2 wetlands (located west of the chain link fence) through an 18-inch concrete outfall pipe instead of the lagoon.

Once clearing activities were completed and all staging areas had been defined, a safety fence was installed to establish the exclusion, contaminant reduction, and support zones. The decon pad was installed in the contaminant reduction zone and the staging area was established in the support zone.

3.3 LIQUIDS REMOVAL

On 23 October 2000, dewatering of the lagoon was initiated to remove approximately 1 foot of standing water above the underlying sediment. Dewatering sumps were installed on the south and west edges of the lagoon to expedite removal of the water. The sumps were utilized to pump water from the lagoon bottom into one of five 21,000-gallon on-site frac tanks. A total of five frac tanks were initially staged on-site for storage purposes; however, two of the five frac tanks were removed following the initial dewatering effort since the additional storage capacity was not required. Decontamination liquid collected during the first mobilization phase was also stored in the frac tanks. Tanker trucks with vacuum equipment were utilized to remove the final decontamination rinsate solutions from both the decon pad and frac tanks prior to shipment off-site. Liquid that was pumped and stored during the first phase of the initial dewatering effort and from decontamination events in October 2000 was transported off-site in November as stated in Subsection 3.5. Liquid generated on-site after this period was transported off-site in successive events between January and February 2001.

3.4 SEDIMENT REMOVAL AND SAMPLING

3.4.1 Phase I

Initial Characterization

Characterization samples were collected on 26 October 2000 from Cells 1-6, after the bulk dewatering of the lagoon had been completed to determine contaminant concentrations in the sediment at the bottom of the lagoon. The purpose of the sampling was to verify whether or not the initial sediment profile was affected by dewatering. The sampling was also used to evaluate if separate excavation events in each cell would be more cost effective versus performing excavation over the entire lagoon bottom following solidification. One sample was collected from the center of each cell. Each composite sample was collected at a depth of 12 inches below existing ground and analyzed for VOC's, SVOC's, PCB's, and Cyanide. A complete summary of analytical data is presented in Table 1-3 (Appendix B).

Sediment Solidification

On 30 October 2000 following dewatering of the saturated sediment, lime was added to the sediment due to the high moisture content to solidify the material for off-site transportation and disposal. Approximately 130 tons of lime were delivered in dump trailers and placed in the southeast corner of the lagoon to facilitate solids mixing. The lime was mixed into the sediment using two excavators equipped with grading buckets. A standard (CAT 320B) excavator was utilized within the lagoon footprint to remove visibly stained sediment from the bottom of the work area while mixing in a sufficient quantity of lime so that the material could be efficiently transferred without the presence of free liquids. The processed sediment and lime additive were then transferred to the south side of the lagoon where the long reach (CAT 325L) excavator mixed in additional lime to complete the solidification process. The solidified sediment was loaded into lined roll-off containers, which were staged in the support zone after loading. Separate Frac

tank and decon pad sediment material was moisture solidified through the addition of Cellutec™ cellulose absorbent media.

Initial Sediment Removal and Sampling

Once the sediment was solidified and removed to an approximate depth of 6 inches, additional excavation was performed to remove the underlying soil to a total depth of approximately 12 inches from original grade along the bottom and sidewalls of the lagoon. Initial post-excavation bottom and sidewall samples were collected from Cells 1-6 on 8 December 2000 at a depth of 12 inches BOG. One sample was collected from the bottom center and middle sidewall of each cell for a total of 12 samples. Initial post-excavation sampling results revealed that all sidewall and bottom samples exceeded the clean-up criteria for cadmium at the confirmatory depth of 1 foot. In addition, exceedances for TCE were exhibited in Cells 2 and 4. Sample locations and TCE/cadmium data are shown in Figure 3-1. A complete summary of analytical data is presented in Table 1-4 (Appendix B).

Swale Excavation and Sampling

At the direction of USACE, WESTON removed approximately 1 foot of sediment from the overflow swale on the west side of the lagoon to remove potentially contaminated surface material that may have been deposited from the lagoon. The swale bottom varies in width from approximately 15 feet (at the lagoon outlet) to approximately 6 feet at the release approximately 150 feet downstream. A total of three samples were collected from the swale at 50-foot intervals following excavation on 8 December 2000 as shown in Figure 3-1. The samples were analyzed for VOCs, semivolatile organic compounds (SVOCs), PCBs, pesticides, and metals; however, only concentrations above site background were reported for cadmium, calcium, magnesium, nickel, selenium, and zinc. A complete summary of analytical data is presented in Table 1-4 (Appendix B).

Trench Excavation and Sampling

The 18-inch influent pipe leading from the manufacturing plant to the lagoon and the concrete cradle below the influent pipe were also excavated, crushed, and disposed of with the stabilized lagoon sediments. Based on the size of the influent pipe, the resulting debris was removed from a width of approximately 24 to 30-inches wide to a depth of 4 feet at the invert elevation within the lagoon. A total of two samples were collected from the trench bottom approximately 10 feet in from the lagoon and 10 feet in from the building on 8 December 2000 as shown in Figure 3-1 for the same analytical parameters. As compared with the swale sample data, similar results were obtained from the trench sample data with exceedances reported for metals only. A complete summary of analytical data is presented in Table 1-4 (Appendix B).

Soil Borings and Sampling

Based on the exceedances for TCE and cadmium at bottom and sidewall sample locations at a depth of 1 foot, a site specific vertical delineation SOW was prepared and approved by the USACE. On 21 and 22 December 2000, soil borings were advanced into the subsurface soils in each cell of the lagoon by Nothnagle Drilling, Inc. to evaluate in-situ soil concentrations for TCE. Soil samples were collected from the post-excavation surface down two feet in Cells 1, 2, 3, 4 and 6 with a standard hollow stem auger drill rig utilizing a 3-inch diameter stainless steel split-spoon. Each six-inch interval over the first two feet was sampled. The test boring in Cell 5 was advanced to an approximate depth of 9.5 ft. BOG. In accordance with the approved vertical delineation plan, a temporary piezometer was installed and groundwater was measured at 6 feet below grade. Based on headspace readings and field observations selected intervals from each boring were analyzed for the driving contaminant of concern; TCE. The data for all soil borings is presented in Table 1-5 (Appendix B). Soil boring data from test borings in Cells 2, 3, and 4 (to 2 feet) and in Cell 5 (to GW) revealed contaminant concentrations exceeded the NYSDEC clean-up criteria for TCE. Based upon review of the data by USACE and NYSDEC, it was determined that additional testing and/or delineation were necessary in

order to evaluate contaminant concentrations further. Most of the soil encountered at depths beyond 2 feet while performing soil borings consisted mostly of coarse to fine sand with a trace of silt and fine gravel. Drilling logs for the soil borings are contained in Appendix C for reference purposes.

3.4.2 Phase II

Additional Sediment Removal

A plan of action was discussed and approved via conference call with the USACE on 8 January 2001 to continue delineation efforts. It was determined that the most efficient and cost effective solution for continued vertical characterization was through further excavation and test pitting. Based on prior post-excavation sampling data from the lagoon bottom, the second phase of soil excavation was initiated on 22 January 2001. Soil was excavated from Cells 2, 3, and 4 to an additional depth of 2 feet based on the 22 December 2000 boring data while a plan for the rapid evaluation of the lagoon's subsurface contamination was developed. TCE and cadmium concentrations were the primary constituents evaluated in determining the depth of excavation. A local laboratory was contracted to perform rapid turnaround analysis of soil samples to expedite the soil removal.

Test Pit Excavation to GW and Sampling

On 25 January 2001 the first round of test pits were advanced in the centers of Cells 1, 2, 3, 4 and 6 to the approximate groundwater elevation (6 ft. below original ground) to evaluate TCE concentrations to GW. The center of Cell 5 could not be accessed because of the location of the stabilized sediment stockpile. Test pit samples were collected at consecutive 1-foot intervals starting from three down to six feet below initial post excavation grade. The samples were sent to a local laboratory for rapid turn around analysis to expedite remedial action decisions. Samples were analyzed for the primary drivers, VOCs and metals (where applicable). The test pit data for samples collected on 25 January 2001 is presented in Table 1-5 (Appendix B). Based on a review

of the data, exceedances were reported between 3 feet and 6 feet BOG (GW elevation) in Cells 2, 3, and 4. In addition, free liquid was observed entering the test pits through fractures in the subgrade soil. A dark dense separate phase liquid was observed to be migrating into the test pits in Cells 1 and 4. Soil samples collected in Cell 1 were not analyzed due to matrix interferences with the liquid.

On 30 and 31 January 2001, additional test pits were excavated in Cells 2, 5, and 6 to complete vertical characterization of all six cells down to groundwater elevation. Test pit data for samples collected between 30 and 31 January 2001 is presented in Table 1-5 (Appendix B). Based on a review of the data, exceedances were reported in Cell 5 only to a depth of 5 feet. Data from Cells 2 and 6 was not analyzed.

Excavation to GW and Sampling

Soil from Cells 1 through 5 was excavated from initial post-excavation grade to a depth of approximately 5.5 to 6 feet due to confirmatory sample data for TCE and/or cadmium. The depth of soil removed from Cells 1 to 5 was based on the groundwater measurements in the Cell 4 test pit to a depth of 6 feet. Excavation beyond a depth of 1 to 1.5 feet was not required in Cell 6 since the NYSDEC guideline concentration for TCE and cadmium were achieved. On 3 February 2001, groundwater was observed at the approximate relative elevation of 81.61 feet.

Final Confirmatory Sampling

Based on the completion of excavation activities, final post-excavation samples were collected and analyzed for VOCs, SVOCs, PCBs, pesticides, and metals from the bottom-center of Cells 1 through 5 on 13 February 2001. These samples were collected at an elevation approximately equal to the groundwater elevation (81.61 $\pm$ 6 inches) for a total depth of approximately 5.5 to 6.0 feet from BOG. Sidewall samples were also collected for the same parameters from the north, south, east, and west sidewalls at a height of approximately 3.5 feet BOG. A complete summary of the post-excavation "second round" sample data is presented in Table 1-4 (Appendix B). Target contaminant

concentrations for TCE and cadmium are shown at each bottom and sidewall sample location in Figure 3-1. It is noted that sample number SS102 was initially analyzed and estimated at 1.0 E mg/kg for TCE in the preliminary data package. However, the final diluted sample result for TCE was .3 D mg/kg since the initial undiluted sample exceeded the instruments calibration range. A clarification for this sample can be found in Mitchems VOA Data Qualifier letter dated 19 July 2001 located in Appendix B.

Although exceedances were reported above the cleanup guideline concentrations in bottom samples, additional excavation of contaminated soil was not required since material had been removed to groundwater elevation in Cells 1-5. Groundwater at 6 feet BOG was found to contain 14,000 ug/l TCE following excavation activities. All confirmatory data was reviewed with USACE and NYSDEC representatives following completion of excavation activities. A complete summary of the groundwater analytical data is presented in Table 1-6 (Appendix B). Copies of the laboratory analytical reports are on file and are available upon request.

3.5 WASTE CHARACTERIZATION, TRANSPORTATION AND DISPOSAL

Throughout the course of the IRA, two separate waste streams (liquids and solids) were generated at the site from remediation activities. The liquids and solids were both treated as hazardous waste based on historical waste characterization and profile data.

3.5.1 Liquid Waste

Liquid waste that was generated on-site included dewatering fluid from the lagoon and decontamination fluid from the personnel decontamination trailer, the exclusion zone, and from the heavy equipment decontamination pad. The liquid disposal characterization profile was prepared based on historical data provided in the Ogden report and from generator knowledge of past site activities. Treatability samples were collected on 16 October 2000 prior to completion of the waste profile.

Between 3 November 2000 and 8 November 2000, contaminated water was transported off-site in 5,000-gallon tankers to CECOS International Inc. of Niagara Falls, New York

for disposal. The wastewater was transported offsite as RQ Hazardous Waste Liquid, Class 9, NA 3082, PG III with a D043 waste code number. A total of 42,305 gallons of water were manifested off-site during the first phase of liquid treatment and disposal.

On 12 December 2000, two of the three remaining frac tanks were cleaned. The last tank was retained on-site to store wastewater generated during excavation dewatering and decontamination activities. Between 24 January 2001 and 15 February 2001, an additional volume of 40,675 gallons of contaminated water were manifested and transported off-site to the CECOS International treatment and disposal facility to complete the second phase of liquids removal.

Based on manifest documents and site records, a total of approximately 82,980 gallons of contaminated water were generated and transported off-site during the IRA at the Former Air Force Plant 51. The water was treated at CECOS via pH adjustment, air stripping, and carbon polishing prior to disposal. Copies of the waste profile sheets, manifests and transporter and disposal facility permits are on file and are available upon request.

3.5.2 Solid Waste

Solid waste that was generated on-site included sediment and solidified material, soil excavated from the lagoon, residual solids from the cleaning of the frac tanks and the decontamination pad, and tarpaulins/PPE. The solids disposal characterization profile was based on samples collected on 26 October 2000 and generator knowledge of past site activities.

The staged sediment that was removed from the lagoon was originally targeted for transportation to the Model City facility in Buffalo, New York, for disposal. However, the sediment failed to meet Model City's acceptance criteria. As a result, the transportation and disposal of the sediment was re-evaluated during a shutdown period between 11 November 2000 and 4 December 2000 to obtain the proper approvals and authorizations for the international transportation of hazardous waste. In addition, it was determined during the shutdown period that it was more cost-effective to utilize dump trailers rather than roll-off containers to store/transport the sediment and soil.

Transportation and disposal activities for the first phase of load out were performed between 7 December 2000 and 19 December 2000. Sediment and soil were direct loaded into dump trailers for disposal. Trucks were routed into a lined loading area immediately south of the lagoon. The long reach excavator transferred material from the solidified stockpile to load the trucks directly. During this phase, approximately 75 loads totaling approximately 1,389.48 tons were transported as hazardous waste to the Horizon Landfill located in Grandes Piles, Quebec, for disposal.

Transportation and disposal activities for the second phase of load out were performed between 26 January 2001 and 13 February 2001. During this phase, approximately 159 loads totaling approximately 3,327.54 tons were transported off-site as hazardous waste to the Horizon Landfill located in Grandes Piles, Quebec for disposal.

Based on manifest documents and site records, a total of approximately 4,717 tons of hazardous wastes were generated and transported off-site for disposal during the IRA at Air Force Plant 51. The material was placed in a Maximum Security Cell within the landfill. Copies of the manifests, waste profile sheets, land ban disposal forms, transporter and disposal facility permits, USEPA Acknowledgement of Consent letter, and the Canadian authorization to import hazardous waste are on file and are available upon request.

3.6 SITE RESTORATION

Site restoration activities were initiated on 13 February 2001 following completion of excavation and loading activities at Area 1. This included the construction of a liner/fill component system at groundwater elevation in the lagoon, placement of common fill above the groundwater elevation, installation of a permeable geotextile material and 1 foot of fill in the swale, and backfilling the trench area.

Soil samples were collected from two separate borrow pits on 13 December 2000 and on 7 February 2001 to obtain confirmatory analytical data for the proposed backfill material. The sand fill supplier and common fill supplier borrow pit locations are listed below for informational purposes:

Borrow Pit No. 1	Borrow Pit No. 2
Valley Sand and Gravel 95 River Road Scottsville, NY 14546	Riccelli Enterprises North Road Scottsville, NY 14546

A total of 15 samples (representing a maximum quantity of 7,500 cy) were collected and analyzed for VOCs, SVOCs, pesticides, polychlorinated biphenyls (PCBs), and metals based on a sampling frequency of 1 sample per 500 cy to ensure that the borrow materials were suitable for use as clean fill. The borrow material analytical data was reviewed with USACE and NYSDEC prior to backfilling to ensure the background metals concentrations were acceptable. Based on a review of the data by NYSDEC, backfilling operations were approved. All offsite borrow concentrations were below TAGM limits except for metals parameters, which were approved by NYSDEC in lieu of the TAGM limits for backfilling purposes. A summary of the analytical data is contained in Table 2-1 (Appendix D). Copies of the laboratory reports for the data are on file and are available upon request. In addition, copies of all chain of custody reports are included in Appendix E.

Due to the excavation depth in Cells 1 to 5 to groundwater (approximately 5.5 to 6.0 feet), it was necessary to construct an engineered backfill system consisting of sand fill, a permeable geotextile liner material, and common fill in the lagoon. In accordance with the approved backfill design, a 1-1.5 foot layer of coarse -processed- sand was installed on the excavation bottom at groundwater elevation for a total volume of approximately 500 cy. The sand was overlaid with a 6-oz. non-woven permeable geotextile (polypropylene) material in order to allow sufficient recharge capacity for the groundwater. The geotextile was placed according to the approved design layout in an east to west orientation beginning on the south side of the lagoon proceeding north. The 15-foot-wide geotextile was overlapped a minimum of 2 feet at the seams to ensure coverage of the entire area. Following placement of the geotextile material, common backfill material was placed on top of the geotextile to the top of slope along the lagoon perimeter. The geotextile material and 1 foot of common fill were placed in the swale

from the lagoon to the perimeter fence and the trench was backfilled. Hydroseeding and/or fine grading will be performed in summer 2001.

Post-excavation limits within Area 1 were surveyed to document the vertical and lateral extent of sediment removal activities (see Figure 3-1). However, final survey data is not yet available for current backfill elevations since site restoration activities have not been completed.

3.7 DEMOBILIZATION

Following completion of backfilling activities and decontamination activities, WESTON demobilized the site. All labor, equipment, and materials were shipped offsite. Initial demobilization activities included the removal of safety fence, fence poles, and the windbreak wall along the perimeter of the site on 20 February 2001. Between 20 February 2001 and 22 February 2001, utilities were disconnected, the site office trailer was removed, construction tools and supplies were secured in the storage trailer and were shipped off-site, the portable sanitation facilities were removed from the site, and all heavy equipment was loaded and transported off-site.

SECTION 4

REFERENCES

4. REFERENCES

Day Engineering, P.C. *Preliminary Scope of Work Site Investigation*, September 1992.

Northern Ecological Associates, Inc. and Ogden Environmental and Energy Services, Inc., *Final Former Air Force Plant No. 51 HTRW Investigation*, April 2000.

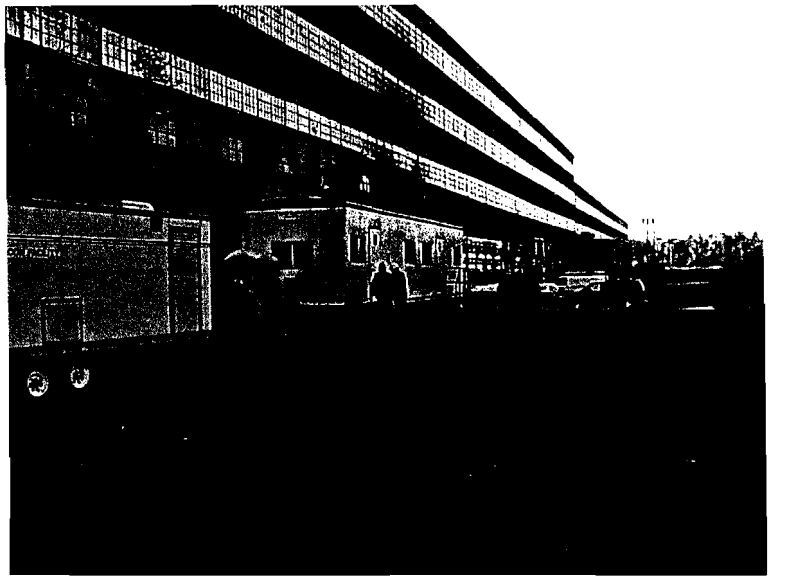
NYSDEC, Division of Water. 1998. *Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations*. Technical and Operational Guidance Series (1.1.1), (Revised January 1999, November 1999).

NYSDEC, Division of Hazardous Waste Remediation. 1994. *Revised TAGM – Determination of Soil Cleanup Objectives and Cleanup Levels*. TAGM HWR-94-4046. (January 24, 1994).

APPENDIX A

PHOTO LOG

Preconstruction

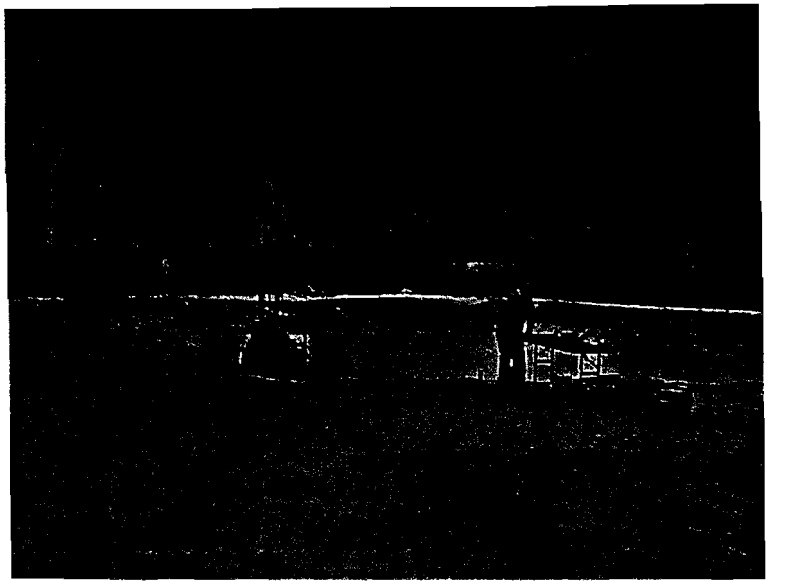


Mobilization

Site Prep

Clear & Grub

Dewatering

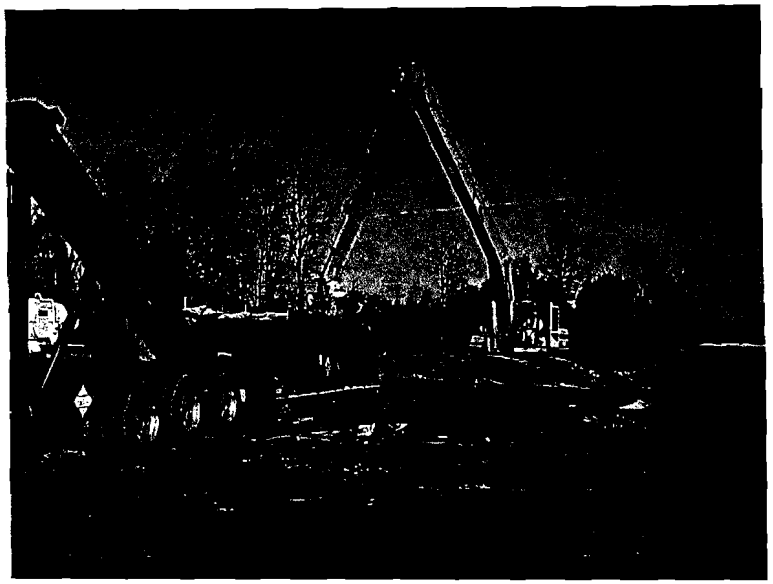


Sampling

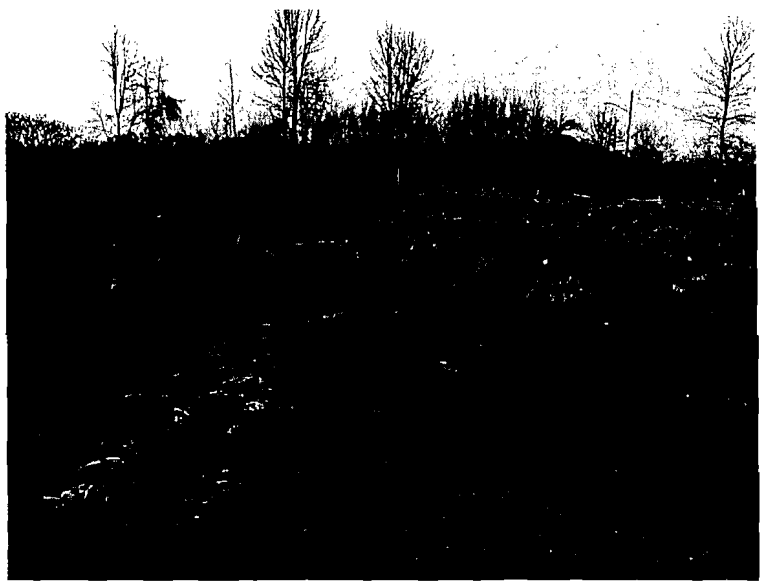
Monitoring

Sediment Stabilization

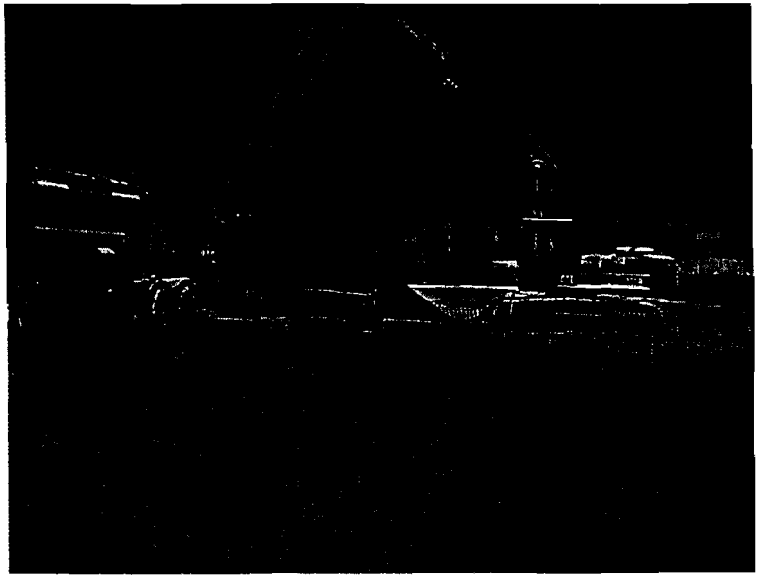
Excavating / Stockpiles



Loading



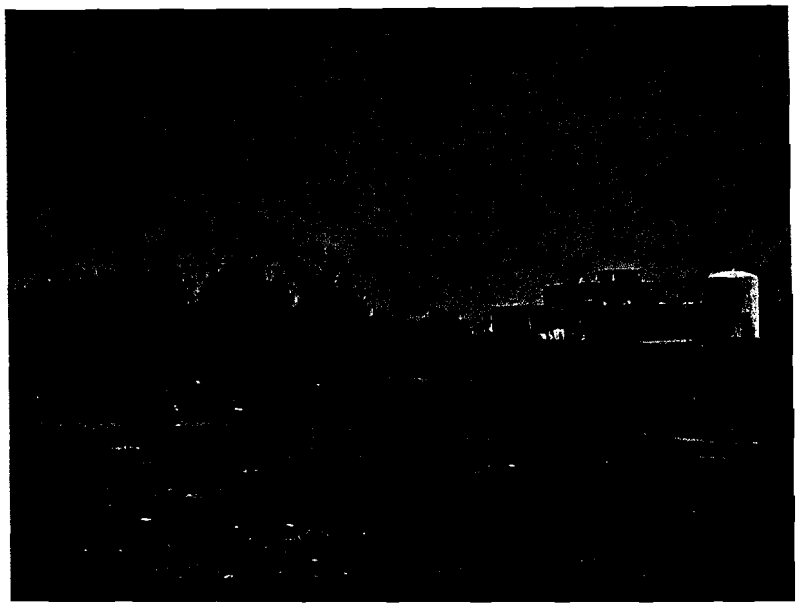
Final Excavating



Waste Disposal

Site Restoration

Rough Grade 1



Rough Grade 2

Haul Rd./Exit

APPENDIX B

SEDIMENT AND GROUND WATER ANALYTICAL DATA

Table 1-1
AF-51 Analytical Data
Area 1 Pre-Excavation

LAGOON-POST EXCAVATION CONFIRMATION SAMPLES						
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**TACM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**AFB51001104** **71442001** **09/07/2000** **Bottom (Cell 1)** **0-4 in. (BOG)** **Sediment (mg/kg)**	**AFB51002104** **71442002** **09/07/2000** **Bottom (Cell 2)** **0-4 in. (BOG)** **Sediment (mg/kg)**	**AFB51001012** **71442003** **09/07/2000** **Bottom (Cell 4)** **0-1 in. (BOG)** **Sediment (mg/kg)**	**AFB51005104** **71442004** **09/07/2000** **Bottom (Cell 5)** **0-4 in. (BOG)** **Sediment (mg/kg)**
Volatiles						
Acetone	0.20		7.2 U	30 U	0.008	0.041
Benzene	0.06		7.2 U	30 U	.006 U	.008 U
Benzoic Acid	2.70		7.2 U	30 U	.006 U	.008 U
2-Butanone	0.30		7.2 U	30 U	.006 U	.008 U
Carbon Disulfide	2.70		7.2 U	30 U	.006 U	.008 U
Carbon Tetrachloride	0.60		7.2 U	30 U	.006 U	.008 U
Chlorobenzene	1.70		7.2 U	30 U	.006 U	.008 U
Chloroethane	1.90		7.2 U	30 U	.006 U	.008 U
Chloroform	0.30		7.2 U	30 U	.006 U	.008 U
Dibromochloromethane	N/A		7.2 U	30 U	.006 U	.008 U
1,2-Dichlorobenzene	7.90		7.2 U	30 U	.006 U	.008 U
1,3-Dichlorobenzene	1.60		7.2 U	30 U	.006 U	.008 U
1,4-Dichlorobenzene	8.50		7.2 U	30 U	.006 U	.008 U
1,1-Dichloroethane	0.20		7.2 U	30 U	.006 U	.008 U
1,2-Dichloroethane	0.10		9.9	30 U	.006 U	.008 U
1,1-Dichloroethene	0.40		7.2 U	30 U	.006 U	.008 U
1,2-Dichloroethene	0.30		9.9	51	5 J	.008 U
1-3 Dichloropropane	0.30		7.2 U	30 U	.006 U	.008 U
Ethylbenzene	5.50		7.2 U	30 U	.006 U	.008 U
113 Freon (1,1,2 Trichloro-1,2,2)	6.00		7.2 U	30 U	.006 U	.008 U
Methylene Chloride	0.10		7.2 U	30 U	.006 U	.008 U
4-Methyl-2-Pentanone	1.00		7.2 U	30 U	3 J	.008 U
Tetrachloroethene	1.40		7.2 U	30 U	.006 U	.008 U
1,1,1-Trichloroethane	0.80		7.2 U	30 U	.006 U	.008 U
1,1,2,2-Tetrachloroethane	0.60		7.2 U	30 U	.006 U	.008 U
1,2,3-Trichloropropane	0.40		7.2 U	30 U	.006 U	.008 U
1,2,4-Trichlorobenzene	3.40		7.2 U	30 U	.006 U	.008 U
Toluene	1.50		7.2 U	30 U	.006 U	.008 U
Trichloroethene	0.70		140	820	0.16	.008 U
Vinyl Chloride	0.20		7.2 U	30 U	.006 U	.008 U
Xylene	1.20		7.2 U	30 U	.006 U	.008 U
Semivolatiles						
Acenaphthene	50.00		.390 U	.490U	.4 U	.5 U
Acenaphthylene	41.00		.390 U	.490U	.4 U	.5 U
Aniline	0.10		.390 U	.490U	.4 U	.5 U
Anthracene	50.00		.390 U	.490U	.4 U	.5 U
Benzo(a)anthracene	.224 or MDL		.390 U	.490U	.4 U	.5 U
Benzo (a) pyrene	.061 or MDL		.390 U	.490U	.4 U	.5 U
Benzo (b) flouranthene	1.10		.390 U	.490U	.4 U	.5 U
Benzo (g,h,I) perylene	50.00		.390 U	.490U	.4 U	.5 U
Benzo (k) flouranthene	1.10		.390 U	.490U	.4 U	.5 U
Bis (2-ethylhexyl) phthalate	50.00		.330 J	.340 J	.046 J	.095 J
Butylbenzylphthlate	50.00		.390 U	.490U	.4 U	.5 U
Chrysene	0.40		.390 U	.490U	.4 U	.5 U
4-Chloroaniline	.22 or MDL		.390 U	.490U	.4 U	.5 U
4-Chloro-3-methylphenol	.24 or MDL		.390 U	.490U	.4 U	.5 U
2-Chlorophenol	0.80		.390 U	.490U	.4 U	.5 U
Dibenzofuran	6.20		.061 J	.490U	.4 U	.5 U
Dibenzo (a,h) anthracene	.014 or MDL		.390 U	.490U	.4 U	.5 U
3,3-Dichlorobenzidine	N/A		.390 U	.490U	.4 U	.5 U
2,4 Dichlorophenol	0.40		.390 U	.490U	.4 U	.5 U
2,4-Dinitrophenol	.2 or MDL		.790 U	.990 U	.81 U	1 U
2,6-Dinitrotoluene	1.00		.390 U	.490U	.4 U	.5 U
Diethylphthalate	7.10		.390 U	.490U	.4 U	.5 U
Dimethylphthlate	2.00		.390 U	.490U	.4 U	.5 U
Di-n-butyl phthalate	8.10		.092J	.490U	.4 U	.5 U
Di-n-octyl phthlate	50.00		.390 U	.490U	.4 U	.5 U
Fluroanthene	50.00		.390 U	.490U	.4 U	.5 U
Fluorene	50.00		.049 J	.490U	.4 U	.5 U
Hexachlorobenzene	0.41		.180 J	.110 J	.4 U	.5 U
Indeno (1,2,3-cd) Pyrene	3.20		.390 U	.490U	.4 U	.5 U
Isophorone	4.40		.390 U	.490U	.4 U	.5 U
2-Methylnaphthalene	36.40		1.40	0.61	.05 J	.5 U
2-Methylphenol	.1 or MDL		.390 U	.490U	.4 U	.5 U
4-Methylphenol	0.90		.390 U	.490U	.4 U	.5 U
Napthalene	13.00		.380 J	.160 J	.4 U	.5 U

Table 1-1
AF-51 Analytical Data
Area 1 Pre-Excavation

Nitrobenzene	.2 or MDL		.390 U	.490U	.4 U	.5 U
2-Nitroaniline	.43 or MDL		.790 U	.990 U	.81 U	1 U
2-Nitrophenol	.33 or MDL		.390 U	.490U	.4 U	.5 U
4-Nitrophenol	.1 or MDL		.790 U	.990 U	.81 U	1 U
3-Nitroaniline	.5 or MDL		.790 U	.990 U	.81 U	1 U
Pentachlorophenol	1 or MDL		.790 U	.990 U	.81 U	1 U
Phenanthrene	50.00		.046 J	.490U	.4 U	.5 U
Phenol	.03 or MDL		.390 U	.490U	.4 U	.5 U
Pyrene	50.00		.390 U	.490U	.4 U	.5 U
2,4,5-Trichlorophenol	0.10		.790 U	.990 U	.81 U	1 U
PCBs (mg/kg)						
Aroclor-1016	1		.040 U	.050 U	.039 U	.052 U
Aroclor-1221	1		.040 U	.050 U	.039 U	.052 U
Aroclor-1232	1		.040 U	.050 U	.039 U	.052 U
Aroclor-1242	1		.040 U	.050 U	.039 U	.052 U
Aroclor-1248	1		.040 U	.050 U	.039 U	.052 U
Aroclor-1254	1		.040 U	.050 U	.039 U	.052 U
Aroclor-1260	1		.040 U	.050 U	.039 U	.052 U
Pesticide (mg/kg)						
Aldrin	0.041		NS	NS	NS	NS
Alpha-BHC	0.11		NS	NS	NS	NS
Beta-BHC	0.2		NS	NS	NS	NS
Delta-BHC	0.3		NS	NS	NS	NS
Chlordane	0.54		NS	NS	NS	NS
2,4-D	0.5		NS	NS	NS	NS
4,4-DDD	2.9		NS	NS	NS	NS
4,4-DDE	2.1		NS	NS	NS	NS
4,4-DDT	2.1		NS	NS	NS	NS
Dibenzo-P-dioxin	N/A		NS	NS	NS	NS
Dieldrin	0.044		NS	NS	NS	NS
Endosulfan I	0.9		NS	NS	NS	NS
Endosulfan II	0.9		NS	NS	NS	NS
Endosulfan Sulfate	1		NS	NS	NS	NS
Endrin	0.1		NS	NS	NS	NS
Endrin Keytone	N/A		NS	NS	NS	NS
Gamma-BHC	0.06		NS	NS	NS	NS
Gamma-chlordane	0.54		NS	NS	NS	NS
Heptachlor	0.1		NS	NS	NS	NS
Heptachlor epoxide	0.02		NS	NS	NS	NS
Methoxychlor	N/A		NS	NS	NS	NS
Mitotane	N/A		NS	NS	NS	NS
Parathion	1.2		NS	NS	NS	NS
Polychorinated dibenzo-furans	N/A		NS	NS	NS	NS
Metals (mg/kg)						
Aluminum	SB	33000	5600	7400	7000	6100
Antimony	SB	N/A	**ND**	**ND**	**ND**	**ND**
Arsenic	7.5 or SB	3.0-12	2	**ND**	5	**ND**
Barium	300 or SB	15-600	70	120	84	65
Beryllium	.16 or SB	0.1-75	ND	ND	ND	ND
Cadmium	1 or SB	0.1-1	**110**	710	6.60	210
Calcium	SB	130-35000	**41000**	**31000**	**32000**	**35000**
Chromium	10 or SB	1.5-40	65	1100	27	420
Cobalt	30 or SB	2.5-60	6	6	8	7
Copper	25 or SB	1000-50000	14	71	13	31
Iron	2000 or SB	000-55000	15000	14000	17000	14000
Lead	SB	200-500	30	82	10	24
Magnesium	SB	100-5000	**11000**	**6700**	**7800**	**6000**
Manganese	SB	50-5000	450	300	400	310
Mercury	0.1	0.001-0.2	ND	ND	ND	ND
Nickel	13 or SB	0.5-25	11	14	16	14
Potassium	SB	8500-11000	750	1000	670	720
Selenium	2.0 or SB	0.1-3.9	**8**	**8**	**9**	**7**
Silver	SB	N/A	ND	ND	ND	ND
Sodium	SB	6000-8000	240	370	**ND**	190
Thallium	SB	N/A	**ND**	**ND**	**ND**	**ND**
Vanadium	150 or SB	1-300	22	32	19	21
Zinc	20 or SB	9.0-50	390	680	54	270
Cyanide	N/A	N/A	2.70	6	**ND**	2

Table 1-2
AF-51 Analytical Data
Drain Sump

		Characterization
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**Technical and Operational Guidance Series Recommended GW Standards/Guidance Values (ug/l)**	**Drain Sump** **71674001** **10/16/2000** **Grab** **Not Applicable** **Water (ug/l)**
Volatiles (ug/l)		
Acetone	50.00	2 U
Benzene	1.00	5 U
Benzoic Acid	NS	5 U
2-Butanone	50.00	5 U
Carbon Disulfide	50.00	5 U
Carbon Tetrachloride	NS	5 U
Chlorobenzene	5.00	5 U
Chloroethane	5.00	5 U
Chloroform	7.00	5 U
Dibromochloromethane	5.00	5 U
1,2-Dichlorobenzene	5.00	5 U
1,3-Dichlorobenzene	5.00	5 U
1,4-Dichlorobenzene	5.00	5 U
1,1-Dichloroethane	0.60	5 U
1,2-Dichloroethane	5.00	5 U
1,1-Dichloroethene	5.00	5 U
1,2-Dichloroethene	5.00	17
1-3 Dichloropropane	5.00	5 U
Ethylbenzene	5.00	5 U
113 Freon (1,1,2 Trichloro-1,2,2)	5.00	5 U
Methylene Chloride	5.00	5 U
4-Methyl-2-Pentanone	NS	5 U
Tetrachloroethene	5.00	5 U
1,1,1-Trichloroethane	5.00	5 U
1,1,2,2-Tetrachloroethane	5.00	5 U
1,2,3-Trichloropropane	5.00	5 U
1,2,4-Trichlorobenzene	5.00	5 U
Toluene	5.00	5 U
Trichloroethene	5.00	13
Vinyl Chloride	2.00	3 J
Xylene	5.00	5 U
Hydrocarbons (mg/kg)		
Total Petroleum Hydrocarbon	NS	4.2
Total Cyanide (mg/l)		
Total Cyanide	NS	ND

Table 1-2
AF-51 Analytical Data
Drain Sump

		Characterization
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**Technical and Operational Guidance Series Recommended GW Standards/Guidance Values (ug/l)**	**Drain Sump** **71674001** **10/16/2000** **Grab** **Not Applicable** **Water (ug/l)**
Metals (mg/kg)		
Aluminum	NS	0.90
Antimony	3	**ND**
Arsenic	25	**ND**
Barium	1000	**ND**
Beryllium	3	**ND**
Cadmium	5	**ND**
Calcium	NS	39.00
Chromium	NS	ND
Cobalt	NS	ND
Copper	200	**ND**
Iron	300	0.80
Lead	25	0.02
Magnesium	35000	11.00
Manganese	300	**ND**
Mercury	0.7	**ND**
Nickel	100	**ND**
Potassium	NS	5.00
Selenium	10	**ND**
Silver	50	**ND**
Sodium	20000	11.00
Thallium	0.5	**ND**
Vanadium	NS	ND
Zinc	2000	**ND**
Cyanide	NS	ND

Table 1-3
AF-51 Analytical Data
Area 1 - Characterization

CHARACTERIZATION SAMPLES								
Sample No.	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	AFB5100SD12012	ABF5100SD22012	AFB5100SD32012	AFB5100SD42012	AFB5100SD52012	AFB5100SD62012
Laboratory Sample ID #			71742001	71742002	71742003	71742004	71742005	71742006
Sample Date			10/26/2000	10/26/2001	10/26/2001	10/26/2001	10/26/2001	10/26/2001
Sample Type			Bottom (Cell 1)	Bottom (Cell 2)	Bottom (Cell 3)	Bottom (Cell 4)	Bottom (Cell 5)	Bottom (Cell 6)
Depth (ft.)			0- 1 ft. (BOG)	0- 1 ft. (BOG)	0-1 ft. (BOG)	0-1 ft. (BOG)	0-1 ft. (BOG)	0-1 ft. (BOG)
Matrix			Sediment (mg/kg)	Sediment (mg/kg)	Sediment (mg/kg)	Sediment (mg/kg)	Sediment (mg/kg)	Sediment (mg/kg)
Volatiles								
Acetone	0.20		55 U	16 U	26 U	16 U	.039 B	.039 B
Benzene	0.06		55 U	16 U	26 U	16 U	.010 U	.008 U
Benzoic Acid	2.70		55 U	16 U	26 U	16 U	.010 U	.008 U
2-Butanone	0.30		55 U	16 U	26 U	16 U	.010 U	.008 U
Carbon Disulfide	2.70		55 U	16 U	26 U	16 U	.010 U	.008 U
Carbon Tetrachloride	0.60		55 U	16 U	26 U	16 U	.010 U	.008 U
Chlorobenzene	1.70		55 U	16 U	26 U	16 U	.010 U	.008 U
Chloroethane	1.90		55 U	16 U	26 U	16 U	.010 U	.008 U
Chloroform	0.30		55 U	16 U	26 U	16 U	.010 U	.008 U
Dibromochloromethane	N/A		55 U	16 U	26 U	16 U	.010 U	.008 U
1,2-Dichlorobenzene	7.90		55 U	16 U	26 U	16 U	.010 U	.008 U
1,3-Dichlorobenzene	1.60		55 U	16 U	26 U	16 U	.010 U	.008 U
1,4-Dichlorobenzene	8.50		55 U	16 U	26 U	16 U	.010 U	.008 U
1,1-Dichloroethane	0.20		55 U	16 U	26 U	16 U	.010 U	.008 U
1,2-Dichloroethane	0.10		55 U	16 U	26 U	16 U	.010 U	.008 U
1,1-Dichloroethene	0.40		55 U	16 U	26 U	16 U	0.004 J	.008 U
1,2-Dichloroethene	0.30		55 U	16 U	26 U	16 U	.010 U	.008 U
1-3 Dichloropropane	0.30		55 U	16 U	26 U	16 U	.010 U	.008 U
Ethylbenzene	5.50		55 U	16 U	26 U	16 U	.010 U	.008 U
113 Freon (1,1,2 Trichloro-1,2	6.00		55 U	16 U	26 U	16 U	.010 U	.008 U
Methylene Chloride	0.10		55 U	16 U	26 U	16 U	.010 U	.008 U
4-Methyl-2-Pentanone	1.00		55 U	16 U	26 U	16 U	.010 U	.008 U
Tetrachloroethene	1.40		55 U	16 U	26 U	16 U	.010 U	.008 U
1,1,1-Trichloroethane	0.80		55 U	16 U	26 U	16 U	.010 U	.008 U
1,1,2,2-Tetrachloroethane	0.60		55 U	16 U	26 U	16 U	.010 U	.008 U
1,2,3-Trichloropropane	0.40		55 U	16 U	26 U	16 U	.010 U	.008 U
1,2,4-Trichlorobenzene	3.40		55 U	16 U	26 U	16 U	.010 U	.008 U
Toluene	1.50		55 U	16 U	26 U	16 U	.010 U	.008 U
Trichloroethene	0.70		74	180	410	380	0.031B	.099 B
Vinyl Chloride	0.20		55 U	16 U	26 U	16 U	.010 U	.008 U
Xylene	1.20		55 U	16 U	26 U	16 U	.010 U	.008 U
Semivolatiles								
Acenaphthene	50.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U

Table 1-3
AF-51 Analytical Data
Area 1 - Characterization

CHARACTERIZATION SAMPLES								
Sample No.			**AFB5100SD12012**	**ABF5100SD22012**	**AFB5100SD32012**	**AFB5100SD42012**	**AFB5100SD52012**	**AFB5100SD62012**
Laboratory Sample ID #			**71742001**	**71742002**	**71742003**	**71742004**	**71742005**	**71742006**
Sample Date		**Eastern USA Background**	**10/26/2000**	**10/26/2001**	**10/26/2001**	**10/26/2001**	**10/26/2001**	**10/26/2001**
Sample Type	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**		**Bottom (Cell 1)**	**Bottom (Cell 2)**	**Bottom (Cell 3)**	**Bottom (Cell 4)**	**Bottom (Cell 5)**	**Bottom (Cell 6)**
Depth (ft.)			**0- 1 ft. (BOG)**	**0- 1 ft. (BOG)**	**0-1 ft. (BOG)**	**0-1 ft. (BOG)**	**0-1 ft. (BOG)**	**0-1 ft. (BOG)**
Matrix			**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**
Acenaphthylene	41.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Aniline	0.10		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Anthracene	50.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Benzo(a)anthracene	.224 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Benzo (a) pyrene	.061 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Benzo (b) flouranthene	1.10		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Benzo (g,h,I) perylene	50.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Benzo (k) flouranthene	1.10		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Bis (2-ethylhexyl) phthalate	50.00		.630 J	.660 J	.420 J	.490 J	.150 J	.150 J
Butylbenzylphthlate	50.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Chrysene	0.40		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
4-Chloroaniline	.22 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
4-Chloro-3-methylphenol	.24 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
2-Chlorophenol	0.80		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Dibenzofuran	6.20		0.061 J	1.1 U	.680 U	1.1 U	.640 U	.610 U
Dibenzo (a,h) anthracene	.014 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
3,3-Dichlorobenzidine	N/A		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
2,4 Dichlorophenol	0.40		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
2,4-Dinitrophenol	.2 or MDL		1.5 U	2.2 U	1.4 U	2.3 U	1.3 U	1.2 U
2,6-Dinitrotoluene	1.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Diethylphthalate	7.10		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Dimethylphthlate	2.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Di-n-butyl phthalate	8.10		0.092 J	1.1 U	.680 U	1.1 U	.640 U	.610 U
Di-n-octyl phthlate	50.00		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Fluroanthene	50.00		.097 J	.130 J	.680 U	1.1 U	.640 U	.610 U
Fluorene	50.00		.090 J	1.1 U	.680 U	1.1 U	.640 U	.610 U
Hexachlorobenzene	0.41		.250 J	.190 J	.150 J	.190 J	.640 U	.610 U
Indeno (1,2,3-cd) Pyrene	3.20		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Isophorone	4.40		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
2-Methylnaphthalene	36.40		0.87	.930 J	.640 J	.770 J	.640 U	.610 U
2-Methylphenol	.1 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
4-Methylphenol	0.90		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Napthalene	13.00		.160 J	.190 J	.110 J	.140 J	.640 U	.610 U
Nitrobenzene	.2 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U

Table 1-3
AF-51 Analytical Data
Area 1 - Characterization

CHARACTERIZATION SAMPLES								
Sample No.			**AFB5100SD12012**	**ABF5100SD22012**	**AFB5100SD32012**	**AFB5100SD42012**	**AFB5100SD52012**	**AFB5100SD62012**
Laboratory Sample ID #			**71742001**	**71742002**	**71742003**	**71742004**	**71742005**	**71742006**
Sample Date		**Eastern USA Background**	**10/26/2000**	**10/26/2001**	**10/26/2001**	**10/26/2001**	**10/26/2001**	**10/26/2001**
Sample Type	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**		**Bottom (Cell 1)**	**Bottom (Cell 2)**	**Bottom (Cell 3)**	**Bottom (Cell 4)**	**Bottom (Cell 5)**	**Bottom (Cell 6)**
Depth (ft.)			**0- 1 ft. (BOG)**	**0- 1 ft. (BOG)**	**0-1 ft. (BOG)**	**0-1 ft. (BOG)**	**0-1 ft. (BOG)**	**0-1 ft. (BOG)**
Matrix			**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**	**Sediment (mg/kg)**
2-Nitroaniline	.43 or MDL		1.5 U	1.1 U	1.4 U	2.3 U	1.3 U	1.2 U
2-Nitrophenol	.33 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
4-Nitrophenol	.1 or MDL		1.5 U	2.2 U	1.4 U	2.3 U	1.3 U	1.2 U
3-Nitroaniline	.5 or MDL		1.5 U	2.2 U	1.4 U	2.3 U	1.3 U	1.2 U
Pentachlorophenol	1 or MDL		1.5 U	2.2 U	1.4 U	2.3 U	1.3 U	1.2 U
Phenanthrene	50.00		.110 J	.120 J	.680 U	1.1 U	.640 U	.610 U
Phenol	.03 or MDL		.740 U	1.1 U	.680 U	1.1 U	.640 U	.610 U
Pyrene	50.00		.087 U	.120 J	.680 U	1.1 U	.640 U	.610 U
2,4,5-Trichlorophenol	0.10		1.5	2.2 U	1.4 U	2.3 U	1.3 U	1.2 U
PCBs (mg/kg)								
Aroclor-1016	1		.076 U	.110 U	.068 U	.110 U	.066 U	.060 U
Aroclor-1221	1		.076 U	.110 U	.068 U	.110 U	.066 U	.060 U
Aroclor-1232	1		.076 U	.110 U	.068 U	.110 U	.066 U	.060 U
Aroclor-1242	1		.076 U	.110 U	.068 U	.110 U	.066 U	.060 U
Aroclor-1248	1		.076 U	.110 U	.068 U	.110 U	.066 U	.060 U
Aroclor-1254	1		0.340	0.410	0.170	0.230	0.120	0.093
Aroclor-1260	1		.076 U	.110 U	.068 U	.110 U	.066 U	.060 U
Metals (mg/kg)								
Cyanide	N/A	N/A	7	4	4	3	6	4

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

LAGOON-POST EXCAVATION CONFIRMATION SAMPLES- 1ST ROUND														
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**SB1102** **72002001** **12/08/2000** **Bottom (Cell 1)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB1202** **72002002** **12/08/2000** **Sidewall (Cell 1)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB2102** **72002003** **12/08/2000** **Bottom (Cell2)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB2202** **72002004** **12/08/2000** **Sidewall (Cell 2)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB3102** **72020003** **12/08/2000** **Bottom (Cell 3)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB3202** **72020004** **12/08/2000** **Sidewall (Cell 3)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB4102** **72002005** **12/08/2000** **Bottom (Cell 4)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB4202** **72002006** **12/08/2000** **Sidewall (Cell 4)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB5102** **72020001** **12/08/2000** **Bottom (Cell 5)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB5202** **7202002** **12/08/2000** **Sidewall (Cell 5)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB6102** **72002007** **12/08/2000** **Bottom (Cell 6)** **2.0 ft. (BOG)** **Soil (mg/kg)**	**SB6202** **72002008** **12/08/2000** **Sidewall (Cell 6)** **1.0 ft. (BOG)** **Soil (mg/kg)**
Volatiles														
Acetone	0.20		0.075	.006 U	.760 U	.005 J	0.094	.006 J	32 U	**0.007**	**0.007**	**0.006**	.005 J	.007 U
Benzene	0.06		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Benzoic Acid	2.70		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
2-Butanone	0.30		.060 U	.006 U	.760 U	.006 U	0.013	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Carbon Disulfide	2.70		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	0.015
Carbon Tetrachloride	0.60		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Chlorobenzene	1.70		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Chloroethane	1.90		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Chloroform	0.30		.060 U	.006 U	.760 U	.006 U	.005 J	.006 J	32 U	.006 U	.005 J	.005 U	.007 U	.005 J
Dibromochloromethane	N/A		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	**.006 U**	.007 U	.007 U
1,2-Dichlorobenzene	7.90		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,3-Dichlorobenzene	1.60		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,4-Dichlorobenzene	8.50		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,1-Dichloroethane	0.20		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,2-Dichloroethane	0.10		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,1-Dichloroethene	0.40		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,2-Dichloroethene	0.30		0.087	.006 U	2	.006 U	.006 U	.007 U	7.5 J	.006 U	.006 U	.006 U	0.009	.007 U
1-3 Dichloropropane	0.30		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Ethylbenzene	5.50		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
113 Freon (1,1,2 Trichloro-1,2,2)	6.00		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Methylene Chloride	0.10		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
4-Methyl-2-Pentanone	1.00		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Tetrachloroethene	1.40		0.850	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.003 J	.006 U	.003 U	.007 U	.007 U
1,1,1-Trichloroethane	0.80		.060 U	.006 U	.760 U	.006 U	.006 U	0.009	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,1,2,2-Tetrachloroethane	0.60		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,2,3-Trichloropropane	0.40		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
1,2,4-Trichlorobenzene	3.40		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Toluene	1.50		.060 U	.001 J	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.001 J
Trichloroethene	0.70		.060 U	.005 J	18	.003 J	.002 J	.007 U	530 U	.006 U	.005 J	.006 U	.004 J	.003 J
Vinyl Chloride	0.20		.060 U	.006 U	.760 U	.006 U	.002 J	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U
Xylene	1.20		.060 U	.006 U	.760 U	.006 U	.006 U	.007 U	32 U	.006 U	.006 U	.006 U	.007 U	.007 U

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

LAGOON-POST EXCAVATION CONFIRMATION SAMPLES- 1ST ROUND															
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**SB1102** **72002001** **12/08/2000** **Bottom (Cell 1)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB1202** **72002002** **12/08/2000** **Sidewall (Cell 1)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB2102** **72002003** **12/08/2000** **Bottom (Cell2)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB2202** **72002004** **12/08/2000** **Sidewall (Cell 2)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB3102** **72020003** **12/08/2000** **Bottom (Cell 3)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB3202** **72020004** **12/08/2000** **Sidewall (Cell 3)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB4102** **72002005** **12/08/2000** **Bottom (Cell 4)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB4202** **72002006** **12/08/2000** **Sidewall (Cell 4)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB5102** **72020001** **12/08/2000** **Bottom (Cell 5)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB5202** **7202002** **12/08/2000** **Sidewall (Cell 5)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB6102** **72002007** **12/08/2000** **Bottom (Cell 6)** **2.0 ft. (BOG)** **Soil (mg/kg)**	**SB6202** **72002008** **12/08/2000** **Sidewall (Cell 6)** **1.0 ft. (BOG)** **Soil (mg/kg)**
Semivolatiles															
Acenaphthene	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Acenaphthylene	41.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.15 J	.42 U
Aniline	0.10		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Anthracene	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.26 J	.42 U
Benzo(a)anthracene	.224 or MDL		.390 U	.058 J	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	**0.5/.42UD**	.42 U
Benzo (a) pyrene	.061 or MDL		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.46 J	.42 U
Benzo (b) flouranthene	1.10		.390 U	.062 J	.410 U	.37 U	.370 U	.42 U	.41 U	.042 J	.38 U	.41 U	0.56	.42 U
Benzo (g,h,I) perylene	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.27 J	.42 U
Benzo (k) flouranthene	1.10		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.2 J	.42 U
Bis (2-ethylhexyl) phthalate	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.084 J	.38 U	.41 U	.47 U	.11 J
Butylbenzylphthlate	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Chrysene	0.40		.390 U	.056 J	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	**0.51/.42UD**	.42 U
4-Chloroaniline	.22 or MDL		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
4-Chloro-3-methylphenol	.24 or MDL		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
2-Chlorophenol	0.80		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Dibenzofuran	6.20		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.07 J	.42 U
Dibenzo (a,h) anthracene	.014 or MDL		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
3,3-Dichlorobenzidine	N/A		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.84 U
2,4 Dichlorophenol	0.40		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
2,4-Dinitrophenol	.2 or MDL		.790 U	.82 U	.410 U	.74 U	.760 U	.84 U	.84 U	.83 U	.77 U	.83 U	.96 U	.86 U
2,6-Dinitrotoluene	1.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.96 U	.42 U
Diethylphthalate	7.10		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Dimethylphthlate	2.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Di-n-butyl phthalate	8.10		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Di-n-octyl phthlate	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Fluroanthene	50.00		.390 U	.088 J	.410 U	.37 U	.370 U	.42 U	.41 U	.085 J	.38 U	.41 U	1.20	.42 U
Fluorene	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.1 J	.42 U
Hexachlorobenzene	0.41		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Indeno (1,2,3-cd) Pyrene	3.20		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.27 J	.42 U
Isophorone	4.40		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
2-Methylnaphthalene	36.40		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.057 J	.41 U	.38 U	.41 U	.47 U	.42 U
2-Methylphenol	.1 or MDL		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
4-Methylphenol	0.90		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Napthalene	13.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.1 J	.42 U
Nitrobenzene	.2 or MDL		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
2-Nitroaniline	.43 or MDL		.790 U	.82 U	.830 U	.74 U	.760 U	.84 U	.84 U	.83 U	.77 U	.83 U	.96 U	.86 U
2-Nitrophenol	.33 or MDL		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
4-Nitrophenol	.1 or MDL		.790 U	.82 U	.830 U	.74 U	.760 U	.84 U	.84 U	.83 U	.77 U	.83 U	.96 U	.86 U
3-Nitroaniline	.5 or MDL		.790 U	.82 U	.830 U	.74 U	.760 U	.84 U	.84 U	.83 U	.77 U	.83 U	.47 U	.86 U
Pentachlorophenol	1 or MDL		.790 U	.82 U	.830 U	.74 U	.760 U	.84 U	.84 U	.83 U	.77 U	.83 U	.96 U	.86 U
Phenanthrene	50.00		.390 U	.4 U	.410 U	.37 U	.370 U	.42 U	.41 U	.41 U	.38 U	.41 U	1.00	.42 U
Phenol	.03 or MDL		.390 U	.4 U	.410 U	.37 U	.072 J	.42 U	.41 U	.41 U	.38 U	.41 U	.47 U	.42 U
Pyrene	50.00		.390 U	.099 J	.410 U	.37 U	.370 U	.42 U	.41 U	.081 J	.38 U	.41 U	1.10	.42 U
2,4,5-Trichlorophenol	0.10		.790 U	.82 U	.830 U	.74 U	.760 U	.84 U	.84 U	.83 U	.77 U	.83 U	.96 U	.86 U
PCBs (mg/kg)															
Aroclor-1016	1		.041 U	.041 U	.041 U	.038 U	.038 U	.042 U	.041 U	.042 U	.039 U	.041 U	.057 U	.042 U
Aroclor-1221	1		.041 U	.041 U	.041 U	.038 U	.038 U	.042 U	.041 U	.042 U	.039 U	.041 U	.057 U	.042 U
Aroclor-1232	1		.041 U	.041 U	.041 U	.038 U	.038 U	.042 U	.041 U	.042 U	.039 U	.041 U	.057 U	.042 U
Aroclor-1242	1		.041 U	.041 U	.041 U	.038 U	.038 U	.042 U	.041 U	.042 U	.039 U	.041 U	.057 U	.042 U
Aroclor-1248	1		.041 U	.041 U	.041 U	.038 U	.038 U	.042 U	.041 U	.042 U	.039 U	.041 U	.057 U	.042 U
Aroclor-1254	1		.041 U	.041 U	.041 U	.038 U	.038 U	.042 U	.041 U	.042 U	.039 U	.041 U	.057 U	.042 U
Aroclor-1260	1		.041 U	.041 U	.041 U	.038 U	.038 U	.042 U	.041 U	.042 U	.039 U	.041 U	0.10	.042 U

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

			LAGOON-POST EXCAVATION CONFIRMATION SAMPLES- 1ST ROUND											
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**SB1102** **72002001** **12/08/2000** **Bottom (Cell 1)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB1202** **72002002** **12/08/2000** **Sidewall (Cell 1)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB2102** **72002003** **12/08/2000** **Bottom (Cell2)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB2202** **72002004** **12/08/2000** **Sidewall (Cell 2)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB3102** **72020003** **12/08/2000** **Bottom (Cell 3)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB3202** **72020004** **12/08/2000** **Sidewall (Cell 3)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB4102** **72002005** **12/08/2000** **Bottom (Cell 4)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB4202** **72002006** **12/08/2000** **Sidewall (Cell 4)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB5102** **72020001** **12/08/2000** **Bottom (Cell 5)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB5202** **7202002** **12/08/2000** **Sidewall (Cell 5)** **1.0 ft. (BOG)** **Soil (mg/kg)**	**SB6102** **72002007** **12/08/2000** **Bottom (Cell 6)** **2.0 ft. (BOG)** **Soil (mg/kg)**	**SB6202** **72002008** **12/08/2000** **Sidewall (Cell 6)** **1.0 ft. (BOG)** **Soil (mg/kg)**
Pesticide (mg/kg)														
Aldrin	0.041		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Alpha-BHC	0.11		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Beta-BHC	0.2		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Delta-BHC	0.3		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Chlordane	0.54		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
2,4-D	0.5		0.0039 U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4,4-DDD	2.9		0.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
4,4-DDE	2.1		0.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
4,4-DDT	2.1		.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
Dibenzo-P-dioxin	N/A		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dieldrin	0.044		.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
Endosulfan I	0.9		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Endosulfan II	0.9		.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
Endosulfan Sulfate	1		.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
Endrin	0.1		.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
Endrin Keytone	N/A		.0039 U	.004 U	.0041 U	.0037 U	.0037 U	.0042 U	.0041 U	.0041 U	.0038 U	.0041 U	.0047 U	.0042 U
Gamma-BHC	0.06		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Gamma-chlordane	0.54		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Heptachlor	0.1		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Heptachlor epoxide	0.02		.002 U	.0021 U	.0021 U	.0019 U	.0019 U	.0022 U	.0021 U	.0021 U	.002 U	.0021 U	.0024 U	.0022 U
Methoxychlor	N/A		.020 U	.021 U	.021 U	.019 U	.019 U	.022 U	.021 U	.021 U	.020 U	.021 U	.024 U	.022 U
Mitotane	N/A		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Parathion	1.2		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Polychorinated dibenzo-furans	N/A		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Metals (mg/kg)														
Aluminum	SB	33000	4130	5040.00	3120.00	5390.00	4900.00	8740.00	9880	8460.00	5240.00	8220.00	8490.00	14700.00
Antimony	SB	N/A	0.28	0.36	0.34	0.33	0.28	0.30	0.34	0.28	0.34	0.22	0.32	0.38
Arsenic	7.5 or SB	3.0-12	1.5	2.30	2.20	2.80	2.00	4.30	3.3	2.60	3.10	2.90	7.00	4.80
Barium	300 or SB	15-600	33.4	47.40	32.30	56.90	35.00	73.70	73	70.10	41.50	63.80	111.00	109.00
Beryllium	.16 or SB	0.1-75	0.21	0.24	0.22	0.25	0.24	0.42	0.43	0.36	0.28	0.38	0.31	0.64
Cadmium	1 or SB	0.1-1	**2.3**	**8.9***	**1.50**	**6.2***	**4.70**	**7.6***	3.2	**13.9***	**5.50**	**4.7***	**16.3/3.7D**	**4.2***
Calcium	SB	130-35000	36500	**48000***	**40700.00**	**37100***	**39900.00**	**50000***	61200	31200.00	**55000.00**	**76700***	10,300	4,370
Chromium	10 or SB	1.5-40	**8.3**	12.40	6.70	15.10	11.40	18.80	15.3	24.70	13.20	12.60	**241/11.4D**	23.20
Cobalt	30 or SB	2.5-60	4.3	5.20	3.30	5.00	5.60	8.90	8.3	6.60	6.10	7.20	8.40	11.40
Copper	25 or SB	1000-50000	9.3	12.60	8.30	11.40	9.90	20.80	16.6	13.70	9.90	17.60	91.80	24.20
Iron	2000 or SB	2000-550000	10600	12200.00	877.00	12800.00	11900.00	17700.00	18500	15300.00	13300.00	17700.00	35500.00	25700.00
Lead	SB	200-500	0.22	0.27	0.26	0.25	0.22	0.23	0.26	0.22	0.26	0.17	0.38	0.29
Magnesium	SB	100-5000	**8080**	**8590***	**12400.00**	**8540***	**8940.00**	**10700***	11900	**8690***	6050.00	**10200***	4630	**5140***
Manganese	SB	50-5000	333	458.00	285.00	385.00	391.00	516.00	469	436.00	424.00	466.00	634.00	820.00
Mercury	0.1	0.001-0.2	0.018	0.02	0.02	0.02	0.018	0.02	0.02	0.02	0.02	0.02	0.05	0.02
Nickel	13 or SB	0.5-25	10	13.30	7.30	12.60	15.80	**29.2***	21	16.40	18.00	20.90	**226/10.8D**	30.70
Potassium	SB	8500-11000	746	765.00	658.00	779.00	689.00	953.00	1620	1030.00	591.00	958.00	821.00	1430.00
Selenium	2.0 or SB	0.1-3.9	**0.38**	0.48	0.45	0.44	3.6	**5.4***	0.48	0.38	**3.90**	**5***	0.66	0.76
Silver	SB	N/A	0.23	0.37	0.26	0.24	0.19	0.20	0.37	0.19	0.22	0.15	0.37	0.25
Sodium	SB	6000-8000	130	140.00	139.00	141.00	188.00	237.00	191	213.00	202.00	244.00	279.00	142.00
Thallium	SB	N/A	1.5	1.60	1.50	1.80	0.35	0.30	2.5	2.20	1.70	0.22	4.50	3.30
Vanadium	150 or SB	1-300	17.1	18.10	19.00	18.50	18.80	24.20	25.7	22.40	16.70	23.60	58.80	25.70
Zinc	20 or SB	9.0-50	**24.9**	35.7	**18.3**	36.60	36.60	**59.8***	**50.5**	**116***	**43.10**	44.40	**234/27.7D**	**71.1***
Cyanide	N/A	N/A	0.22	0.21	0.20	0.34	0.18	0.31	0.23	0.22	0.40	0.20	1.30	0.18

* Concentration applicable to sample however additional material removed from location during subsequent excavations, other parameters below TAGM or SB not flagged

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

18 " PIPE TRENCH & OVERFLOW SWALE POST EXC. CONFIRMATION SAMPLES							
Sample No. Laboratory Sample ID # Sample Date Sample Type Depth (ft.) Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	SB18102 72002011 12/08/2000 Trench (10 ft. L) 36-38 in.(BOG) Soil (mg/kg)	SB18202 72002012 12/08/2000 Trench (10 ft. B) 36-38 in.(BOG) Soil (mg/kg)	SB7102 72020005 12/08/2000 Swale(0 ft. DS) 8-12 in.(BOG) Soil (mg/kg)	SB7202 72020006 12/08/2000 Swale(50 ft. DS) 8-12 in.(BOG) Soil (mg/kg)	SB7302 72020007 12/08/2000 Swale(100 ft. DS) 8-12 in.(BOG) Soil (mg/kg)
Volatiles							
Acetone	0.20		.006 U	.006 U	.005 J	.005 J	.004 J
Benzene	0.06		.006 U	.006 U	.006 U	.003 J	.006 U
Benzoic Acid	2.70		.006 U	.006 U	.006 U	.006 U	.006 U
2-Butanone	0.30		.006 U	.006 U	.006 U	.006 U	.006 U
Carbon Disulfide	2.70		0.013	0.007	.006 U	.006 U	.006 U
Carbon Tetrachloride	0.60		.006 U	.006 U	.006 U	.006 U	.006 U
Chlorobenzene	1.70		.006 U	.006 U	.006 U	.006 U	.006 U
Chloroethane	1.90		.006 U	.006 U	.006 U	.006 U	.006 U
Chloroform	0.30		.006 U	.006 U	.005 J	.006 J	.004 J
Dibromochloromethane	N/A		.006 U	.006 U	.006 U	.006 U	.006 U
1,2-Dichlorobenzene	7.90		.006 U	.006 U	.006 U	.006 U	.006 U
1,3-Dichlorobenzene	1.60		.006 U	.006 U	.006 U	.006 U	.006 U
1,4-Dichlorobenzene	8.50		.006 U	.006 U	.006 U	.006 U	.006 U
1,1-Dichloroethane	0.20		.006 U	.006 U	.006 U	.006 U	.006 U
1,2-Dichloroethane	0.10		.006 U	.006 U	.006 U	.006 U	.006 U
1,1-Dichloroethene	0.40		.006 U	.006 U	.006 U	.006 U	.006 U
1,2-Dichloroethene	0.30		.006 U	0.043	.006 U	.006 U	.006 U
1-3 Dichloropropane	0.30		.006 U	.006 U	.006 U	.006 U	.006 U
Ethylbenzene	5.50		.006 U	.006 U	.006 U	.006 U	.006 U
113 Freon (1,1,2 Trichloro-1,2,2)	6.00		.006 U	.006 U	.006 U	.006 U	.006 U
Methylene Chloride	0.10		.006 U	.006 U	.006 U	.006 U	.006 U
4-Methyl-2-Pentanone	1.00		.006 U	.006 U	.006 U	.006 U	.006 U
Tetrachloroethene	1.40		.004 J	.006 U	.002 J	.003 J	.002 J
1,1,1-Trichloroethane	0.80		.006 U	.006 U	.006 U	.006 U	.006 U
1,1,2,2-Tetrachloroethane	0.60		.006 U	.006 U	.006 U	.006 U	.006 U
1,2,3-Trichloropropane	0.40		.006 U	.006 U	.006 U	.006 U	.006 U
1,2,4-Trichlorobenzene	3.40		.006 U	.006 U	.006 U	.006 U	.006 U
Toluene	1.50		.006 U	.001 J	.006 U	.001 J	.006 U
Trichloroethene	0.70		.006 U	0.037	.006 U	.006 U	.006 U
Vinyl Chloride	0.20		.006 U	.006 U	.006 U	.006 U	.006 U
Xylene	1.20		.006 U	.006 U	.006 U	.006 U	.006 U
Semivolatiles							
Acenaphthene	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Acenaphthylene	41.00		.37 U	.39 U	.4 U	.43 U	.38 U
Aniline	0.10		.37 U	.39 U	.4 U	.43 U	.38 U
Anthracene	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Benzo(a)anthracene	.224 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
Benzo (a) pyrene	.061 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
Benzo (b) flouranthene	1.10		.37 U	.39 U	.4 U	.43 U	.38 U
Benzo (g,h,l) perylene	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Benzo (k) flouranthene	1.10		.37 U	.39 U	.4 U	.43 U	.38 U
Bis (2-ethylhexyl) phthalate	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Butylbenzylphthlate	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Chrysene	0.40		.37 U	.39 U	.4 U	.43 U	.38 U
4-Chloroaniline	.22 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
4-Chloro-3-methylphenol	.24 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
2-Chlorophenol	0.80		.37 U	.39 U	.4 U	.43 U	.38 U
Dibenzofuran	6.20		.37 U	.39 U	.4 U	.43 U	.38 U
Dibenzo (a,h) anthracene	.014 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
3,3-Dichlorobenzidine	N/A		.37 U	.39 U	.4 U	.43 U	.38 U
2,4 Dichlorophenol	0.40		.37 U	.39 U	.4 U	.43 U	.38 U

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

18 " PIPE TRENCH & OVERFLOW SWALE POST EXC. CONFIRMATION SAMPLES							
Sample No. Laboratory Sample ID # Sample Date Sample Type Depth (ft.) Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	SB18102 72002011 12/08/2000 Trench (10 ft. L) 36-38 in.(BOG) Soil (mg/kg)	SB18202 72002012 12/08/2000 Trench (10 ft. B) 36-38 in.(BOG) Soil (mg/kg)	SB7102 72020005 12/08/2000 Swale(0 ft. DS) 8-12 in.(BOG) Soil (mg/kg)	SB7202 72020006 12/08/2000 Swale(50 ft. DS) 8-12 in.(BOG) Soil (mg/kg)	SB7302 72020007 12/08/2000 Swale(100 ft. DS) 8-12 in.(BOG) Soil (mg/kg)
2,4-Dinitrophenol	.2 or MDL		.76 U	.79 U	.8 U	.87 U	.76 U
2,6-Dinitrotoluene	1.00		.37 U	.39 U	.4 U	.43 U	.38 U
Diethylphthalate	7.10		.37 U	.39 U	.4 U	.43 U	.38 U
Dimethylphthlate	2.00		.37 U	.39 U	.4 U	.43 U	.38 U
Di-n-butyl phthalate	8.10		.37 U	.39 U	.4 U	.43 U	.38 U
Di-n-octyl phthlate	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Fluroanthene	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Fluorene	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Hexachlorobenzene	0.41		.37 U	.39 U	.4 U	.43 U	.38 U
Indeno (1,2,3-cd) Pyrene	3.20		.37 U	.39 U	.4 U	.43 U	.38 U
Isophorone	4.40		.37 U	.39 U	.4 U	.43 U	.38 U
2-Methylnaphthalene	36.40		.37 U	.39 U	.4 U	.43 U	.38 U
2-Methylphenol	.1 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
4-Methylphenol	0.90		.37 U	.39 U	.4 U	.43 U	.38 U
Napthalene	13.00		.37 U	.39 U	.4 U	.43 U	.38 U
Nitrobenzene	.2 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
2-Nitroaniline	.43 or MDL		.76 U	.79 U	.8 U	.87 U	.76 U
2-Nitrophenol	.33 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
4-Nitrophenol	.1 or MDL		.76 U	.79 U	.8 U	.87 U	.76 U
3-Nitroaniline	.5 or MDL		.76 U	.79 U	.8 U	.87 U	.76 U
Pentachlorophenol	1 or MDL		.76 U	.79 U	.8 U	.87 U	.76 U
Phenanthrene	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
Phenol	.03 or MDL		.37 U	.39 U	.4 U	.43 U	.38 U
Pyrene	50.00		.37 U	.39 U	.4 U	.43 U	.38 U
2,4,5-Trichlorophenol	0.10		.76 U	.79 U	.8 U	.87 U	.76 U
PCBs (mg/kg)							
Aroclor-1016	1		.038 U	.039 U	.04 U	.043 U	.038 U
Aroclor-1221	1		.038 U	.039 U	.04 U	.043 U	.038 U
Aroclor-1232	1		.038 U	.039 U	.04 U	.043 U	.038 U
Aroclor-1242	1		.038 U	.039 U	.04 U	.043 U	.038 U
Aroclor-1248	1		.038 U	.039 U	.04 U	.043 U	.038 U
Aroclor-1254	1		.038 U	.039 U	.04 U	.043 U	.038 U
Aroclor-1260	1		.038 U	.039 U	.04 U	.043 U	.038 U
Pesticide (mg/kg)							
Aldrin	0.041		.001 U	.002 U	.002 U	.002 U	.001 U
Alpha-BHC	0.11		.001 U	.002 U	.002 U	.002 U	.001 U
Beta-BHC	0.2		.001 U	.002 U	.002 U	.002 U	.001 U
Delta-BHC	0.3		.001 U	.002 U	.002 U	.002 U	.001 U
Chlordane	0.54		.001 U	.002 U	.002 U	.002 U	.001 U
2,4-D	0.5		NR	NR	NR	NR	NR
4,4-DDD	2.9		.003 U	.004 U	.004 U	.004 U	.003 U
4,4-DDE	2.1		.003 U	.004 U	.004 U	.004 U	.003 U
4,4-DDT	2.1		.003 U	.004 U	.004 U	.004 U	.003 U
Dibenzo-P-dioxin	N/A		NR	NR	NR	NR	NR
Dieldrin	0.044		.003 U	.004 U	.004 U	.004 U	.003 U
Endosulfan I	0.9		.001 U	.002 U	.002 U	.002 U	.001 U
Endosulfan II	0.9		.003 U	.004 U	.004 U	.004 U	.003 U
Endosulfan Sulfate	1		.003 U	.004 U	.004 U	.004 U	.003 U
Endrin	0.1		.003 U	.004 U	.004 U	.004 U	.003 U
Endrin Keytone	N/A		.003 U	.004 U	.004 U	.004 U	.003 U
Gamma-BHC	0.06		.001 U	.002 U	.002 U	.002 U	.001 U
Gamma-chlordane	0.54		.001 U	.002 U	.002 U	.002 U	.001 U
Heptachlor	0.1		.001 U	.002 U	.002 U	.002 U	.001 U
Heptachlor epoxide	0.02		.001 U	.002 U	.002 U	.002 U	.001 U
Methoxychlor	N/A		.019 U	.02 U	.02 U	.022 U	.019 U
Mitotane	N/A		NR	NR	NR	NR	NR
Parathion	1.2		NR	NR	NR	NR	NR
Polychorinated dibenzo-furans	N/A		NR	NR	NR	NR	NR

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

18 " PIPE TRENCH & OVERFLOW SWALE POST EXC. CONFIRMATION SAMPLES							
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**SB18102** **72002011** **12/08/2000** **Trench (10 ft. L)** **36-38 in.(BOG)** **Soil (mg/kg)**	**SB18202** **72002012** **12/08/2000** **Trench (10 ft. B)** **36-38 in.(BOG)** **Soil (mg/kg)**	**SB7102** **72020005** **12/08/2000** **Swale(0 ft. DS)** **8-12 in.(BOG)** **Soil (mg/kg)**	**SB7202** **72020006** **12/08/2000** **Swale(50 ft. DS)** **8-12 in.(BOG)** **Soil (mg/kg)**	**SB7302** **72020007** **12/08/2000** **Swale(100 ft. DS)** **8-12 in.(BOG)** **Soil (mg/kg)**
Metals (mg/kg)							
Aluminum	SB	33000	5940.00	7260.00	11600.00	11000.00	7820.00
Antimony	SB	N/A	0.34	0.32	0.30	0.30	0.34
Arsenic	7.5 or SB	3.0-12	2.60	2.90	5.00	5.70	2.70
Barium	300 or SB	15-600	55.60	53.00	105.00	64.40	40.30
Beryllium	.16 or SB	0.1-75	0.27	0.34	0.56	0.49	0.35
Cadmium	1 or SB	0.1-1	**2.50**	**3.10**	**6.30**	**8.70**	**4.70**
Calcium	SB	130-35000	**42600.00**	**44400.00**	4530.00	**37900.00**	1660.00
Chromium	10 or SB	1.5-40	10.80	22.00	22.20	17.00	12.40
Cobalt	30 or SB	2.5-60	5.50	7.10	11.70	10.50	7.60
Copper	25 or SB	1000-50000	12.80	15.60	21.00	22.30	11.20
Iron	2000 or SB	2000-550000	14200.00	15800.00	22900.00	21900.00	14700.00
Lead	SB	200-500	0.26	0.24	0.98	0.23	0.79
Magnesium	SB	100-5000	**12400.00**	**10600.00**	4550.00	**9920.00**	2,640.00
Manganese	SB	50-5000	374.00	448.00	381.00	549.00	171.00
Mercury	0.1	0.001-0.2	0.09	0.02	0.02	0.02	0.02
Nickel	13 or SB	0.5-25	13.90	19.80	**33.50**	**32.80**	20.30
Potassium	SB	8500-11000	907.00	1150.00	851.00	1010.00	526.00
Selenium	2.0 or SB	0.1-3.9	0.46	0.43	**7.10**	**6.90**	**4.50**
Silver	SB	N/A	0.37	0.22	0.20	0.20	0.23
Sodium	SB	6000-8000	141.00	170.00	158.00	220.00	143.00
Thallium	SB	N/A	2.10	2.10	0.30	0.42	0.34
Vanadium	150 or SB	1-300	21.50	21.50	24.00	25.10	16.70
Zinc	20 or SB	9.0-50	41.90	40.90	**70.00**	**69.20**	45.30
Cyanide	N/A	N/A	0.16	0.17	0.51	5.30	1.80

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

			LAGOON-POST EXCAVATION CONFIRMATION SAMPLES - 2ND ROUND					LAGOON-POST EXCAVATION CONFIRMATION SAMPLES				
Sample No.			**SB1502**	**SB2502**	**SB3502**	**SB4502**	**SB5502**	**NS102**	**SS102**	**ES102**	**WS102**	**D102 (DUPWS102)**
Laboratory Sample ID #			**80300001**	**80300002**	**80300003**	**80300004**	**80300005**	**80300006**	**80300007**	**80300008**	**80300009**	**803000011**
Sample Date			**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**
Sample Type			**Bottom (Cell 1)**	**Bottom (Cell 2)**	**Bottom (Cell 3)**	**Bottom (Cell 4)**	**Bottom (Cell 5)**	**North Sidewall**	**South Sidewall**	**East Sidewall**	**West Sidewall**	**Sidewall**
Depth (ft.)	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**
Matrix			**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**
Volatiles												
Acetone	0.20		.62 J	.42	.024 J	120 U	.29 J	.005 J	.005 J	.007	.006 U	.006 J
Benzene	0.06		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Benzoic Acid	2.70		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
2-Butanone	0.30		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Carbon Disulfide	2.70		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Carbon Tetrachloride	0.60		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Chlorobenzene	1.70		1.1 U	.29 U	.02 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Chloroethane	1.90		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Chloroform	0.30		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Dibromochloromethane	N/A		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,2-Dichlorobenzene	7.90		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,3-Dichlorobenzene	1.60		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,4-Dichlorobenzene	8.50		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,1-Dichloroethane	0.20		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,2-Dichloroethane	0.10		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,1-Dichloroethene	0.40		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	0.20	.006 U	.006 U
1,2-Dichloroethene	0.30		1.1 U	.12 J	0.03	120 U	.29 U	.002 J	0.043	.005 U	.003 J	.006 U
1-3 Dichloropropane	0.30		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Ethylbenzene	5.50		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
113 Freon (1,1,2 Trichloro-1,2	6.00		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Methylene Chloride	0.10		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
4-Methyl-2-Pentanone	1.00		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Tetrachloroethene	1.40		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.001 J	.005 U	.006 U	.006 U
1,1,1-Trichloroethane	0.80		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,1,2,2-Tetrachloroethane	0.60		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,2,3-Trichloropropane	0.40		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
1,2,4-Trichlorobenzene	3.40		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Toluene	1.50		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.001 J	.006 U	.006 U
Trichloroethene	0.70		23	4.8	.76	1900	3.6	.09 J	.3D	.16	.005 J	0.009
Vinyl Chloride	0.20		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Xylene	1.20		1.1 U	.29 U	.03 U	120 U	.29 U	.006 U	.006 U	.005 U	.006 U	.006 U
Semivolatiles												
Acenaphthene	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Acenaphthylene	41.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Aniline	0.10		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Anthracene	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Benzo(a)anthracene	.224 or MDL		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Benzo (a) pyrene	.061 or MDL		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Benzo (b) flouranthene	1.10		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Benzo (g,h,I) perylene	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Benzo (k) flouranthene	1.10		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Bis (2-ethylhexyl) phthalate	50.00		1.1 U	.35 J	1.1 U	.21 J	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Butylbenzylphthlate	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Chrysene	0.40		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
4-Chloroaniline	.22 or MDL		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
4-Chloro-3-methylphenol	.24 or MDL		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
2-Chlorophenol	0.80		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Dibenzofuran	6.20		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

			LAGOON-POST EXCAVATION CONFIRMATION SAMPLES - 2ND ROUND					LAGOON-POST EXCAVATION CONFIRMATION SAMPLES				
Sample No.			**SB1502**	**SB2502**	**SB3502**	**SB4502**	**SB5502**	**NS102**	**SS102**	**ES102**	**WS102**	**D102 (DUPWS102)**
Laboratory Sample ID #			**80300001**	**80300002**	**80300003**	**80300004**	**80300005**	**80300006**	**80300007**	**80300008**	**80300009**	**80300011**
Sample Date			**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**
Sample Type			**Bottom (Cell 1)**	**Bottom (Cell 2)**	**Bottom (Cell 3)**	**Bottom (Cell 4)**	**Bottom (Cell 5)**	**North Sidewall**	**South Sidewall**	**East Sidewall**	**West Sidewall**	**Sidewall**
Depth (ft.)			**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**
Matrix	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**
Dibenzo (a,h) anthracene	.014 or MDL		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
3,3-Dichlorobenzidine	N/A		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
2,4 Dichlorophenol	0.40		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
2,4-Dinitrophenol	.2 or MDL		**2.3 U**	**2.4 U**	**2.3 U**	**2.4 U**	**2.3 U**	**2.5 U**	**2.4 U**	**2.0 U**	**2.4 U**	**2.6 U**
2,6-Dinitrotoluene	1.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Diethylphthalate	7.10		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	.14 J	1.0 U	1.2 U	1.3 U
Dimethylphthlate	2.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Di-n-butyl phthalate	8.10		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Di-n-octyl phthlate	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Fluroanthene	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Fluorene	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Hexachlorobenzene	0.41		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Indeno (1,2,3-cd) Pyrene	3.20		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Isophorone	4.40		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
2-Methylnaphthalene	36.40		1.1 U	1.2 U	1.1 U	.14 J	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
2-Methylphenol	.1 or MDL		**1.1 U**	**1.2 U**	**1.1 U**	1.2 U	**1.1 U**	1.2 U	1.2 U	**1.0 U**	**1.2 U**	**1.3 U**
4-Methylphenol	0.90		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Napthalene	13.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Nitrobenzene	.2 or MDL		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
2-Nitroaniline	.43 or MDL		2.3 U	2.4 U	2.3 U	2.4 U	2.3 U	2.5 U	2.4 U	2.0 U	2.4 U	2.6 U
2-Nitrophenol	.33 or MDL		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

	LAGOON-POST EXCAVATION CONFIRMATION SAMPLES - 2ND ROUND							LAGOON-POST EXCAVATION CONFIRMATION SAMPLES				
Sample No.			**SB1502**	**SB2502**	**SB3502**	**SB4502**	**SB5502**	**NS102**	**SS102**	**ES102**	**WS102**	**D102 (DUPWS102)**
Laboratory Sample ID #			**80300001**	**80300002**	**80300003**	**80300004**	**80300005**	**80300006**	**80300007**	**80300008**	**80300009**	**80300011**
Sample Date			**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**
Sample Type			**Bottom (Cell 1)**	**Bottom (Cell 2)**	**Bottom (Cell 3)**	**Bottom (Cell 4)**	**Bottom (Cell 5)**	**North Sidewall**	**South Sidewall**	**East Sidewall**	**West Sidewall**	**Sidewall**
Depth (ft.)	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**
Matrix			**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**
4-Nitrophenol	.1 or MDL		**2.3 U**	**2.4 U**	**2.3 U**	**2.4 U**	**2.3 U**	**2.5 U**	**2.4 U**	**2.0 U**	**2.4 U**	**2.6 U**
3-Nitroaniline	.5 or MDL		2.3 U	2.4 U	2.3 U	2.4 U	2.3 U	2.5 U	2.4 U	2.0 U	2.4 U	2.6 U
Pentachlorophenol	1 or MDL		2.3 U	2.4 U	2.3 U	2.4 U	2.3 U	2.5 U	2.4 U	2.0 U	2.4 U	2.6 U
Phenanthrene	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
Phenol	.03 or MDL		**1.1 U**	**1.2 U**	**1.1 U**	**1.2 U**	**1.1 U**	**1.2 U**	**1.2 U**	**1.0 U**	**1.2 U**	**1.3 U**
Pyrene	50.00		1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	1.2 U	1.3 U
2,4,5-Trichlorophenol	0.10		**2.3 U**	**2.4 U**	**2.3 U**	**2.4 U**	**2.3 U**	**2.5 U**	**2.4 U**	**2.0 U**	**2.4 U**	**2.6 U**
PCBs (mg/kg)												
Aroclor-1016	1		.110 U	.120 U	.110 U	.120 U	.100 U	.120 U	.120 U	.100 U	.120 U	.130 U
Aroclor-1221	1		.110 U	.120 U	.110 U	.120 U	.100 U	.120 U	.120 U	.100 U	.120 U	.130 U
Aroclor-1232	1		.110 U	.120 U	.110 U	.120 U	.100 U	.120 U	.120 U	.100 U	.120 U	.130 U
Aroclor-1242	1		.110 U	.120 U	.110 U	.120 U	.100 U	.120 U	.120 U	.100 U	.120 U	.130 U
Aroclor-1248	1		.110 U	.120 U	.110 U	.120 U	.100 U	.120 U	.120 U	.100 U	.120 U	.130 U
Aroclor-1254	1		.110 U	.120 U	.110 U	.120 U	.100 U	.120 U	.120 U	.100 U	.120 U	.130 U
Aroclor-1260	1		.110 U	.120 U	.110 U	.120 U	.100 U	.120 U	.120 U	.100 U	.120 U	.130 U
Pesticide (mg/kg)												
Aldrin	0.041		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Alpha-BHC	0.11		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Beta-BHC	0.2		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Delta-BHC	0.3		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Chlordane	0.54		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
2,4-D	0.5		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4,4-DDD	2.9		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
4,4-DDE	2.1		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
4,4-DDT	2.1		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Dibenzo-P-dioxin	N/A		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dieldrin	0.044		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Endosulfan I	0.9		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Endosulfan II	0.9		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Endosulfan Sulfate	1		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Endrin	0.1		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Endrin Keytone	N/A		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Gamma-BHC	0.06		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Gamma-chlordane	0.54		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Heptachlor	0.1		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Heptachlor epoxide	0.02		.0058 U	.0059 U	.0056 U	.0059 U	.0054 U	.0062 U	.0062 U	.0053 U	.0062 U	.0064 U
Methoxychlor	N/A		.011 U	.011 U	.011 U	.011 U	.010 U	.012 U	.012 U	.010 U	.012 U	.012 U
Mitotane	N/A		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Parathion	1.2		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Polychorinated dibenzo-furans	N/A		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Metals (mg/kg)												
Aluminum	SB	33000	4020.00	6700.00	4020.00	6710.00	3610.00	8190.00	4700.00	3780.00	7470.00	7000.00
Antimony	SB	N/A	.11 U	.11 U	.12 U	.11 B	.11 B	.12 U	.1 U	.12 B	.12 U	.11 U
Arsenic	7.5 or SB	3.0-12	2.30	2.70	**2.2 B**	3.40	1.60	4.20	2.60	1.9 B	4.40	3.60
Barium	300 or SB	15-600	44.30	58.20	42.70	47.40	42.80	73.20	62.80	33.70	91.40	79.80
Beryllium	.16 or SB	0.1-75	.19 B	.32 B	.19 B	.31 B	.17 B	.38 B	.22 B	.17 B	.37 B	.33 B
Cadmium	1 or SB	0.1-1	0.73	**0.84**	0.59	0.93	0.51	**1.30**	0.81	0.65	1.00	0.85
Calcium	SB	130-35000	**41300.00**	**43100.00**	**44700.00**	**54900.00**	**37700.00**	**76,300**	**38,400**	**39800.00**	**66800.00**	**43700.00**
Chromium	10 or SB	1.5-40	8.00	11.00	7.80	11.50	6.70	13.80	8.50	7.20	11.70	10.50

Table 1-4
AF-51 Analytical Data
Area 1 Post- Excavation

			LAGOON-POST EXCAVATION CONFIRMATION SAMPLES - 2ND ROUND					LAGOON-POST EXCAVATION CONFIRMATION SAMPLES				
Sample No.			**SB1502**	**SB2502**	**SB3502**	**SB4502**	**SB5502**	**NS102**	**SS102**	**ES102**	**WS102**	**D102 (DUPWS102)**
Laboratory Sample ID #			**80300001**	**80300002**	**80300003**	**80300004**	**80300005**	**80300006**	**80300007**	**80300008**	**80300009**	**803000011**
Sample Date			**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**	**02/13/2001**
Sample Type	**TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)**	**Eastern USA Background**	**Bottom (Cell 1)**	**Bottom (Cell 2)**	**Bottom (Cell 3)**	**Bottom (Cell 4)**	**Bottom (Cell 5)**	**North Sidewall**	**South Sidewall**	**East Sidewall**	**West Sidewall**	**Sidewall**
Depth (ft.)			**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**6.0 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**	**3.5 ft. (BOG)**
Matrix			**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**	**Soil (mg/kg)**
Cobalt	30 or SB	2.5-60	4.3 B	6.70	**4.2 B**	6.70	3.8 B	7.60	**4.9 B**	4.9 B	7.30	6.70
Copper	25 or SB	1000-50000	7.40	8.60	7.80	11.80	5.60	13.60	8.00	6.70	12.30	15.20
Iron	2000 or SB	2000-550000	10600.00	15400.00	10500.00	15300.00	9360.00	17700.00	11700.00	10500.00	16600.00	14800.00
Lead	SB	200-500	.23 U	.42 B	.23 U	.9 B	.16 U	.24 U	0.20	.2 U	.23 U	1.70
Magnesium	SB	100-5000	**9780.00**	**10500.00**	**10800.00**	**12400.00**	**9960.00**	**13300.00**	**8810.00**	**8990.00**	**11600.00**	**9190.00**
Manganese	SB	50-5000	315.00	411.00	314.00	407.00	296.00	518.00	352.00	314.00	424.00	387.00
Mercury	0.1	0.001-0.2	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U	.02 U
Nickel	13 or SB	0.5-25	10.50	16.80	**10.20**	16.40	9.20	18.30	12.00	10.10	18.40	17.30
Potassium	SB	8500-11000	647.00	1120.00	691.00	1100.00	584.00	1,290.00	706.00	627.00	1060.00	862.00
Selenium	2.0 or SB	0.1-3.9	**4.4**	**5.7**	3.80	**6.20**	3.40	**6.50**	**4.70**	**4.1**	**6.00**	**5.80**
Silver	SB	N/A	.11 U	.17 B	.12 U	.2 U	.15 B	.24 B	.14 B	.1 U	.3 B	.16 B
Sodium	SB	6000-8000	119.00	155.00	130.00	179.00	119.00	196.00	135.00	113.00	170.00	129.00
Thallium	SB	N/A	.23 U	.22 U	.23 U	.23 U	.16 U	.24 U	.2 U	.2 U	.7 B	.78 B
Vanadium	150 or SB	1-300	16.50	20.80	16.70	22.60	14.80	25.30	17.20	15.80	24.00	19.50
Zinc	20 or SB	9.0-50	21	29.80	18.70	**34.20**	16.90	38.40	23.40	19.30	35.30	34.50
Cyanide	N/A	N/A	.13 U	.16 U	.15 U	.16 U	.11 U	.18 U	.14 U	.14 U	.13 U	.14 U

* Concentration applicable to sample however additional material removed from location during subsequent excavations, other parameters below TAGM or SB not flagged

Table 1-5
AF-51 Analytical Data
Area 1 Interim Sampling

Sample Date	Sample ID	Result (TCE)ppm	Location	Purpose	Comments
12/21/00	AFB51-00-SB-5-3(0-6")	670	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(6-12")	NA	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(12-18")	NA	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(18-24")	0.091	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(3'-3'6")	NA	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(4'-4'6")	NA	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(5'-5'6")	2.3	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(6'-6'6")	NA	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(8'-8'6")	0.014	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/21/00	AFB51-00-SB-5-3(9'-9'6")	NA	Cell 5 center soil boring	Vertical delineation	Soil boring to groundwater
12/22/00	AFB51-00-SB-1-3(0-6")	NA	Cell 1 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-1-3(6-12")	NA	Cell 1 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-1-3(12-18")	0.34	Cell 1 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-1-3(18-24")	0.037	Cell 1 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-2-3(0-6")	130	Cell 2 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-2-3(6-12")	110	Cell 2 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-2-3(12-18")	0.038	Cell 2 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-2-3(18-24")	0.11	Cell 2 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-3-3(0-6")	79	Cell 3 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-3-3(6-12")	NA	Cell 3 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-3-3(12-18")	0.041	Cell 3 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-3-3(18-24")	.076 J	Cell 3 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-4-3(0-6")	NA	Cell 4 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-M-4-3(0-6")	11	Cell 4 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-4-3(6-12")	NA	Cell 4 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-4-3(12-18")	NA	Cell 4 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-4-3(18-24")	5 J	Cell 4 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-6-3(0-6")	0.015	Cell 6 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-6-3(6-12")	NA	Cell 6 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-6-3(12-18")	NA	Cell 6 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
12/22/00	AFB51-00-SB-6-3(18-24")	.002 J	Cell 6 center soil boring	Vertical delineation	Soil boring 2' below initial post-ex
1/25/01	AFB51-01-SB-1-4(3')	NA	Cell 1 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-1-4(4')	NA	Cell 1 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-1-4(5')	NA	Cell 1 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-1-4(6')	NA	Cell 1 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-2-4(3')	4.148	Cell 2 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-2-4(4')	4.584	Cell 2 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-2-4(5')	3.47	Cell 2 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-2-4(6')	3.656	Cell 2 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-3-4(3')	13.178	Cell 3 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-3-4(4')	24.65	Cell 3 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-3-4(5')	11.06	Cell 3 center test pit	Vertical delineation	Test pit sample 1-foot intervals

Table 1-5
AF-51 Analytical Data
Area 1 Interim Sampling

Sample Date	Sample ID	Result (TCE)ppm	Location	Purpose	Comments
1/25/01	AFB51-01-SB-3-4(6')	12.064	Cell 3 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-4-4(3')	16.766	Cell 4 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-4-4(4')	NA	Cell 4 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-4-4(5')	NA	Cell 4 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-4-4(6')	16.766	Cell 4 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-6-4(3')	0.43	Cell 6 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-6-4(4')	0.63	Cell 6 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-6-4(5')	0.568	Cell 6 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/25/01	AFB51-01-SB-6-4(6')	0.506	Cell 6 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/30/01	AFB51-01-SB-2-5(6-7')	0.0075	Cell 1 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/31/01	AFB51-01-SB-5-4(1.5')	<DL	Cell 5 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/31/01	AFB51-01-SB-5-4(3')	3.354	Cell 5 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/31/01	AFB51-01-SB-5-4(4')	0.0196	Cell 5 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/31/01	AFB51-01-SB-5-4(5')	2.644	Cell 5 center test pit	Vertical delineation	Test pit sample 1-foot intervals
1/31/01	AFB51-01-SB-6-4(1')	NA	Cell 6 center test pit	Vertical delineation	Test pit sample 1-foot intervals

Table 1-6
AF-51 Analytical Data
Area 1 -Groundwater

		Post Exc. GW
Sample No. Laboratory Sample ID # Sample Date Sample Type Depth (ft.) Matrix	Technical and Operational Guidance Series Recommended GW Standards/Guidance Values(ug/l)	01GW1 80312001 02/14/2001 Groundwater 6.0 ft. (BOG) GW (ug/l)
Volatiles (ug/l)		
Acetone	50.00	1000 U
Benzene	1.00	1000 U
Benzoic Acid	NS	1000 U
2-Butanone	50.00	1000 U
Carbon Disulfide	50.00	1000 U
Carbon Tetrachloride	NS	1000 U
Chlorobenzene	5.00	1000 U
Chloroethane	5.00	1000 U
Chloroform	7.00	1000 U
Dibromochloromethane	5.00	1000 U
1,2-Dichlorobenzene	5.00	1000 U
1,3-Dichlorobenzene	5.00	1000 U
1,4-Dichlorobenzene	5.00	1000 U
1,1-Dichloroethane	0.60	1000 U
1,2-Dichloroethane	5.00	1000 U
1,1-Dichloroethene	5.00	1000 U
1,2-Dichloroethene	5.00	1000 U
1-3 Dichloropropane	5.00	1000 U
Ethylbenzene	5.00	1000 U
113 Freon (1,1,2 Trichloro-1,2,2)	5.00	1000 U
Methylene Chloride	5.00	1000 U
4-Methyl-2-Pentanone	NS	1000 U
Tetrachloroethene	5.00	1000 U
1,1,1-Trichloroethane	5.00	1000 U
1,1,2,2-Tetrachloroethane	5.00	1000 U
1,2,3-Trichloropropane	5.00	1000 U
1,2,4-Trichlorobenzene	5.00	1000 U
Toluene	5.00	1000 U
Trichloroethene	5.00	14,000
Vinyl Chloride	2.00	1000 U
Xylene	5.00	1000 U
Semivolatiles (ug/l)		
Acenaphthene	NS	10 U
Acenaphthylene	NS	10 U
Aniline	5.00	10 U
Anthracene	50.00	10 U
Benzo(a)anthracene	0.002	10 U
Benzo (a) pyrene	0.002	10 U
Benzo (b) flouranthene	0.002	10 U
Benzo (g,h,I) perylene	NS	10 U
Benzo (k) flouranthene	0.002	10 U
Bis (2-ethylhexyl) phthalate	50.00	10 U
Butylbenzylphthlate	50.00	10 U
Chrysene	0.002	10 U
4-Chloroaniline	5.00	10 U
4-Chloro-3-methylphenol	5.00	10 U
2-Chlorophenol	5.00	10 U
Dibenzofuran	NS	10 U
Dibenzo (a,h) anthracene	NS	10 U
3,3-Dichlorobenzidine	5.00	10 U
2,4 Dichlorophenol	5.00	10 U
2,4-Dinitrophenol	5.00	20 U
2,6-Dinitrotoluene	NS	10 U
Diethylphthalate	50.00	1 JB
Dimethylphthlate	50.00	10 U
Di-n-butyl phthalate	50.00	10 U
Di-n-octyl phthlate	50.00	10 U
Fluroanthene	50.00	10 U
Fluorene	50.00	10 U
Hexachlorobenzene	0.04	10 U
Indeno (1,2,3-cd) Pyrene	0.002	10 U

Table 1-6
AF-51 Analytical Data
Area 1 -Groundwater

		Post Exc. GW
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**Technical and Operational Guidance Series Recommended GW Standards/Guidance Values(ug/l)**	**01GW1** **80312001** **02/14/2001** **Groundwater** **6.0 ft. (BOG)** **GW (ug/l)**
Isophorone	50.00	10 U
2-Methylnaphthalene	NS	2 J
2-Methylphenol	5.00	10 U
4-Methylphenol	5.00	10 U
Napthalene	10.00	10 U
Nitrobenzene	5.00	10 U
2-Nitroaniline	5.00	20 U
2-Nitrophenol	5.00	10 U
4-Nitrophenol	5.00	20 U
3-Nitroaniline	5.00	20 U
Pentachlorophenol	1.00	20 U
Phenanthrene	50.00	10 U
Phenol	1.00	10 U
Pyrene	50.00	10 U
2,4,5-Trichlorophenol	1.00	20 U
PCBs (ug/l)		
Aroclor-1016	0.09	1 U
Aroclor-1221	0.09	1 U
Aroclor-1232	0.09	1 U
Aroclor-1242	0.09	1 U
Aroclor-1248	0.09	1 U
Aroclor-1254	0.09	1 U
Aroclor-1260	0.09	1 U
Pesticide (ug/l)		
Aldrin	NS	.05 U
Alpha-BHC	NS	.05 U
Beta-BHC	NS	.05 U
Delta-BHC	NS	.05 U
Chlordane	0.05	.05 U
2,4-D	50	.05 U
4,4-DDD	NS	.05 U
4,4-DDE	NS	.1 U
4,4-DDT	NS	.1 U
Dibenzo-P-dioxin	NS	.05 U
Dieldrin	0.004	.1 U
Endosulfan I	NS	.05 U
Endosulfan II	NS	.1 U
Endosulfan Sulfate	NS	.1 U
Endrin	NS	.1 U
Endrin Keytone	NS	.1 U
Gamma-BHC	NS	.05 U
Gamma-chlordane	NS	.05 U
Heptachlor	0.04	.05 U
Heptachlor epoxide	0.03	.05 U
Methoxychlor	35	.5 U
Mitotane	NS	.05 U
Parathion	NS	.05 U
Polychorinated dibenzo-furans	NS	.05 U

Table 1-6
AF-51 Analytical Data
Area 1 -Groundwater

		Post Exc. GW
Sample No. **Laboratory Sample ID #** **Sample Date** **Sample Type** **Depth (ft.)** **Matrix**	**Technical and Operational Guidance Series Recommended GW Standards/Guidance Values(ug/l)**	**01GW1** **80312001** **02/14/2001** **Groundwater** **6.0 ft. (BOG)** **GW (ug/l)**
Metals (ug/l+A95)		
Aluminum	NS	160 B
Antimony	3	**1.2 B**
Arsenic	25	**2 U**
Barium	1000	**61.9 B**
Beryllium	3	.1 U
Cadmium	5	.53 B
Calcium	NS	56100
Chromium	NS	.5 U
Cobalt	NS	2.8 B
Copper	200	16.2 B
Iron	300	229
Lead	25	2 U
Magnesium	35000	20100
Manganese	300	244
Mercury	0.7	**.13 U**
Nickel	100	**3.5 B**
Potassium	NS	1440
Selenium	10	8.3 B
Silver	50	**1.8 B**
Sodium	20000	5520
Thallium	0.5	**2.2 B**
Vanadium	NS	12.9 B
Zinc	2000	6 U
Cyanide	NS	3 U

Data Flag/Qualifiers

J This flag indicates an estimated value due to either:
- the compound was detected at below the Reporting Limit, or
- estimated concentration for Tentatively Identified Compound

For Volatiles and Semivolatiles analyses, detections will be assigned a "J" value up to five or ten times lower than the Reporting Limit, respectively.

B For organic analyses, this flag indicates the analyte was also detected in the associated Method Blank. The B flag has an alternative meaning for CLP-type metals analyses, indicating a "trace" concentration below the normal reporting limit and above the detection limit.

D This flag indicates the analyte concentration was obtained from a diluted analysis

E This flag indicates the analyte concentration exceeded the Calibration Range. The E flag has an alternative meaning for CLP-type metals analyses, indicating an estimated concentration due to the presence of interferences.

P This flag is used for Pesticides/PCB/Herbicide analyte when there is a greater than 40% difference for detected concentration between the two GC columns used for Primary and Confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is reported in the Analysis Report.

U Not Detected. This compound was analyzed-for but not detected. Reporting limit is the value listed and is equivalent to our lowest calibration standard.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for Tentatively Identified Compounds where a compound has passed the identification criteria, and has been positively identified.

N/A Not Available

SB Site Background

MDL Method Detection Limit

NR Not Reported

NS Not Sampled

BO Below Original Ground

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

July 19, 2001

Mr. Chris Kane
Roy F. Weston, Inc.
1 Wall Street
Manchester, NH 03101

Subject: COE Analyses – Greece, NY Site
VOA Data Qualifiers

Dear Chris:

Per our telephone conversation the other day and your email dated July 16, 2001, I am submitting this to address your client's concerns regarding sample SS102.

This sample was originally analyzed undiluted, and the result exceeded the instrument's calibration range. This range is from 5-200 ppb; any result above or below this range is considered estimated, because the instrument is not calibrated to measure outside of the established range. Any such results are flagged per EPA protocols, "E" for results above the range and "J" for below. In this case the instrument estimated the concentration at 1000 ppb and flagged the result with an "E."

Again, the accuracy of this result questionable because it is greater than the upper limits of the calibration and requires a dilution. The dilution will bring the analyte within calibration range, and the amount detected is then multiplied by the dilution factor to accurately quantify the final result. This result is also flagged per EPA protocols with a "D" qualifier.

If you have any questions regarding this submittal, please call me or Ed Lawler at the number below.

Regards,

Paul A. Senecal
Vice President

APPENDIX C

BORING LOGS

HTRW DRILLING LOG

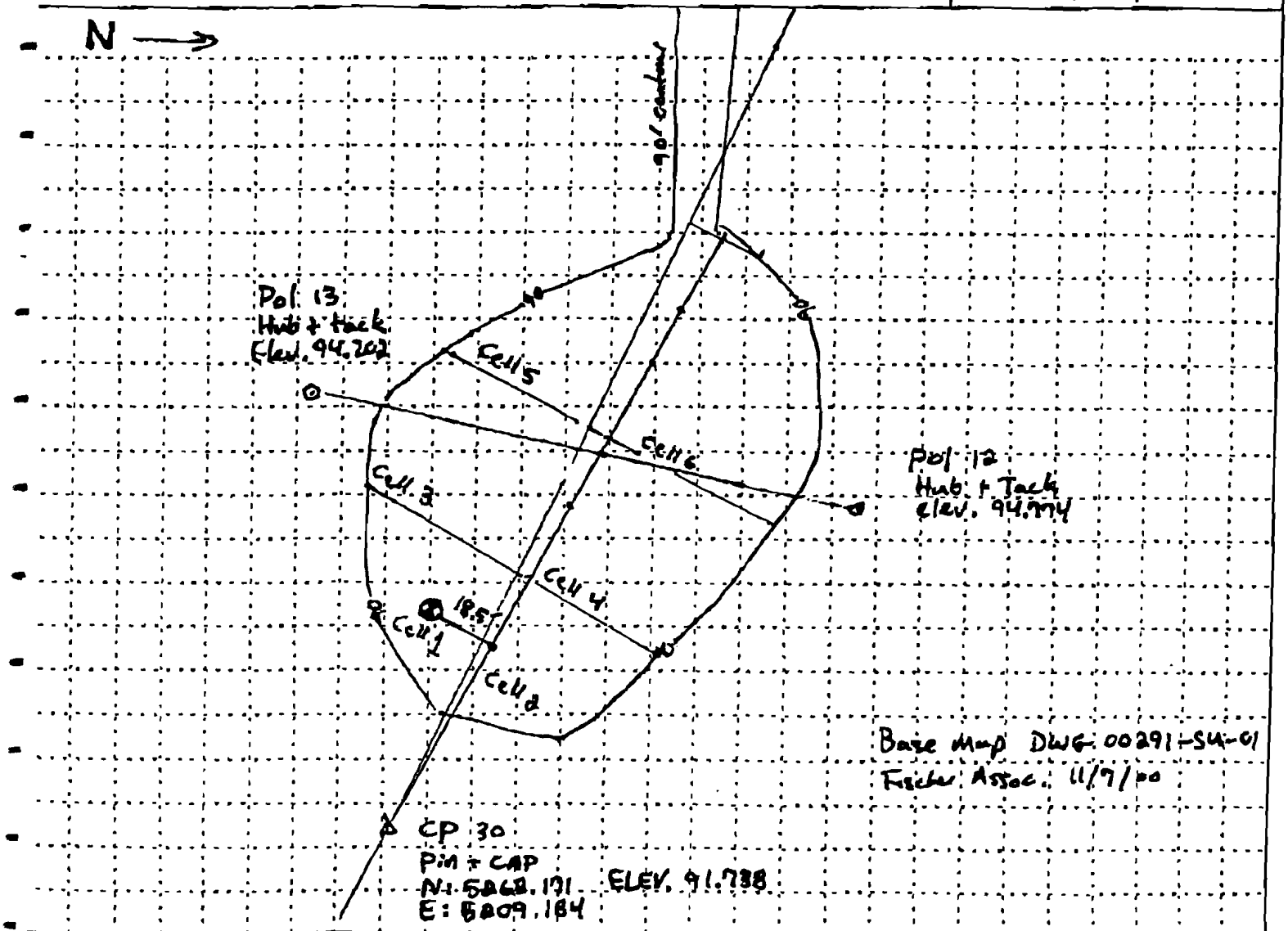
	DISTRICT: RAPID RESPONSE OMAHA	HOLE NUMBER: SB-1
1. COMPANY NAME: ROY F. WESTON	2. DRILL SUBCONTRACTOR: NOTHNAGLE DRILLING	SHEET 1 OF 2
3. PROJECT: AFP 51 GREECE NY	4. LOCATION: 4800 DEWEY AVENUE	
5. NAME OF DRILLER: Steve Gelser	6. MANUFACTURER'S DESIGNATION OF DRILL: CME-55 Bombardier	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HSA 4¼ ID; 3" Stainless Steel Split Spoon	8. HOLE LOCATION: Cell #1 Area 1	
	9. SURFACE ELEVATION: ± 90	
	10. DATE STARTED: 12/22/00	11. DATE COMPLETED: 12/22/00
12. OVERBURDEN THICKNESS: 21'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 21'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	4	4				

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite Chips	✓			

LOCATION SKETCH/COMMENTS: AFP 51 AREA 1 LAGOON — SCALE: 1"=40'



PROJECT: Former Air Force Base Plant 51 Greece, NY — HOLE NO. SB-1

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-1

PROJECT: AFP 51 Greece, NY

INSPECTOR: Steven A. OBrien

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS OVM (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	.5	brown moist coarse to fine sand w/TR silt trace fine gravel GM/NC	←		9501	56	
			←		2,400	93	20/20 Rec.
	1.0		←		1213	82	
						10 1/2	
	1.5	red brown coarse fine sand and silt little coarse to fine gravel GM/NC	←		1960		
	2.0						EOB 2.0'

PROJECT: Former A.F. Force Base Plant 51 Greece, NY

HOLE NO. SB-1

ENG FORM 5056A-R, AUG 94

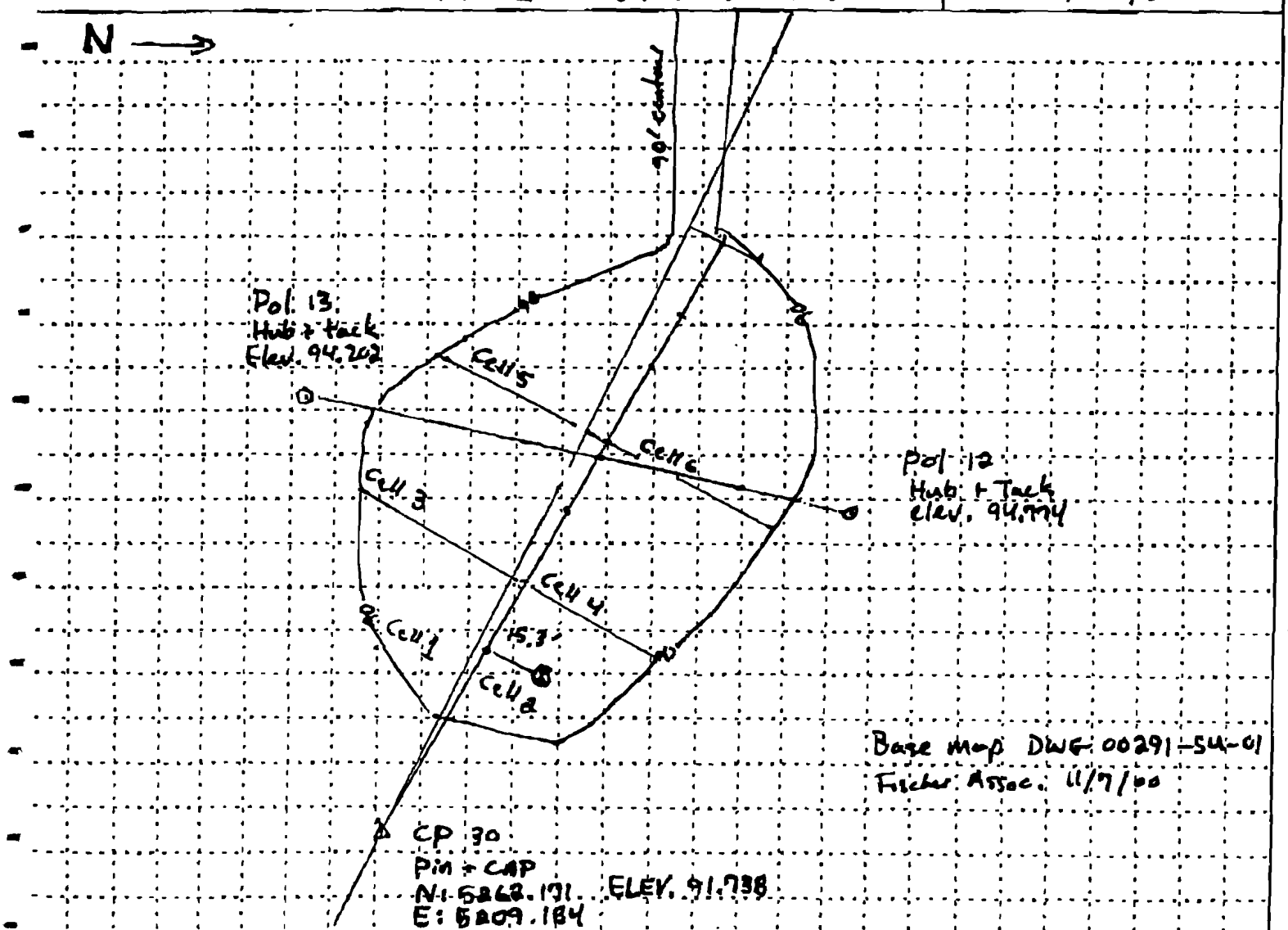
(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT: RAPID RESPONSE OMAHA		HOLE NUMBER: SB-2
1. COMPANY NAME: ROY F. WESTON	2. DRILL SUBCONTRACTOR: NOTHNAGLE DRILLING	SHEET 1 OF 2
3. PROJECT: AFP 51 GREECE NY	4. LOCATION: 4800 DEWEY AVENUE	
5. NAME OF DRILLER: Steve Gelser	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 Bombardier	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HSA 4¼" ID; 3" Stainless Steel spoon	8. HOLE LOCATION: Area 1 lagoon	
	9. SURFACE ELEVATION: ± 90'	
	10. DATE STARTED: 12/21/00	11. DATE COMPLETED: 12/21/00
12. OVERBURDEN THICKNESS: 21'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 21'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
NONE						
20. SAMPLES FOR CHEMICAL ANALYSIS	**VOC**	**METALS**	**OTHER (SPECIFY)**	**OTHER (SPECIFY)**	**OTHER (SPECIFY)**	**21. TOTAL CORE RECOVERY %**
4	4					
22. DISPOSITION OF HOLE	**BACKFILLED**	**MONITORING WELL**	**OTHER (SPECIFY)**	**23. SIGNATURE OF INSPECTOR**		
Bentonite chips	✓					

LOCATION SKETCH/COMMENTS: AFP 51 AREA 1 LAGOON — SCALE: 1"=40'



PROJECT: Former Air Force Base Plant 51 Greece, NY — HOLE NO. SB-2

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER SB-2

PROJECT AFP 51 Greece, NY | INSPECTOR Steven A. OBrien | SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS OVM (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	.5	red brown moist coarse to fine sand little silt + Medium to Fine Gravel SM/NC	←	2480	1	31	
	1.0	brown damp to moist fine sand little silt Trace coarse to fine Gravel SM/NC	←	2700	2	62	Rec = 24/24
	1.5		←	2560	3	68	
	2.0		←	2600	4	73	For 2.0'

PROJECT Former Air Force Base Plant 51 Greece, NY | HOLE NO. SB-2

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

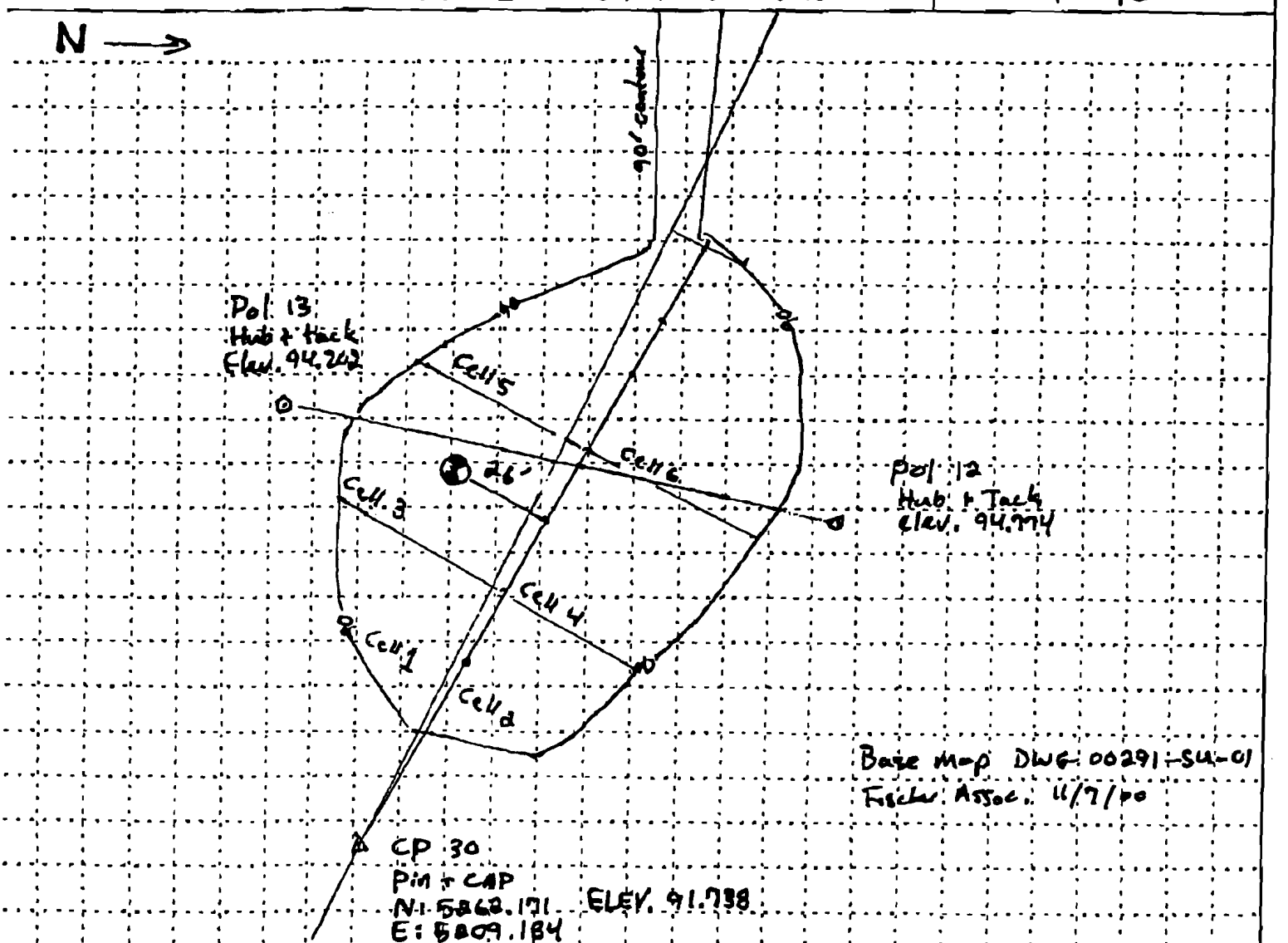
DISTRICT: RAPID RESPONSE OMAHA	HOLE NUMBER: SB-3
1. COMPANY NAME: ROY F. WESTON	2. DRILL SUBCONTRACTOR: NOTHNAGLE DRILLING
	SHEET 1 OF 2
3. PROJECT: AFP 51 GREECE NY	4. LOCATION: 4800 DEWEY AVENUE
5. NAME OF DRILLER: Steve Gelser	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 Bombadier
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HSA 4¼ ID; 3" Stainless Steel Spoon	8. HOLE LOCATION: Area 1 lagoon
	9. SURFACE ELEVATION: ~90'
	10. DATE STARTED: 12/22/00
	11. DATE COMPLETED: 12/22/00
12. OVERBURDEN THICKNESS: 2'	15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA
14. TOTAL DEPTH OF HOLE: 2'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
4	4	4				

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite chips	✓			

LOCATION SKETCH/COMMENTS: AFP 51 AREA 1 LAGOON — SCALE 1"=40'



PROJECT: [illegible] Rock Plant 51 Greece, NY — HOLE NO. SB-3

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-3

PROJECT: AFP 51 Greece, NY

INSPECTOR: Steven A. OBrien

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0.5	Red brown damp Silt little coarse to fine Sand Trace coarse to fine Gravel GM/NC	1089	39	1		Rec. = 23/24
	1.0		1001	46	2		Glacial Till
	1.5		2950	96 88	3		
	2.0	brown damp coarse to fine Sand little Silt Trace fine Gravel	2080		4		EOB 2.0'

HTRW DRILLING LOG

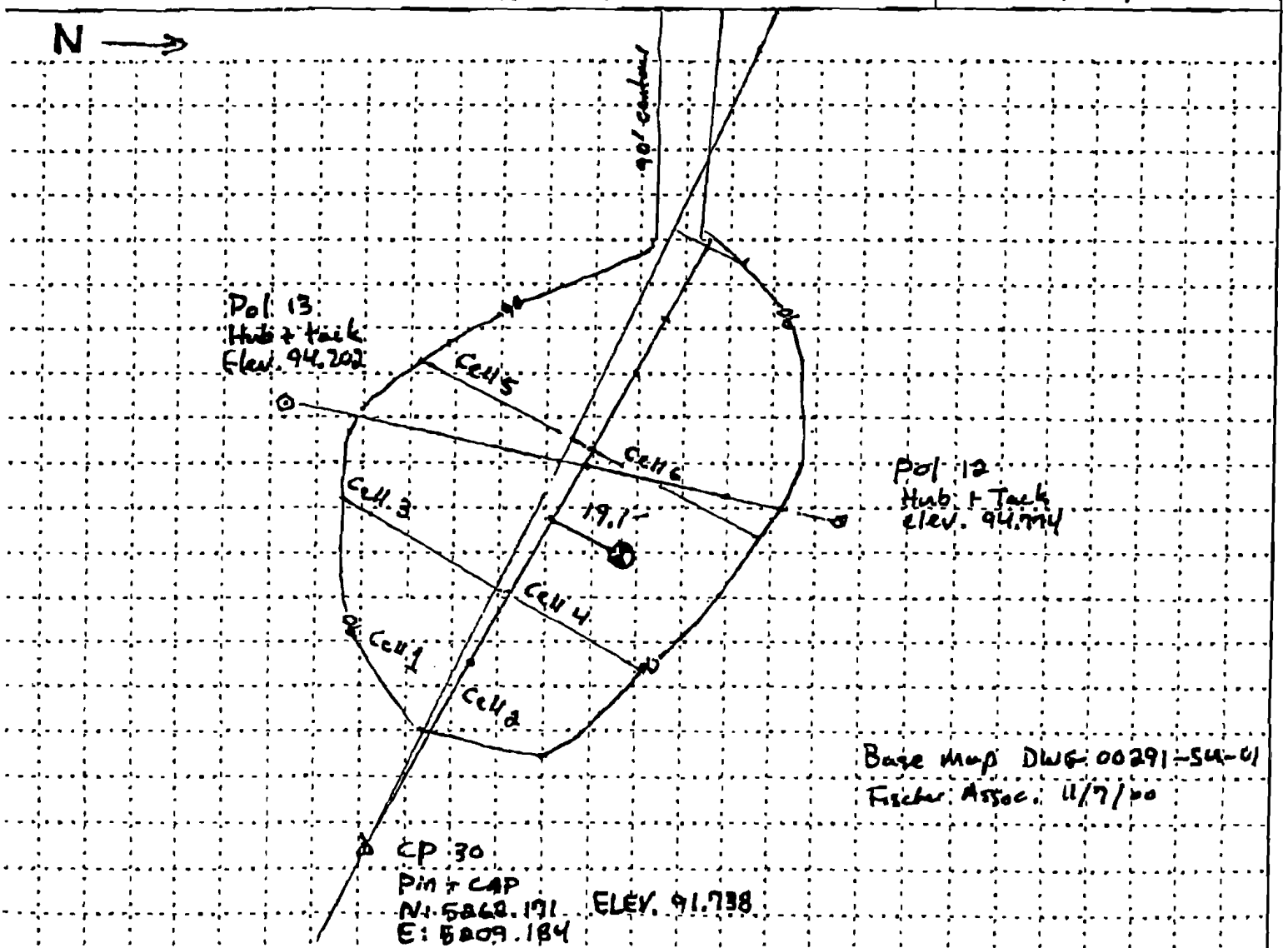
	DISTRICT: RAPID RESPONSE OMAHA	HOLE NUMBER: SB-4
1. COMPANY NAME: ROY F. WESTON	2. DRILL SUBCONTRACTOR: NOTHNAGLE DRILLING	SHEET 1 OF 2 SHEETS
3. PROJECT: AFP 51 GREECE NY	4. LOCATION: 4800 DEWEY AVENUE	
5. NAME OF DRILLER: Steve Gelser	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 Bombadier	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HSA 4¼ ID; 3" Stainless Steel Spoon	8. HOLE LOCATION: Area 1 Lagoon	
	9. SURFACE ELEVATION: ≈ 90'	
	10. DATE STARTED: 12/21/00	11. DATE COMPLETED: 12/21/00
12. OVERBURDEN THICKNESS: 2'	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 2'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
4	4	4				

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite chips	✓			

LOCATION SKETCH/COMMENTS: AFP 51 AREA 1 LAGOON — SCALE: 1"=40'



PROJECT: [illegible] AFP 51 Greece, NY | HOLE NO. SB-4

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER SB-4

PROJECT AFP 51 Greece, NY | INSPECTOR Steven A. OBrien | SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS OVM (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	.5	brown clay stiff little fine sand trace clay ML/C	1660		1	2	
	1.0		1380		2	2	Rec = 19/24
	1.5		2000		3	3	
	2.0		2600		4	4	EOB 2.0'

PROJECT Former Air Force Base Plant 51 Greece, NY | HOLE NO. SB-4

(Proponent: CECW-EG)

HTRW DRILLING LOG

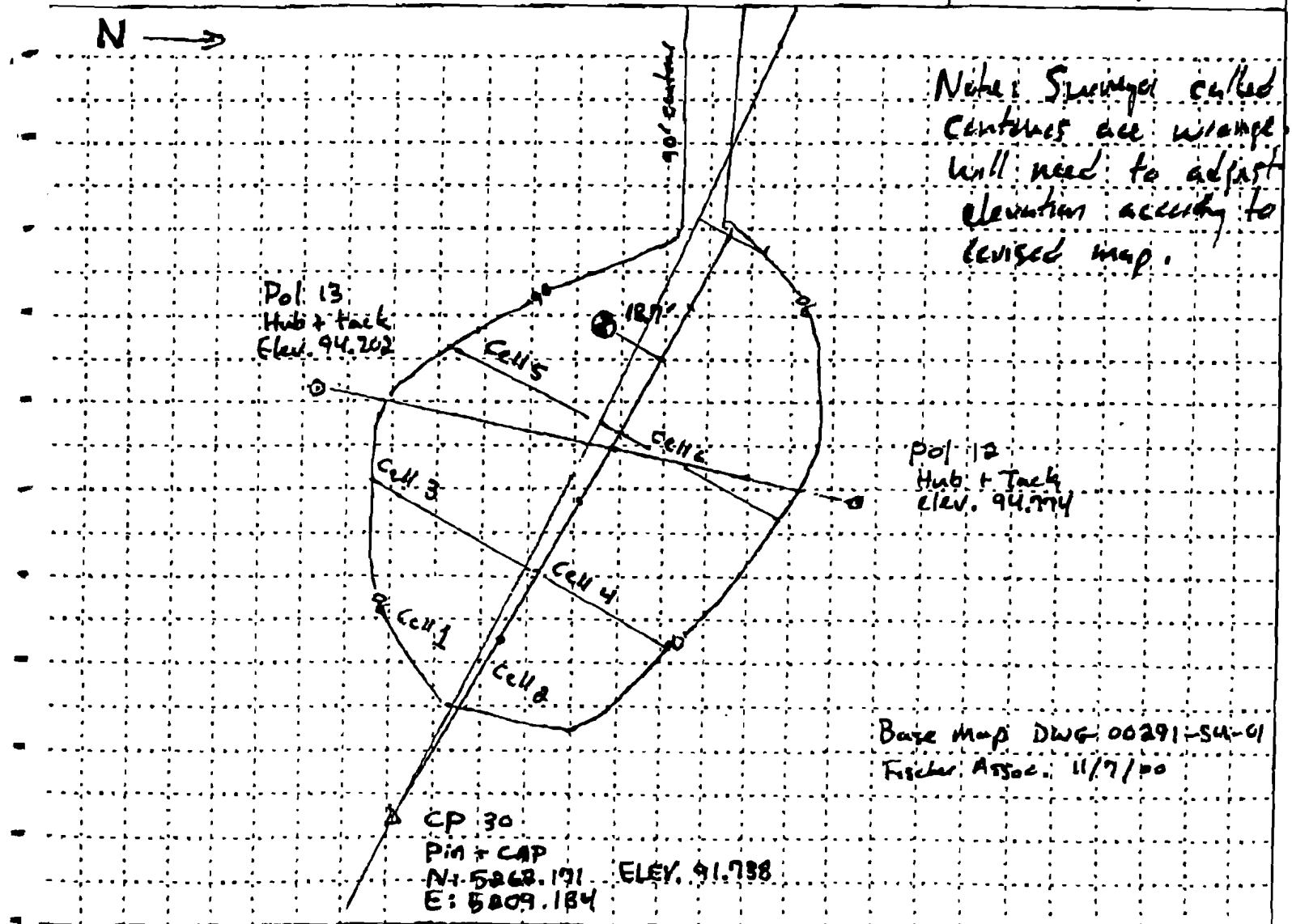
DISTRICT: RAPID RESPONSE OMAHA		HOLE NUMBER: SB-5
1. COMPANY NAME: ROY F. WESTON	2. DRILL SUBCONTRACTOR: NOTHNAGLE DRILLING	SHEET 1 OF 2
3. PROJECT: AFP 51 GREECE NY	4. LOCATION: 4800 DEWEY AVENUE	
5. NAME OF DRILLER: Steve Gelser	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 Bombadier	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HSA 4¼ I.D. Stainless Steel Split Spoon	8. HOLE LOCATION: Cell 5 Area 1 See below	
	9. SURFACE ELEVATION: ≈90'	
	10. DATE STARTED: 12/21/00	11. DATE COMPLETED: 12/21/00
12. OVERBURDEN THICKNESS: 10'	15. DEPTH GROUNDWATER ENCOUNTERED: ≈8'	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 6' after 16 hrs.	
14. TOTAL DEPTH OF HOLE: 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): Tape first. Water level indicator	

18. GEOTECHNICAL SAMPLES: NONE	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS: 10	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	10	10				

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		Piezometer		

LOCATION SKETCH/COMMENTS: AFP 51 AREA 1 LAGOON — SCALE: 1"=40'



PROJECT: Former Air Force Base Plant 51 Greece, NY — HOLE NO. SB-5

HIRW DRILLING LOG CONTINUATION SHEET

PROJECT AFP 51 Greece, NY | INSPECTOR Steven A. OBrien | SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b) ft	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS OVM (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
90	0	Brown fine to coarse Silt & fine Gravel SM/NC	233		1	10 46	22/24" Rec
	.5	red brown damp Silt some fine sand Trace coarse to fine Gravel GM/NC	800		2	40	Glacial Till
	1.0	same	1,800		3	55	
	1.5	same	2,500		4		
	2.0	same				5	
	2.5	brown moist Very fine to fine sand Trace silt & fine Gravel SM/NC	2,900		5	80 84	17/17 = Rec
	3.0					10/9/5	
	3.5	Auger only 3.4'-4.0'	2,400		6		Spoon refusal 3.4'
	4.0	same					
	4.5					48	
	5.0		700		7	50	
	5.5'	Gray brown dry silt little Very fine sand Trace fine gravel ML/NC				39 37	Till 21/24 = Rec
	6.0'		100		8	38	
	6.5	Same				32	
	7.0	Same	Ø		NR	32 31	5/24 = Rec
	7.5	Same					
	8.0	Same	29		9		
	8.5'	Gray brown wet very fine sand some Silt Trace fine Gravel				13	
	9.0'	Same ML/NC	1.1		10	15 19	23/24 = Rec
	9.5	same				21	
	10.0'	same					10.0' EOB

PROJECT Former A.F. Force Base Plant 51 Greece, NY | HOLE NO. SB-5

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

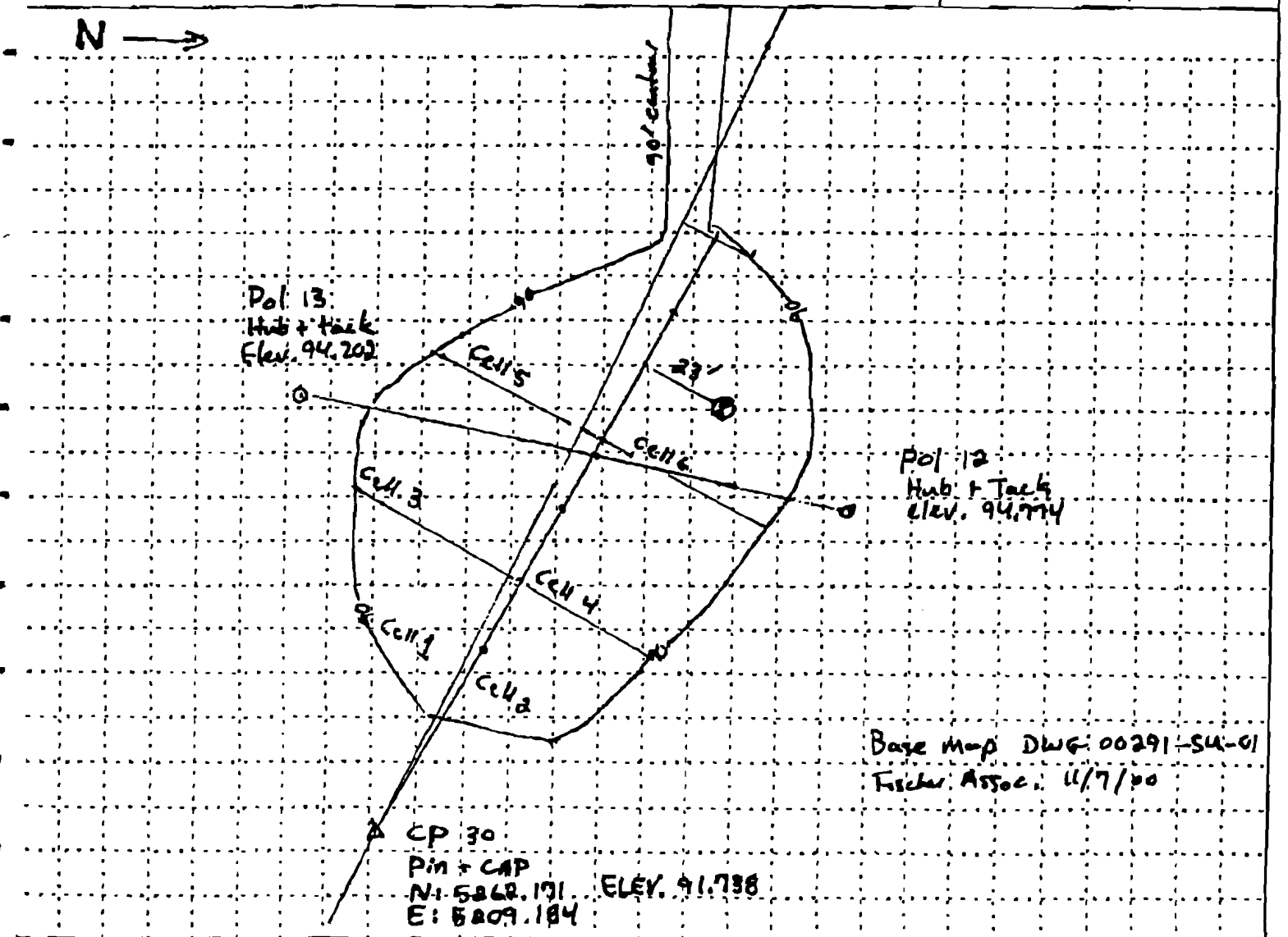
DISTRICT: RAPID RESPONSE OMAHA	HOLE NUMBER: SB-6
1. COMPANY NAME: ROY F. WESTON	2. DRILL SUBCONTRACTOR: NOTHNAGLE DRILLING
	SHEET SHEETS OF
3. PROJECT: AFP 51 GREECE NY	4. LOCATION: 4800 DEWEY AVENUE
5. NAME OF DRILLER: Steve Gelser	6. MANUFACTURER'S DESIGNATION OF DRILL: CME 55 Bombardier
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HSA 4¼ I.D. 3" Stainless Steel Split spoon	8. HOLE LOCATION: Area 1 lagoon
	9. SURFACE ELEVATION: ≈ 90'
	10. DATE STARTED: 12/21/00 — 11. DATE COMPLETED: 12/21/00
12. OVERBURDEN THICKNESS: 21'	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE: 21'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
4	4	4				

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Bentonite chips	✓			

LOCATION SKETCH/COMMENTS: AFP 51 AREA 1 LAGOON — SCALE: 1"=40'



PROJECT: Former Air Force Base Plant 51 Greece, NY — HOLE NO. SB-6

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER SB-6

PROJECT AFP 51 Greece, NY | INSPECTOR Steven A. OBrien | SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS OVM (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	.5	brown damp coarse to fine sand little silt Trace fine gravel / GM/SC	←		101	19	
	1.0		←		102	23	Rec 21/24
	1.5		←		73	31	
	2.0	red brown damp coarse to fine sand and silt Trace coarse to fine gravel / GM/SC	←		354	42	EOB 2.0'

PROJECT Former Air Force Base Plant 51 Greece, NY | HOLE NO. SB-6

(Proponent: CECW-EG)

APPENDIX D

BACKFILL ANALYTICAL DATA

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

			BACKFILL CHARACTERIZATION SAMPLES						
Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill-01 72112001 12/13/2000 Grab (0-500 cy) Processed Sand (mg/kg)	Clean Fill-02 72112002 12/13/2000 Grab (500-1000 cy) Processed Sand (mg/kg)	Clean Fill-03 72112003 12/13/2000 Grab (1000-1500 cy) Processed Sand (mg/kg)	Clean Fill 04 80256001 02/07/2001 Grab (1500-2000 cy) Bank Run (mg/kg)	Clean Fill 05 80256002 02/07/2001 Grab (2000-2500 cy) Bank Run (mg/kg)	Clean Fill 06 80256003 02/07/2001 Grab (2500-3000 cy) Bank Run (mg/kg)	Clean Fill 07 80267001 02/08/2001 Grab (0-400 cy) Sand (mg/kg)
Volatiles									
Acetone	0.20		.005 BJ	.005 BJ	.006 B	.006U	.006 U	.006 U	.005 U
Benzene	0.06		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Benzoic Acid	2.70		NR	NR	NR	NR	.006 U	.006 U	NR
2-Butanone	0.30		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Carbon Disulfide	2.70		.006 U	.006 U	.006 U	.001J	.005J	.006 U	.005 U
Carbon Tetrachloride	0.60		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Chlorobenzene	1.70		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Chloroethane	1.90		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Chloroform	0.30		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Dibromochloromethane	N/A		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,2-Dichlorobenzene	7.90		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,3-Dichlorobenzene	1.60		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,4-Dichlorobenzene	8.50		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,1-Dichloroethane	0.20		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,2-Dichloroethane	0.10		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,1-Dichloroethene	0.40		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,2-Dichloroethene	0.30		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1-3 Dichloropropane	0.30		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Ethylbenzene	5.50		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
113 Freon (1,1,2 Trichloro-1,2,2)	6.00		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Methylene Chloride	0.10		.006 U	.006 U	.006 U	.004J	.004 J	.004 J	.005 U
4-Methyl-2-Pentanone	1.00		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Tetrachloroethene	1.40		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,1,1-Trichloroethane	0.80		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,1,2,2-Tetrachloroethane	0.60		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,2,3-Trichloropropane	0.40		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
1,2,4-Trichlorobenzene	3.40		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Toluene	1.50		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Trichloroethene	0.70		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Vinyl Chloride	0.20		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U
Xylene	1.20		.006 U	.006 U	.006 U	.006U	.006 U	.006 U	.005 U

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill 08 80256005 02/07/2001 Grab (3000-3500 cy) Bank Run (mg/kg)	Clean Fill 09 80256006 02/07/2001 Grab (3500-4000 cy) Bank Run (mg/kg)	Clean Fill 10 80256007 02/07/2001 Grab (4000-4500 cy) Bank Run (mg/kg)	Clean Fill 11 80256008 02/07/2001 Grab (4500-5000 cy) Bank Run (mg/kg)	Clean Fill 12 80256009 02/07/2001 Grab (5000-5500 cy) Bank Run (mg/kg)	Clean Fill 13 802560010 02/07/2001 Grab (5500-6000 cy) Bank Run (mg/kg)	Clean Fill 14 80256011 02/07/2001 Grab (6500-7000 cy) Bank Run (mg/kg)	Clean Fill 15 80256012 02/07/2001 Grab (7000-7500 cy) Bank Run (mg/kg)
Volatiles										
Acetone	0.20		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Benzene	0.06		.006 U	.006 U	.006 U	.005 U	.002 J	.006 U	.006 U	.006 U
Benzoic Acid	2.70		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
2-Butanone	0.30		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Carbon Disulfide	2.70		.006 U	.006 U	.001 J	.005 U	.006 U	.006 U	.006 U	.006 U
Carbon Tetrachloride	0.60		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Chlorobenzene	1.70		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Chloroethane	1.90		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Chloroform	0.30		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Dibromochloromethane	N/A		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,2-Dichlorobenzene	7.90		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,3-Dichlorobenzene	1.60		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,4-Dichlorobenzene	8.50		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,1-Dichloroethane	0.20		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,2-Dichloroethane	0.10		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,1-Dichloroethene	0.40		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,2-Dichloroethene	0.30		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1-3 Dichloropropane	0.30		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Ethylbenzene	5.50		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
113 Freon (1,1,2 Trichloro-1,2,2)	6.00		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Methylene Chloride	0.10		.003 J	.004 J	.006 U	.006	.011	.007	.008	.008
4-Methyl-2-Pentanone	1.00		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Tetrachloroethene	1.40		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,1,1-Trichloroethane	0.80		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,1,2,2-Tetrachloroethane	0.60		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,2,3-Trichloropropane	0.40		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
1,2,4-Trichlorobenzene	3.40		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Toluene	1.50		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Trichloroethene	0.70		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Vinyl Chloride	0.20		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U
Xylene	1.20		.006 U	.006 U	.006 U	.005 U	.006 U	.006 U	.006 U	.006 U

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

			BACKFILL CHARACTERIZATION SAMPLES						
Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill-01 72112001 12/13/2000 Grab (0-500 cy) Processed Sand (mg/kg)	Clean Fill-02 72112002 12/13/2000 Grab (500-1000 cy) Processed Sand (mg/kg)	Clean Fill-03 72112003 12/13/2000 Grab (1000-1500 cy) Processed Sand (mg/kg)	Clean Fill 04 80256001 02/07/2001 Grab (1500-2000 cy) Bank Run (mg/kg)	Clean Fill 05 80256002 02/07/2001 Grab (2000-2500 cy) Bank Run (mg/kg)	Clean Fill 06 80256003 02/07/2001 Grab (2500-3000 cy) Bank Run (mg/kg)	Clean Fill 07 80267001 02/08/2001 Grab (0-400 cy) Sand (mg/kg)
Semivolatiles									
Acenaphthene	50.00		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Acenaphthylene	41.00		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Aniline	0.10		NR	NR	NR	.41 U	.42 U	.41 U	.35 U
Anthracene	50.00		.38 U	.36 U	.39 U	.072 J	.42 U	.41 U	.35 U
Benzo(a)anthracene	0.22		.38 U	.36 U	.087 J	.32 J	.13 J	.14 J	.35 U
Benzo (a) pyrene	.061 or MDL		.38 U	.36 U	.14 J	.41	.19 J	.21 J	.35 U
Benzo (b) flouranthene	1.10		.38 U	.36 U	.21 J	.50	30 J	.31 J	.35 U
Benzo (g,h,I) perylene	50.00		.38 U	.36 U	.14 J	.31 J	.20 J	.23 J	.35 U
Benzo (k) flouranthene	1.10		.38 U	.36 U	.084 J	.19 J	.10 J	.10 J	.35 U
Bis (2-ethylhexyl) phthalate	50.00		.38 U	.36 U	.39 U	.41 U	.16 JB	.17 JB	.18 U
Butylbenzylphthlate	50.00		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Chrysene	0.40		.38 U	.36 U	.14 J	.35 J	.20 J	.21 J	.35 U
4-Chloroaniline	.22 or MDL		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
4-Chloro-3-methylphenol	.24 or MDL		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
2-Chlorophenol	0.80		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Dibenzofuran	6.20		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Dibenzo (a,h) anthracene	.014 or MDL		.38 U	.36 U	.39 U	.57 J	.42 U	.41 U	.35 U
3,3-Dichlorobenzidine	N/A		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
2,4 Dichlorophenol	0.40		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
2,4-Dinitrophenol	.2 or MDL		.78 U	.74 U	.8 U	.83 U	.86 U	.83 U	.71 U
2,6-Dinitrotoluene	1.00		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Diethylphthlate	7.10		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Dimethylphthlate	2.00		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Di-n-butyl phthalate	8.10		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Di-n-octyl phthlate	50.00		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Fluroanthene	50.00		.041 J	.36 U	.23 J	.56	.33 J	.37 J	.35 U
Fluorene	50.00		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Hexachlorobenzene	0.41		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Indeno (1,2,3-cd) Pyrene	3.20		.38 U	.36 U	.13 J	.34 J	.20 J	.22 J	.35 U
Isophorone	4.40		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
2-Methylnaphthalene	36.40		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
2-Methylphenol	.1 or MDL		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
4-Methylphenol	0.90		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Napthalene	13.00		.38 U	.36 U	.05 U	.41 U	.42 U	.41 U	.35 U
Nitrobenzene	.2 or MDL		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
2-Nitroaniline	.43 or MDL		.78 U	.74 U	.8 U	.83 U	.86 U	.83 U	.71 U
2-Nitrophenol	.33 or MDL		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
4-Nitrophenol	.1 or MDL		.78 U	.74 U	.8 U	.83 U	.86 U	.83 U	.71 U
3-Nitroaniline	.5 or MDL		.78 U	.74 U	.8 U	.83 U	.86 U	.83 U	.71 U
Pentachlorophenol	1 or MDL		.78 U	.74 U	.8 U	.83 U	.86 U	.83 U	.71 U
Phenanthrene	50.00		.38 U	.36 U	.069 J	.29 J	.11 J	.11 U	.35 U
Phenol	.03 or MDL		.38 U	.36 U	.39 U	.41 U	.42 U	.41 U	.35 U
Pyrene	50.00		.38 U	.36 U	.21 J	.50	.30 J	.32 J	.35 U
2,4,5-Trichlorophenol	0.10		.78 U	.74 U	.8 U	.83 U	.86 U	.83 U	.71 U

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill 08 80256005 02/07/2001 Grab (3000-3500 cy) Bank Run (mg/kg)	Clean Fill 09 80256006 02/07/2001 Grab (3500-4000 cy) Bank Run (mg/kg)	Clean Fill 10 80256007 02/07/2001 Grab (4000-4500 cy) Bank Run (mg/kg)	Clean Fill 11 80256008 02/07/2001 Grab (4500-5000 cy) Bank Run (mg/kg)	Clean Fill 12 80256009 02/07/2001 Grab (5000-5500 cy) Bank Run (mg/kg)	Clean Fill 13 802560010 02/07/2001 Grab (5500-6000 cy) Bank Run (mg/kg)	Clean Fill 14 80256011 02/07/2001 Grab (6500-7000 cy) Bank Run (mg/kg)	Clean Fill 15 80256012 02/07/2001 Grab (7000-7500 cy) Bank Run (mg/kg)
Semivolatiles										
Acenaphthene	50.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Acenaphthylene	41.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Aniline	0.10		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Anthracene	50.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Benzo(a)anthracene	0.22		.08 J	.13 J	.07 J	.36 U	.39 U	.38 U	.40 U	.38 U
Benzo (a) pyrene	.061 or MDL		.12 J	.17 J	.10 J	.36 U	.39 U	.38 U	.40 U	.38 U
Benzo (b) flouranthene	1.10		.18 J	.25 J	.16 J	.36 U	.39 U	.38 U	.40 U	.38 U
Benzo (g,h,I) perylene	50.00		.13 J	.16 J	.11 J	.36 U	.39 U	.38 U	.40 U	.38 U
Benzo (k) flouranthene	1.10		.06 J	.12 J	.05 J	.36 U	.39 U	.38 U	.40 U	.38 U
Bis (2-ethylhexyl) phthalate	50.00		.19 JB	.22 JB	.18 JB	.47 B	.16 JB	.17 JB	.21 JB	.16 JB
Butylbenzylphthlate	50.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Chrysene	0.40		.12 J	.18 J	.11 J	.36 U	.39 U	.38 U	.40 U	.38 U
4-Chloroaniline	.22 or MDL		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
4-Chloro-3-methylphenol	.24 or MDL		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
2-Chlorophenol	0.80		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Dibenzofuran	6.20		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Dibenzo (a,h) anthracene	.014 or MDL		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
3,3-Dichlorobenzidine	N/A		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
2,4 Dichlorophenol	0.40		.86 U	.89 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
2,4-Dinitrophenol	.2 or MDL		.42 U	.44 U	.86 U	.72 U	.78 U	.78 U	.81 U	.77 U
2,6-Dinitrotoluene	1.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Diethylphthlate	7.10		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Dimethylphthlate	2.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Di-n-butyl phthalate	8.10		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Di-n-octyl phthlate	50.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Fluroanthene	50.00		.21 J	.32 J	.19 J	.36 U	.39 U	.38 U	.40 U	.38 U
Fluorene	50.00		.42 U	.44 U	.42 U	.72 U	.39 U	.38 U	.40 U	.38 U
Hexachlorobenzene	0.41		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Indeno (1,2,3-cd) Pyrene	3.20		.12 J	.16 J	.10 J	.36 U	.39 U	.38 U	.40 U	.38 U
Isophorone	4.40		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
2-Methylnaphthalene	36.40		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
2-Methylphenol	.1 or MDL		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
4-Methylphenol	0.90		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Napthalene	13.00		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Nitrobenzene	.2 or MDL		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
2-Nitroaniline	.43 or MDL		.86 U	.89 U	.86 U	.72 U	.78 U	.78 U	.81 U	.77U
2-Nitrophenol	.33 or MDL		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
4-Nitrophenol	.1 or MDL		.86 U	.89 U	.86 U	.72 U	.78 U	.78 U	.81 U	.77 U
3-Nitroaniline	.5 or MDL		.86 U	.89 U	.86 U	.72 U	.78 U	.78 U	.81 U	.77 U
Pentachlorophenol	1 or MDL		.86 U	.89 U	.86 U	.72 U	.78 U	.78 U	.81 U	.77 U
Phenanthrene	50.00		.07 J	.11 J	.06 J	.36 U	.39 U	.38 U	.40 U	.38 U
Phenol	.03 or MDL		.42 U	.44 U	.42 U	.36 U	.39 U	.38 U	.40 U	.38 U
Pyrene	50.00		.18 J	.29 J	.17 J	.36 U	.39 U	.38 U	.40 U	.38 U
2,4,5-Trichlorophenol	0.10		.86 U	.89 U	.86 U	.72 U	.78 U	.78 U	.81 U	.77 U

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

			BACKFILL CHARACTERIZATION SAMPLES						
Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill-01 72112001 12/13/2000 Grab (0-500 cy) Processed Sand (mg/kg)	Clean Fill-02 72112002 12/13/2000 Grab (500-1000 cy) Processed Sand (mg/kg)	Clean Fill-03 72112003 12/13/2000 Grab (1000-1500 cy) Processed Sand (mg/kg)	Clean Fill 04 80256001 02/07/2001 Grab (1500-2000 cy) Bank Run (mg/kg)	Clean Fill 05 80256002 02/07/2001 Grab (2000-2500 cy) Bank Run (mg/kg)	Clean Fill 06 80256003 02/07/2001 Grab (2500-3000 cy) Bank Run (mg/kg)	Clean Fill 07 80267001 02/08/2001 Grab (0-400 cy) Sand (mg/kg)
PCBs (mg/kg)									
Aroclor-1016	1		.039 U	.038 U	04 U	.041 U	.042 U	.041 U	.35 U
Aroclor-1221	1		.039 U	.038 U	.04 U	.041 U	.042 U	.041 U	.35 U
Aroclor-1232	1		.039 U	.038 U	.04 U	.041 U	.042 U	.041 U	.35 U
Aroclor-1242	1		.039 U	.038 U	.04 U	.041 U	.042 U	.041 U	.35 U
Aroclor-1248	1		.039 U	.038 U	.04 U	.041 U	.042 U	.041 U	.35 U
Aroclor-1254	1		.039 U	.038 U	.04 U	.041 U	.042 U	.041 U	.35 U
Aroclor-1260	1		.039 U	.038 U	.04 U	.041 U	.042 U	.041 U	.35 U
Pesticide (mg/kg)									
Aldrin	0.041		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Alpha-BHC	0.11		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Beta-BHC	0.2		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Delta-BHC	0.3		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Chlordane	0.54		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
2,4-D	0.5		NR	NR	NR	NR	NR	NR	NR
4,4-DDD	2.9		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
4,4-DDE	2.1		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
4,4-DDT	2 1		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
Dibenzo-P-dioxin	N/A		NR	0.001 U	NR	NR	NR	NR	0.001 U
Dieldrin	0.044		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
Endosulfan I	0.9		.003 U	0.001 U	.003 U	.002 U	.002 U	.002 U	0.001 U
Endosulfan II	0.9		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
Endosulfan Sulfate	1		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
Endrin	0.1		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
Endrin Keytone	N/A		.003 U	.003 U	.003 U	.004 U	.004 U	.004 U	.003 U
Gamma-BHC	0.06		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Gamma-chlordane	0.54		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Heptachlor	0.1		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Heptachlor epoxide	0.02		.002 U	0.001 U	.002 U	.002 U	.002 U	.002 U	0.001 U
Methoxychlor	N/A		.02 U	.019 U	.02 U	.021 U	.022 U	.021 U	.01 U
Mitotane	N/A		NR	NR	NR	.002 U	NR	NR	NR
Parathion	1.2		NR	NR	NR	.002 U	NR	NR	NR
Polychorinated dibenzo-furans	N/A		NR	NR	NR	.002 U	NR	NR	NR

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill 08 80256005 02/07/2001 Grab (3000-3500 cy) Bank Run (mg/kg)	Clean Fill 09 80256006 02/07/2001 Grab (3500-4000 cy) Bank Run (mg/kg)	Clean Fill 10 80256007 02/07/2001 Grab (4000-4500 cy) Bank Run (mg/kg)	Clean Fill 11 80256008 02/07/2001 Grab (4500-5000 cy) Bank Run (mg/kg)	Clean Fill 12 80256009 02/07/2001 Grab (5000-5500 cy) Bank Run (mg/kg)	Clean Fill 13 802560010 02/07/2001 Grab (5500-6000 cy) Bank Run (mg/kg)	Clean Fill 14 80256011 02/07/2001 Grab (6500-7000 cy) Bank Run (mg/kg)	Clean Fill 15 80256012 02/07/2001 Grab (7000-7500 cy) Bank Run (mg/kg)
PCBs (mg/kg)										
Aroclor-1016	1		.044 U	.044 U	.042 U	.036 U	.039 U	.039 U	.040 U	.038 U
Aroclor-1221	1		.044 U	.044 U	.042 U	.036 U	.039 U	.039 U	.040 U	.038 U
Aroclor-1232	1		.044 U	.044 U	.042 U	.036 U	.039 U	.039 U	.040 U	.038 U
Aroclor-1242	1		.044 U	.044 U	.042 U	.036 U	.039 U	.039 U	.040 U	.038 U
Aroclor-1248	1		.044 U	.044 U	.042 U	.036 U	.039 U	.039 U	.040 U	.038 U
Aroclor-1254	1		.044 U	.044 U	.042 U	.036 U	.039 U	.039 U	.040 U	.038 U
Aroclor-1260	1		.044 U	.044 U	.042 U	.036 U	.039 U	.039 U	.040 U	.038 U
Pesticide (mg/kg)										
Aldrin	0.041		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Alpha-BHC	0.11		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Beta-BHC	0.2		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Delta-BHC	0.3		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Chlordane	0.54		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
2,4-D	0.5		NR	NR	NR	NR	NR	NR	NR	NR
4,4-DDD	2.9		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
4,4-DDE	2.1		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
4,4-DDT	2.1		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
Dibenzo-P-dioxin	N/A		NR	NR	NR	NR	NR	NR	NR	NR
Dieldrin	0.044		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
Endosulfan I	0.9		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Endosulfan II	0.9		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
Endosulfan Sulfate	1		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
Endrin	0.1		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
Endrin Keytone	N/A		.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U	.004 U
Gamma-BHC	0.06		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Gamma-chlordane	0.54		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Heptachlor	0.1		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Heptachlor epoxide	0.02		.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U	.002 U
Methoxychlor	N/A		.022 U	.022 U	.022 U	.018 U	.020 U	.020 U	.020 U	.019 U
Mitotane	N/A		NR	NR	NR	NR	NR	NR	NR	NR
Parathion	1.2		NR	NR	NR	NR	NR	NR	NR	NR
Polychorinated dibenzo-furans	N/A		NR	NR	NR	NR	NR	NR	NR	NR

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

			BACKFILL CHARACTERIZATION SAMPLES						
Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill-01 72112001 12/13/2000 Grab (0-500 cy) Processed Sand (mg/kg)	Clean Fill-02 72112002 12/13/2000 Grab (500-1000 cy) Processed Sand (mg/kg)	Clean Fill-03 72112003 12/13/2000 Grab (1000-1500 cy) Processed Sand (mg/kg)	Clean Fill 04 80256001 02/07/2001 Grab (1500-2000 cy) Bank Run (mg/kg)	Clean Fill 05 80256002 02/07/2001 Grab (2000-2500 cy) Bank Run (mg/kg)	Clean Fill 06 80256003 02/07/2001 Grab (2500-3000 cy) Bank Run (mg/kg)	Clean Fill 07 80267001 02/08/2001 Grab (0-400 cy) Sand (mg/kg)
Metals (mg/kg)									
Aluminum	SB	33000	8810.00	9020.00	12500.00	10,800.00	10,000.00	8,370.00	1,880.00
Antimony	SB	N/A	0.21	0.22	0.30	0.19	0.091	0.089	0.07
Arsenic	7.5 or SB	3.0-12	2.50	2.10	2.90	5.60	3.80	2.80	2.10
Barium	300 or SB	15-600	51.20	37.80	87.70	157.00	80.10	64.30	11.90
Beryllium	.16 or SB	0.1-75	0.43	0.41	0.60	0.67	0.51	0.41	0.09
Cadmium	1 or SB	0.1-1	**1.30**	**1.10**	**1.70**	0.064	0.036	0.052	0.03
Calcium	SB	130-35000	19500.00	789.00	12800.00	10,400.00	15,300.00	**63,500.00**	**117,000.00**
Chromium	10 or SB	1.5-40	10.50	12.00	15.90	13.80	13.00	9.30	3.00
Cobalt	30 or SB	2.5-60	5.70	6.60	8.10	18.10	7.00	4.30	1.80
Copper	25 or SB	1000-50000	11.70	10.30	12.30	7.80	10.10	9.40	3.80
Iron	2000 or SB	2000-550000	12500.00	13400.00	17600.00	23,600.00	16,300.00	11,900.00	5,740.00
Lead	SB	200-500	11.50	2.80	14.10	28.70	24.60	15.60	0.13
Magnesium	SB	100-5000	**9620.00**	2480.00	**7450.00**	**6,630.00**	**8,710.00**	**33,900.00**	**54,700.00**
Manganese	SB	50-5000	397.00	300.00	417.00	1,720.00	567.00	421.00	445.00
Mercury	0.1	0.001-0.2	0.06	0.03	0.08	0.091	0.084	0.069	0.01
Nickel	13 or SB	0.5-25	15.00	16.80	20.70	10.30	11.10	8.90	1.90
Potassium	SB	8500-11000	859.00	774.00	1110.00	737.00	768.00	628.00	356.00
Selenium	2.0 or SB	0.1-3.9	**5.30**	**5.10**	**7.10**	**7.90**	**5.30**	3.60	1.60
Silver	SB	N/A	0.14	0.15	0.20	0.10	0.091	0.089	0.07
Sodium	SB	6000-8000	139.00	87.70	200.00	110.00	157.00	359.00	129.00
Thallium	SB	N/A	1.80	2.10	2.60	0.21	0.18	0.18	0.13
Vanadium	150 or SB	1-300	18.20	15.80	23.70	29.60	25.10	18.10	1.80
Zinc	20 or SB	9.0-50	**54.10**	40.20	**74.70**	**58.10**	**57.40**	**51.90**	16.20
Cyanide	N/A	N/A	NR	NR		0.15	0.20	0.17	

Table 2-1
AF-51 Analytical Results
Area 1 - Backfill

Sample No. Laboratory Sample ID # Sample Date Sample Type Matrix	TAGM No. 4046 Recommended Soil Cleanup Objectives (mg/kg)	Eastern USA Background	Clean Fill 08 80256005 02/07/2001 Grab (3000-3500 cy) Bank Run (mg/kg)	Clean Fill 09 80256006 02/07/2001 Grab (3500-4000 cy) Bank Run (mg/kg)	Clean Fill 10 80256007 02/07/2001 Grab (4000-4500 cy) Bank Run (mg/kg)	Clean Fill 11 80256008 02/07/2001 Grab (4500-5000 cy) Bank Run (mg/kg)	Clean Fill 12 80256009 02/07/2001 Grab (5000-5500 cy) Bank Run (mg/kg)	Clean Fill 13 802560010 02/07/2001 Grab (5500-6000 cy) Bank Run (mg/kg)	Clean Fill 14 80256011 02/07/2001 Grab (6500-7000 cy) Bank Run (mg/kg)	Clean Fill 15 80256012 02/07/2001 Grab (7000-7500 cy) Bank Run (mg/kg)
Metals (mg/kg)										
Aluminum	SB	33000	12,200.00	10,500.00	11,000.00	4,970.00	6,370.00	6,590.00	7,730.00	5,520.00
Antimony	SB	N/A	0.18	0.088	0.11	0.098	0.094	0.11	0.082	0.087
Arsenic	7.5 or SB	3.0-12	4.10	3.60	4.40	2.60	3.90	3.30	4.00	3.50
Barium	300 or SB	15-600	101.00	76.60	95.70	25.70	39.90	36.70	53.40	44 60
Beryllium	.16 or SB	0.1-75	0.63	0.51	0.59	0.24	0.35	0.33	0.41	0.30
Cadmium	1 or SB	0.1-1	0.053	0.035	0.045	0.039	0.037	0.039	0.033	0.035
Calcium	SB	130-35000	**9,530.00**	25,200.00	11,600.00	**92,500.00**	1,430.00	1,970.00	5,940.00	2,700.00
Chromium	10 or SB	1.5-40	16.60	13.20	14.70	8.10	8.70	8.90	10.10	7.10
Cobalt	30 or SB	2.5-60	8.10	6.30	9.60	3.10	5.50	5.40	6.00	4.60
Copper	25 or SB	1000-50000	10.30	9.40	9.80	8.20	8.20	8.00	9.10	6.10
Iron	2000 or SB	2000-550000	20,100.00	16,400.00	18,500.00	8,980.00	12,200.00	12,100.00	13,600.00	9,990.00
Lead	SB	200-500	25.10	22.40	26.90	0.49	14.40	13.60	17.90	14.30
Magnesium	SB	100-5000	**5,800.00**	**14,500.00**	**6,570.00**	**42,200.00**	2,410.00	2,650.00	**5,190.00**	2,590.00
Manganese	SB	50-5000	453.00	442.00	673.00	338.00	494.00	427.00	607.00	481.00
Mercury	0.1	0.001-0.2	0.075	0.065	0.062	0.038	0.030	0.024	0.064	0.016
Nickel	13 or SB	0.5-25	15.30	11.20	13.60	6.80	8.10	8.40	9.60	6.30
Potassium	SB	8500-11000	892.00	797.00	835.00	903.00	480.00	535.00	654.00	404.00
Selenium	2.0 or SB	0.1-3.9	**6.50**	**5.60**	**6.00**	2.70	**4.10**	**4.00**	**4.30**	3.20
Silver	SB	N/A	0.13	0.088	0.11	0.098	0.094	0.10	0.082	0.087
Sodium	SB	6000-8000	113.00	135.00	128.00	144.00	57.30	71.70	79.50	56.70
Thallium	SB	N/A	0.26	0.18	0.22	0.20	0.19	0.20	0.16	0.17
Vanadium	150 or SB	1-300	28.80	25.40	27.30	12.80	16.00	16.60	19.30	13.80
Zinc	20 or SB	9.0-50	**61.00**	**65.00**	**61.90**	**33.50**	**32.20**	32.40	**44.40**	31.50
Cyanide	N/A	N/A	0.18	0.19	0.22	0.14	0.12	0.13	0.14	0.12

APPENDIX E

CHAIN OF CUSTODY RECORDS

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Roy F Weston Inc.	PHONE 860-368-3206	COMPANY SAME	PHONE	LAB PROJECT #: 71442
NAME Eric Johansen	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME: 5 day *
CITY/ST/ZIP Glastonbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME: USACE RAPID Group AFB51 Greece NY

CLIENT PROJECT #: 20074-515-011-2000

CLIENT P.O.#:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER sediment	LAB ID	# OF CONTAINERS	VOA EPA 8260	SVOC 8270	PCB 8082	Reactivity	Corrosivity	Flash (ignitability)	Total Metals 6010/7470	Cyanide 9012	Full TCLP	Temp	COMMENTS
AFB51-00-1-1-(0-4')	9/7/00 10:30	✓	✓			✓	01	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		
AFB51-00-2-1-(0-4')	9/7/00 10:50	✓	✓			✓	02	2	↓	↓	↓	↓	↓	↓	↓	↓	↓		
AFB51-00-4-1-(0-4')	9/7/00 11:20	✓	✓			✓	03	2	↓	↓	↓	↓	↓	↓	↓	↓	↓		
AFB51-00-5-1(0-4')	9/7/00 11:45	✓	✓			✓	04	2	↓	↓	↓	↓	↓	↓	↓	↓	↓		
TB	9/6/00 09:10			✓			05	1	↓										
Temp Blank	NA / NA			✓				1									✓		
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	9/8/00 / 09:00	[signature]	9/8/00 / 09:00
2		/		/
3		/		/

ADDITIONAL REMARKS:
* Need Fax results by Friday 9-15-00 or Sooner. Contact Eric Johansen @ (860) 368-3206 with questions

COOLER TEMP: 6°C

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Roy F Weston Inc.	PHONE 860-368-3206	COMPANY Roy F. Weston	PHONE	71674
NAME Steven A O'Brien	FAX 860-368-3201	NAME	FAX	
ADDRESS 146 Eastern Boulevard		ADDRESS		TURNAROUND TIME: 48 hours per client
CITY/ST/ZIP Glastenbury CT 06033		CITY/ST/ZIP		RAS 10-17-00

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
USACE RAPID Greece NY		

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: Tcts / metals 6010	VOC 8260	TPH Rev NYS DEC	Cyanide EPA 9012	COMMENTS
Drain Sump	10/16/00 14:30		✓	✓			9	6	✓	—	—	✓	
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1		/	Luther Reynolds	10/17/00 0900		6°
2		/		/		
3		/		/		

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Roy F. Weston, Inc	PHONE 860-368-3206	COMPANY Roy F. Weston, Inc	PHONE 860-368-3206	71743
NAME Eric Johansen	FAX 860-368-3201	NAME Eric Johansen	FAX 860-368-3201	
ADDRESS 148 Eastern Blvd		ADDRESS 148 Eastern Blvd.		TURNAROUND TIME: 24 hrs.
CITY/ST/ZIP Glastonbury CT 06033		CITY/ST/ZIP Glastonbury, CT 06033		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
USACE - Air Force Plant 51	20074-515-011	

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER Air	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: TCE/DCE by OSHA M-1001	BTEX by NIOSH M-1002	Metals by NIOSH 7300& 7600	COMMENTS: Sample Volume
CQ 5970	10-19-00					✓	01	1	✓	✓	—	186,017.5 cc's Air Volume
CQ 6233	10-21-00					✓	02	1	✓	✓	—	357,058 cc's Air Volume
CQ 6232	10-20-00					✓	03	1	✓	✓	✓	292,608 cc's Air Volume
CQ 6255	10-23-00					✓	04	1	✓	✓	✓	680,061 cc's "
CQ 6256	10-23-00					✓	05	1	—	—	✓	667,732.5 cc's "
CQ 6257	10-23-00					✓	06	1	—	—	✓	106,134 cc's "
CQ 6300	10-25-00					✓	07	1	✓	✓		269,392 cc's "
CQ 6301	10-25-00					✓	08	1	—	—	✓	234,643.5 cc's "
CQ 6302	10-25-00					✓	09	1	—	—	✓	153,588 cc's "
	/											
	/											
	/											

ISF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	10/26/00 1730	[signature]	10/27/00 0900
2		/		/
3		/		/

ADDITIONAL REMARKS: Charcoal Tubes for Air + Personal Monitoring

Also Fax Results to 716-621-2227

COOLER TEMP: AMBIENT

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Ray F. Weston Inc.	PHONE 860-368-3206	COMPANY SAME	PHONE	71742
NAME Eric Johansen	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME: 24-48hr.
CITY/ST/ZIP Glastenbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME: USACE RAPID AFB Plant 51 Geneva NY

CLIENT PROJECT #: 20074-515-011

CLIENT P.O.#:

REQUESTED ANALYSES: VOA 8260; SVOC 8270; PCB 8082; Cyanide

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
AFB51-00-SD-1-2(6-8)	10/26/00 / 1:50 pm	✓	✓			✓ Sed	01	2	
AFB51-00-SD-2-2(0-12)	10/26/00 / 1:58 pm	✓	✓			✓	02	2	
AFB51-00-SD-3-2(0-12)	10/26/00 / 1:53 pm	✓	✓			✓	03	2	
AFB51-00-SD-4-2(0-12)	10/26/00 / 1:41 pm	✓	✓			✓	04	2	
AFB51-00-SD-5-2(0-12)	10/26/00 / 1:33 pm	✓	✓			✓	05	2	~~1:33 pm~~
AFB51-00-SD-6-2(0-12)	10/26/00 / 1:25 pm	✓	✓			✓	06	2	~~1:25 pm~~
AFB51-00-SD-6-2D(0-12)	10/26/00 / 1:25 pm	✓	✓			✓	07	2	~~1:25 pm~~
Temp	/			✓					
	/								
	/								
	/								
	/								

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1	[signature]	10/26/00 / 16:30	Fed ex	10/26/00 / 16:30	Fax results to the site ATTN Steve O'Brien phone (716) 621-3472 Fax (716) 621-2027	6°C
2		/	[signature]	10/27/00 / 0900		
3		/		/		

WHITE ... YELLOW ... COPY

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO			INVOICE TO		
COMPANY Roy F. Weston Inc	PHONE 716-621-3472		COMPANY Roy F. Weston Inc	PHONE 860-368-3206	LAB PROJECT #: 71824
NAME Jim Wallis / Steve O'Brian / Eric Johansen	FAX 716-621-2227		NAME Eric Johansen	FAX 860-368-3201	
ADDRESS 148 Eastern Blvd.			ADDRESS 148 Eastern Blvd.		TURNAROUND TIME: 24 hrs
CITY/ST/ZIP Glastonbury CT 06033			CITY/ST/ZIP Glastonbury, CT 06033		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
USACE-Air Force Plant 51	20074-515-011	

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER AIR	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: TCE/DCE by OSHA M-1001	REQUESTED ANALYSES: BTEX by NIOSH M-1002	COMMENTS: Sample Volume
CQ 6259	11/1/00 '					✓	01		✓	✓	691,834 cc's Air
CQ 6261	11/1/00 '					✓	02		✓	✓	646,768 cc's
CQ 6262	11/2/00 '					✓	03		✓	✓	782,385 cc's
CQ 6258	11/2/00 '					✓	04		✓	✓	199,341 cc's
CQ 6291	11/2/00 '					✓	05		✓	✓	690,272 cc's
CQ 6293	11/3/00 '					✓	06		✓	✓	573,400 cc's
CQ 6294	11/3/00 '					✓	07		✓	✓	673,620 cc's
CQ 6295	11/3/00 '					✓	08		✓	✓	659,176 cc's
CQ 6296	11/4/00 '					✓	09		✓	✓	601,704 cc's
CQ 6297	11/4/00 '					✓	10		✓	✓	596,875.5 cc's
	/										
	/										

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1		11/9/00 ' 1730		11/10/00 ' 0900	Charcoal Tubes for Air + Personal Monitoring.	AMBIENT
2		/		/		
3		/		/	☆ Also Fax Results to 716-621-2227	

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CHAIN-OF-CUSTODY RECORD

Page 1 of 2

REPORT TO		INVOICE TO		
COMPANY Roy F. Weston Inc.	PHONE 860-368-3206	COMPANY Same	PHONE	LAB PROJECT #: 72007
NAME Eric Johansen	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME: Per Ben Dodge 72hr. TAT
CITY/ST/ZIP Glastenbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
AFB Plant 51 Geneca NY	20074-515-011-5000	

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOC via 8260B	SVOC	Total metals	Pest	PCB	Cyanide	COMMENTS
AF851-00-SB-1-1(0-2)	12/7/00 16:19		✓		✓		01	2							
AF851-00-SB-1-2(0-2)	12/7/01 16:36		✓		✓		02	2							
AF851-00-SB-2-1(0-2)	12/7/01 16:45		✓		✓		03	2							
AF851-00-SB-2-2(0-2)	12/7/01 16:53		✓		✓		04	2							
AF851-00-SB-4-1(0-2)	12/7/01 17:01		✓		✓		05	2							
AF851-00-SB-4-2(0-2)	12/7/01 17:13		✓		✓		06	2							
AF851-00-SB-6-1(0-2)	12/7/01 17:20		✓		✓		07	2							
AF851-00-SB-6-2(0-2)	12/7/01 17:30		✓		✓		08	2							
AF851-00-D-6-1(0-2)	12/7/01 17:30		✓		✓		09	2							
AF851-00-D-6-1(0-2)	12/7/01 17:20		✓		✓		10	2	↓	↓	↓	↓	↓	↓	
Temp	/			✓				1							
	/														

SF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1		12/7/01 18:30		/	Analyze per QA plan As approved by Paul Sawicki	6°C
2		/		/		
3		/		/		

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Ray F. Weston Inc.	PHONE 860-368-3206	COMPANY SAME	PHONE	72007
NAME Eric Johansen	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME: Per Ben Dodge 72 hr. TAT
CITY/ST/ZIP Glastonbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
AFB Plant 51 Geneva NV	20074-515-011-5000	

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOC	SVOC	Total metals	Pest	PCB	Cyanide	COMMENTS
AFB51-00-SB-1B-1(9-11)	10/7/00 17:47		✓		✓		11	2	✓	✓	✓	✓	✓	✓	
AFB51-00-SB-1B-2(11-13)	10/7/00 18:11		✓		✓		12	2	✓	✓	✓	✓	✓	✓	
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ISF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1	[signature]	10/7/00 12:30	Fedex	/	Analyze per QA plan As revised by Paul Senecal	6°C
2		/	[signature]	10/10/00 0900		
3		/		/		

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		
COMPANY Roy F. Weston Inc.	PHONE 860-368-3206	COMPANY SAME	PHONE	LAB PROJECT #: 12020
NAME Eric Johansen	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME: 72hr.
CITY/ST/ZIP Glastonbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME: AFB Plant 51 Greece, NY

CLIENT PROJECT #: 20074-515-011-5000

CLIENT P.O.#:

REQUESTED ANALYSES: VOC 8260; SVOC 8270; Total metals 6010/7470; Pest 8082; PCB 8082; Cyanide 9012

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
AFB51-00-SB-5-1(0-2)	12/8/00 / 16:15		✓		✓		01	2	
AFB51-00-SB-5-2(0-2)	12/8/00 / 16:19		✓		✓		02	2	
AFB51-00-SB-3-1(0-2)	12/8/00 / 16:36		✓		✓		03	2	
AFB51-00-SB-5-2(0-2)	12/8/00 / 16:45		✓		✓		04	2	
AFB51-00-SB-7-1(0-2)	12/8/00 / 16:00		✓		✓		05	2	
AFB51-00-SB-7-2(0-2)	12/8/00 / 15:42		✓		✓		06	2	
AFB51-00-SB-7-3(0-2)	12/8/00 / 15:36		✓		✓		07	2	
Temp	/							1	
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	/								
	/								
	/								

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1	[signature]	12/8/00 / 18:45	Fedex	/	Analyze per QA plan as reviewed by Paul Seracal.	6 °C
2		/	[signature]	12/09/00 / 1000		
3		/		/		

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		
COMPANY Roy F. Weston Inc	PHONE 860-368-3206	COMPANY SAME	PHONE	LAB PROJECT #: 72112
NAME Eric Johnson	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME: Std.
CITY/ST/ZIP Glastenbury CT		CITY/ST/ZIP		

CLIENT PROJECT NAME: AFB Plant 51 Greece, NV

CLIENT PROJECT #: 00074-515-011-7000

CLIENT P.O.#:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: VOC 8260B	SVOC 8270C	Hold Test 8260	PCB 8081	Total metals 6010	Temperature	COMMENTS
clean fill-01	12/13/00 16:00		✓		✓		01	2	✓	✓	✓	✓	✓		
clean fill-02	12/13/00 16:35		✓		✓		02	2	✓	✓	✓	✓	✓		
clean fill-03	12/13/00 16:40		✓		✓		03	2	✓	✓	✓	✓	✓		
Temp	/			✓				1						✓	
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	12/20/00 17:00	FedEx	/
2		/	[signature]	12/21/00 0900
3		/		/

ADDITIONAL REMARKS: Samples were collected and held cool since 12/13/00 Be aware of holding time on VOC.

COOLER TEMP: 6°

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CHAIN-OF-CUSTODY RECORD

72132

REPORT TO		INVOICE TO		
COMPANY Roy F. Weston Inc	PHONE 860-368-3206	COMPANY SAME	PHONE	LAB PROJECT #: 72153
NAME Eric Johansen	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP Glastonbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME: USACE Rapid Response FB 51 Greece NY

CLIENT PROJECT #: USACE 20074-515-011-7000

CLIENT P.O.#:

REQUESTED ANALYSES: VOC 8260B; Total Metals 6010

Make New Proj

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
FB51-00-SB-1-3(0-6)	12/22 10850		✓		✓		01	2	
FB51-00-SB-1-3(6-12)	12/22 10852								
FB51-00-SB-1-3(12-18)	12/22 10855								
FB51-00-SB-1-3(18-24)	12/22 10858						* 01		
FB51-00-SB-2-3(0-6)	12/22 10:30						02		
FB51-00-SB-2-3(6-12)	12/22 10:32								
FB51-00-SB-2-3(12-18)	12/22 10:34								
FB51-00-SB-2-3(18-24)	12/22 10:36						* 07		
FB51-00-D-2-3(0-6)	12/22 10:30						* 03		
FB51-00-SB-3-3(0-6)	12/22 10826						03		
FB51-00-SB-3-3(6-12)	12/22 10829								
FB51-00-SB-3-3(12-18)	12/22 10832		✓		✓			✓	

TSR#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	12/22/09 12:30	Fedex	/
2		/		/
		/		/

ADDITIONAL REMARKS:
* Analyze only samples marked. Hold remainder pending further instruction!

COOLER TEMP:

Dec-22-2000 03:47pm From-ROY F WESTON 6603693237 T-829 P.002/004 F-424

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Roy F. Weston Inc.	PHONE 860-368-3206	COMPANY SAME	PHONE	LAB PROJECT #: 72153
NAME Eric Johansen	FAX 860-368-3201	NAME	FAX	
ADDRESS 148 Eastern Boulevard		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP Glastenbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME: USACE Rapid Response
9FB 51 Geneva, NY

CLIENT PROJECT #: USACE 20074-515-011-7000

CLIENT P.O.#:

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOC 8260B	Total metals 6010	COMMENTS
9FB51-00-SB-3-3(10-12)	12/22/ 08:34		✓		✓		* 07	2	✓	✓	
[redacted]	12/822 09:45										
9FB51-00-SB-4-3(6-8)	12/82/ 09:47										
9FB51-00-SB-4-3(12-14)	12/22/ 09:48										
9FB51-00-SB-4-3(16-18)	12/82/ 09:50						* 06 07				
9FB51-00-MW-4-3(0-4)	12/22/ 09:45						* 1007				
9FB51-00-SB-5-3(0-4)	12/31/ 15:00						04				
9FB51-00-SB-5-3(6-8)	12/31/ 15:08										
9FB51-00-SB-5-3(12-14)	12/31/ 15:10										
9FB51-00-SB-5-3(16-18)	12/31/ 15:13						* 1010				
9FB51-00-SB-6-3(0-4)	12/22/ 09:33						05				
9FB51-00-SB-6-3(6-12)	12/82/ 09:31										

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	12/22/00 12:30	FedEx	/
2		/		/
3		/		/

ADDITIONAL REMARKS:
* Analyze only samples marked. Hold remainder pending further instructions!

COOLER TEMP:

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CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Ray F. Weston. Inc.	PHONE 860-368-3206	COMPANY SAME	PHONE	72137
NAME Eric Johnsen	FAX 860-368-3201	NAME	FAX	TURNAROUND TIME:
ADDRESS 148 Eastern Boulevard		ADDRESS		
CITY/ST/ZIP Glastenbury CT 06033		CITY/ST/ZIP		

CLIENT PROJECT NAME: USACE Rapid Response AFB 51 Greece, NY

CLIENT PROJECT #: USACE 20074-515-011-7000

CLIENT P.O.#:

REQUESTED ANALYSES: VOC 02603; Total Metals 6010; Temp

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
AFB51-00-SB-6-3(10-10)	12/22 / 09:35		✓		✓		03	2	
AFB51-00-SB-6-3(18-20)	12/22 / 0926		✓		✓		04	2	
Temp	/			✓			05	1	
AFB51-00-SB-5-3(3-3½)	12/21 / 15:33		✓		✓		01	2	
AFB51-00-SB-5-3(4-4½)	12/21 / 15:44						10		
AFB51-00-SB-5-3(5-5½)	12/21 / 15:49						06 07		
AFB51-00-SB-5-3(6-6½)	12/21 / 16:10								
AFB51-00-SB-5-3(8-8½)	12/21 / 16:18						08 09		
AFB51-00-SB-5-3(9-9½)	12/21 / 16:21		✓		✓			↓	
	/						11		
	/								
	/								

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	12/22/00 12:30	FedEx	/
2		/	[signature]	12/23/00 1000
3		/		/

ADDITIONAL REMARKS: Anticipate High VOC Concentrations. Call Paul Seneca. Fax Field Screening Data.

COOLER TEMP: 6°C

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT COPY

LOZIER
LABORATORIES, INC.

696 N. Winton Rd., Rochester, NY 14609
5611 Water St., Middlesex, NY 14507
(888) 841-5227 • (716) 554-4114

COMPANY NAME	TURNAROUND TIME
Weston / USACE	☐ Standard Service ☒ Rush Service 12-24hr.
PROJECT NAME / NUMBER	Date Req.: 1/26/01
AFB Plant 51 Greece	Phone No.: (716) 621-3422
	Fax No.: (716) 621-2227

SEND REPORT TO:
Chris Kane
Roy F. Weston Inc
1 Wall Street Manchester NH 03101

SEND INVOICE TO:
Chris Kane
Roy F Weston Inc
1 Wall Street Manchester, NH 03101

P.O. #

CHAIN OF CUSTODY RECORD
Laboratory ID Number

SAMPLE ID	DATE	TIME	TYPE: Comp.	Grab	Aqueous	Soil	Other	PARAMETERS FOR ANALYSIS: VOA 8260 TCE	Metals Total Cadmium
AFB51-00-SB-1-4 (3')	1/26/01	12:10		✓		✓		✓	
AFB51-00-SB-1-4 (4')		12:12							
AFB51-00-SB-1-4 (5')		12:14							
AFB51-00-SB-1-4 (6')		12:17							
AFB51-00-SB-2-4 (3')		11:33						✓	
AFB51-00-SB-2-4 (4')		11:37						✓	
AFB51-00-SB-2-4 (5')		11:41						✓	✓
AFB51-00-SB-2-4 (6')		11:44						✓	
AFB51-00-SB-3-4 (3')		12:35						✓	
AFB51-00-SB-3-4 (4')		12:40						✓	

REMARKS: Please include all QC information Spike Results/Method Blank/Curve and HP Internal Standards Printout.
Will Fax headspace screening results to the lab.
Do not run the AFB51-00-SB-1-4 series. (Hold)
Metals analysis will be run after review of TCE results.

TOTAL CONTAINERS

CUSTODY SEAL INTACT? ☐ YES ☐ NO ☐ N/A

SHIPMENT COMPLETE? ☐ YES ☐ NO ☐ N/A

TEMPERATURE: _____ °C ☐ TS ☐ TB ☐ TM

40357 40358 40359 40360 40361 40362

MANILLA COPY

RECEIVED BY		DATE	TIME
Steven A. Ulrich		1/25/01	1430
	2.		
	Received for Laboratory by:	1/25/01	14:15

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COMPANY NAME	TURNAROUND TIME
Weston / USACE	☐ Standard Service ☒ Rush Service 12-24hr
PROJECT NAME / NUMBER	Date Req.: 1/26/01
AFB Plant 51	Phone No.: (716) 691-3472
	Fax No.: (716) 691-3227

SEND REPORT TO:
Chris Kane
Roy F. Weston Inc
1 Wall Street
Manchester NH 03101

SEND INVOICE TO:
Chris Kane
Roy F Weston Inc
1 Wall Street Manchester, NH 03101

P.O. #

CHAIN OF CUSTODY RECORD
Laboratory ID Number

SAMPLE ID	DATE	TIME	TYPE: Comp.	TYPE: Grab	Aqueous	Soil	Other	PARAMETERS FOR ANALYSIS: VOA 8260 TCE	Metals Total Cadmium
AFB51-00-SB-3-4 (5')	1/25/01	10:45		✓		✓		✓	
AFB51-00-SB-3-4 (6')		12:15						✓	
AFB51-00-SB-4-4 (3')		11:50							
AFB51-00-SB-4-4 (4')		11:53							
AFB51-00-SB-4-4 (5')		11:55							
AFB51-00-SB-4-4 (6')		11:57						✓	Authorized to Run on
AFB51-00-SB-6-4 (3')		12:01						✓	[redacted]
AFB51-00-SB-6-4 (4')		12:03						✓	
AFB51-00-SB-6-4 (5')		12:06						✓	
AFB51-00-SB-6-4 (6')		12:08		✓		✓		✓	

REMARKS: Please include all QC information Spike Results / Method Blank / Curve and HP Internal Standards Printout
Will Fax headspace screen results to the lab.
Do not run the AFB51-00-SB-4-4 series (Hold)
Metals analysis will be run after review of TCE results.

TOTAL CONTAINERS:

CUSTODY SEAL INTACT? ☐ YES ☐ NO ☐ N/A

SHIPMENT COMPLETE? ☐ YES ☐ NO ☐ N/A

TEMPERATURE: _____ °C ☐ TS ☐ TB ☐ TM

SAMPLER'S NAME:

SIGNATURE:

40455 MANILLA COPY

RELINQUISHED BY: NAME AND SIGNATURE	DATE	TIME	SAMPLES RECEIVED BY: NAME AND SIGNATURE	DATE	TIME
	1/25/01		1.	1/25/01	11:30
			2.		
			Received for Laboratory by:		

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5611 Water St., Middlesex, NY 14507
(888) 841-5227 • (716) 554-4114

COMPANY NAME	TURNAROUND TIME
Weston / USACE	☐ Standard Service ☒ Rush Service 12-24hr
PROJECT NAME / NUMBER	Date Req.: 1/26/01
AFB Plant 51	Phone No.: (716) 621-3472
	Fax No.: (716) 621-2227

SEND REPORT TO:
Chris Kane
Ray F. Weston Inc
1 Wall Street
Manchester NH 03101

SEND INVOICE TO:
Chris Kane
Ray F Weston Inc
1 Wall Street Manchester NH 03101

P.O. #

CHAIN OF CUSTODY RECORD
Laboratory ID Number

PARAMETERS FOR ANALYSIS: VOA 8260 TCE; Metals Total / Cadmium

SAMPLE ID	DATE	TIME	TYPE: Comp.	TYPE: Grab	Aqueous	Soil	Other
AFB51-00-SB-3-4 (5')	1/25/01	12:43		✓		✓	
AFB51-00-SB-3-4 (6')		12:45					
AFB51-00-SB-4-4 (3')		11:50					
AFB51-00-SB-4-4 (4')		11:53					
AFB51-00-SB-4-4 (5')		11:55					
AFB51-00-SB-4-4 (6')		11:57					
AFB51-00-SB-6-4 (3')		12:01					
AFB51-00-SB-6-4 (4')		12:03					
AFB51-00-SB-6-4 (5')		12:06					
AFB51-00-SB-6-4 (6')	↓	12:08		↓		↓	

REMARKS: Please include all QC information Spike Results / Method Blank / Curve and HP Internal Standards Printout
Will Fax headspace screeny results to the lab.
Do not run the AFB51-00-SB-4-4 series (Hold)
Metals analysis will be run after review of TCE results.

TOTAL CONTAINERS

CUSTODY SEAL INTACT? ☐ YES ☐ NO ☐ N/A

SHIPMENT COMPLETE? ☐ YES ☐ NO ☐ N/A

TEMPERATURE: _____ °C ☐ TS ☐ TB ☐ TM

RECEIVED BY

	DATE	TIME
1. Steven A. Ware	1/26/01	1450
2.		
Received for Laboratory by: K Hunter	1/26/01	1715

40363 40364 40365 40366 40367 40368 MANILLA COPY

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Page 1 of 1

LOZIER
LABORATORIES, INC.

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5611 Water St., Middlesex, NY 14507
(888) 841-5227 • (716) 554-4114

COMPANY NAME	TURNAROUND TIME
Weston / USACE	☐ Standard Service ☑ Rush Service 10 days
PROJECT NAME / NUMBER	Date Req.: 1/26/01
Art Plant 51 Cell C	Phone No.: (716) 621-7172
	Fax No.: (716) 621-2327

SEND REPORT TO:
Chris Kane
Roy F. Weston Inc.
1 Wall Street
Manchester, NH 03101

SEND INVOICE TO:
Chris Kane
Roy F. Weston, Inc.
1 Wall Street Manchester, NH 03101

P.O. #

CHAIN OF CUSTODY RECORD
Laboratory ID Number

PARAMETERS FOR ANALYSIS

SAMPLE ID	DATE	TIME	TYPE: Comp.	TYPE: Grab	Aqueous	Soil	Other	SVOC VOA								
Cell-1 Liquid	1/25/01	14:30		✓	✓			✓								

REMARKS: This may be free product "Caution"
Please include all QC information Spike Results/Method Blank/ curve and HP Internal Standards Print out.

TOTAL CONTAINERS

CUSTODY SEAL INTACT? ☐ YES ☐ NO ☐ N/A

SHIPMENT COMPLETE? ☐ YES ☐ NO ☐ N/A

TEMPERATURE: _____ °C ☐ TS ☐ TB ☐ TM

40356 MANILLA COPY

SIGNATURE:

RELENQUISHED BY

NAME AND SIGNATURE	DATE	TIME
Steven C Brian	1/25/01	14:45

SAMPLES RECEIVED BY

NAME AND SIGNATURE	DATE	TIME
1.	1/25/01	1445
2.		
Received for Laboratory by:	1/25	14:10

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MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Ray F. Weston Inc.	PHONE (716) 621-3472	COMPANY Ray F. Weston Inc.	PHONE (603) 656-5428	LAB PROJECT #:
NAME Chris Icane	FAX (716) 621-2227	NAME Chris Icane	FAX (603) 656-5501	80191
ADDRESS 4850 Dewey Ave		ADDRESS 1 Wall Street 1		TURNAROUND TIME:
CITY/ST/ZIP Greece, NY 14615		CITY/ST/ZIP Manchester NH 03101		

CLIENT PROJECT NAME: AFB51 Greece, NY

CLIENT PROJECT #: 20074-515-011-

CLIENT P.O.#:

REQUESTED ANALYSES: OSHA method 1007 TCE/DCE/VC

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER Air	LAB ID	# OF CONTAINERS	OSHA method 1007 TCE/DCE/VC	COMMENTS
CT1-1	1-30-01 /					✓	01	1	✓	Volume = 93,760.05 cc's
CT1-2	/					✓	02			1
CT2-1	/					✓	03			Volume = 43,548 cc's
CT2-2	/					✓	04			1
CT3-1	/					✓	05			Volume = 58,831.5 cc's
CT3-2	/					✓	06			1
	/									
	/									
	/									
	/									
	/									
	/									

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1		1/30/01 1800	FedEx	/		AMBIENT
2		/		1/31/01 0900		
3		/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

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Warwick, Rhode Island 02886-1755
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email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY ROY F. WESTON	PHONE 716-621-3677	COMPANY ROY F. WESTON, INC.	PHONE 603-656-5400 ext 228	80256
NAME BILL SCHMITT	FAX 716-621-2227	NAME CHRIS KANE	FAX 603-656-5501	
ADDRESS 500 CENTER PLACE DRIVE		ADDRESS 1 WALL ST		TURNAROUND TIME: 5-DAY
CITY/ST/ZIP ROCHESTER, NY 14615		CITY/ST/ZIP MANCHESTER, NH 03101		

CLIENT PROJECT NAME: AFB PLANT 51 GREECE, NY

CLIENT PROJECT #: 20074-515-011-9000

CLIENT P.O.#:

REQUESTED ANALYSES: VOC 8260B; SVOC 8270C; PEST 8081; PCB 8082; TOTAL METALS (CYANIDE)

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS * MITKEM ID
CLEAN FILL-04	2/7/01 14:36		✓		✓		04	2	01
CLEAN FILL-05	2/7/01 14:39		✓		✓		05	2	02
CLEAN FILL-06	2/7/01 14:40		✓		✓		06	2	03
CLEAN FILL-07	2/7/01 14:41		✓		✓		07	2	04
CLEAN FILL-08	2/7/01 14:57		✓		✓		08	2	05
CLEAN FILL-09	2/7/01 14:54		✓		✓		09	2	06
CLEAN FILL-10	2/7/01 14:59		✓		✓		10	2	07
CLEAN FILL-11	2/7/01 15:00		✓		✓		11	2	08
CLEAN FILL-12	2/7/01 15:07		✓		✓		12	2	09
CLEAN FILL-13	2/7/01 15:10		✓		✓		13	2	10
CLEAN FILL-14	2/7/01 15:15		✓		✓		14	2	11
CLEAN FILL-15	2/7/01 15:19		✓		✓		15	2	12

TSR#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	Edwin J. Boynton	2/7/01 1650	Ida Godlewski	2/8/01 9:00
2		/		/
3		/		/

ADDITIONAL REMARKS: SAMPLES WERE COLLECTED AND HELD COOL SINCE 2/07/01.
*INCLUDE CYANIDE ANALYSES WITH METALS

COOLER TEMP: 4°C

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY ROY F. WESTON, INC.	PHONE 716-621-3472	COMPANY ROY F. WESTON, INC.	PHONE 603-656-5428	80256
NAME BILL SCHMITT	FAX 716-621-2227	NAME CHRIS KANE	FAX 603-656-5501	
ADDRESS 500 CENTER PLACE DRIVE		ADDRESS 1 WALL ST.		TURNAROUND TIME: 5-DAY
CITY/ST/ZIP ROCHESTER, NY 14615		CITY/ST/ZIP MANCHESTER, NH 03101		

CLIENT PROJECT NAME: AFB PLANT 51 GREELE, NY

CLIENT PROJECT #: 20074-515-011-7000

CLIENT P.O.#:

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOC 8260B	SVOC 8270C	PEST 8081	PCB 8082	TOTAL METALS 6010 (+ CYANIDE)	TEMPERATURE BLANK	COMMENTS
CLEAN FILL-16	2/7/01 15:20		✓		✓		16	2	✓	✓	✓	✓	✓		13
~~CLEAN FILL-17~~	~~2/7/01 16:11~~		✓		✓		17	2	✓	✓	✓	✓	✓		
TEMP BLANK	2/7/01			✓				1	(✓)	✓	✓	✓	✓	✓	
	/														
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	Edwin J Benton	2/7/01 1650	Stan Laudolske	2/8/01 9:10
2.		/		/
3		/		/

ADDITIONAL REMARKS:
SAMPLES WERE COLLECTED AND HELD COOL SINCE 2/07/01
*INCLUDE CYANIDE ANALYSES WITH METALS

COOLER TEMP: 4°

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY ROY F. WESTON, INC	PHONE 603-656-5428	COMPANY SAME —	PHONE "	LAB PROJECT #: 80267
NAME CHRIS KANE	FAX 603-656-5501	NAME	FAX	
ADDRESS 1 WALL ST.		ADDRESS		TURNAROUND TIME: 3-DAY
CITY/ST/ZIP MANCHESTER, NH 13101		CITY/ST/ZIP		

CLIENT PROJECT NAME: AFB PLANT 51 GREECE, NY

CLIENT PROJECT #:

CLIENT P.O.#:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOC 8260 B	SVOC 8270 C	PEST 8081	PCB 8082	TOTAL METALS 6010 (* CYANIDE)	TEMPERATURE	COMMENTS
CLEAN FILL-17	2/8/01 / 1300		✓		✓	01	17	2	✓	✓	✓	✓	✓		
CLEAN FILL-18	2/8/01 / 1300		✓		✓	02	18	2	✓	✓	✓	✓	✓		
TEMP BLANK	2/8/01 /			✓				1						✓	
	/														
	/														
	/														
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	/														

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	JIM WALLIS	2/8/01 / 1600		2/9/01 0900
2		/		/
3		/		/

ADDITIONAL REMARKS:
SAMPLES WERE COLLECTED AND HELD COOL SINCE 2/08/01
* INCLUDE CYANIDE ANALYSES WITH METALS

COOLER TEMP: 4°C

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Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		
COMPANY Roy F. Weston Inc.	PHONE 603-656-5426	COMPANY Roy F. Weston Inc.	PHONE 603-656-5426	LAB PROJECT #: 80300
NAME Chris Kane	FAX 603-656-5501	NAME Chris Kane	FAX 603-656-5501	
ADDRESS 1 Wall Street		ADDRESS 1 Wall Street		TURNAROUND TIME:
CITY/ST/ZIP Manchester NH 03101		CITY/ST/ZIP Manchester NH 03101		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
AFB51 – Greece, NY	20014-515-011	

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: VOC 8260	SVOC 8270	Total Metals w/o Hg/Mg	PCB 8082	Cyanide 9012	COMMENTS
AFB51-01-SB-1-S(0-2')	2/13/01 15:30		✓		✓		01	2	✓	✓	✓	✓	✓	
AFB51-01-SB-2-S(0-2')	2/13/01 15:40						02							
AFB51-01-SB-3-S(0-2')	2/13/01 15:45						03							
AFB51-01-SB-4-S(0-2')	2/13/01 16:15						04							
AFB51-01-SB-5-S(0-2')	2/13/01 16:30						05							
AFB51-01-SB-MS-1(0-2')	2/13/01 16:50						06							
AFB51-01-SB-SS-1(0-2')	2/13/01 16:45						07							
AFB51-01-SB-ES-1(0-2')	2/13/01 15:50						08							
AFB51-01-SB-WS-1(0-2')	2/13/01 16:50						09							
AFB51-01-SB-M-S(0-2')	2/13/01 15:50						10							
AFB51-01-SB-D-S(0-2')	2/13/01 16:50		✓		✓		11	✓	✓	✓	✓	✓	✓	

SF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	2/13/01 18:40	Fedex	/
2		/	[signature]	2/14/01 0800
3		/		/

ADDITIONAL REMARKS:
Analyze Per QA Plan
As reviewed by
Paul Seracel.
Temp Blank

COOLER TEMP: 6°

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Roy F. Weston Inc.	PHONE 603-656-5428	COMPANY Roy F. Weston Inc.	PHONE 603-656-5428	80312
NAME Chris Kane	FAX 603-656-5501	NAME Chris Kane	FAX 603-656-5501	
ADDRESS 1 Wall Street		ADDRESS 1 Wall Street		TURNAROUND TIME: 5 days
CITY/ST/ZIP Manchester NH 03101		CITY/ST/ZIP Manchester NH 03101		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
AFB51 Greece, NY	20014-515-011	

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOC 8260	SVOC 8270	Total metals	Cyanide	PCB 8082	Pest 8082	COMMENTS
AFB51-01-GW-1(grab)	2/14/01		✓	✓			01	7	✓	✓	✓	✓	✓	✓	
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1	[signature]	2/14/01 1830	[signature]	2/15/01 0900	Analyze per QA plan as approved by Paul Sweet	6°C
2		/		/	Temp Blank.	
3		/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY