



**DEPARTMENT OF THE AIR FORCE
AIR FORCE BASE CONVERSION AGENCY**

January 26, 2001

MEMORANDUM FOR NYS DEPT OF ENVIRONMENTAL CONSERVATION

ATTN: MR. ART STEMP
Office of Environmental Quality, Region V
Route 86, PO Box 296
Ray Brook NY 12977-0296

FROM: AFBCA/DA Plattsburgh
22 US Oval Suite 2200
Plattsburgh NY 12903

SUBJECT: Aircraft Refueling System Construction Certification Report

Attached for your information, review, and comment is the May 2000 Final Construction Certification Report for Closure of the Aircraft Refueling System at Plattsburgh AFB (4 Volumes: 1) Bulk Fuel Storage Area [IRP Fuel Site ST-012], 2) Fuel Transfer Pipelines, 3) Flightline Pumphouses, and 4) Flightline Lateral Pipelines).

Informal draft closure reports for the various components of the Aircraft Refueling System were provided to you in 1996 and 1997, immediately after the actual closure activities. A consolidated Draft Construction Certification Report was provided in December 1997.

We have previously reviewed, with you, the closure report data for Volume 1, the Bulk Fuel Storage Area (IRP Fuel Site FT-012), and have implemented groundwater monitoring activities there per your June 17, 1998, letter.

Request a joint review, at your convenience, to evaluate the remainder of the aircraft refueling report to identify what additional actions (if any) are required to close out these petroleum sites.

Our POC is Dave Farnsworth, (518) 563-2871, extension 15.

MICHAEL D. SOREL, PE
Site Manager/BRAC Environmental Coordinator

Attachment:
Construction Certification Report (4 Vols) (1 cy)

cc:
NYSDEC (Mr. James Quinn) wo Atch

File 1 23-A-2

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Subject: Monthly Status of Documents and Planned Field Activities
Attachment: DOC_STAT.DOC, SAMPSTAT.DOC, BEYOND.RTF
Date: 1/10/01 2:08 PM

Bob/Jim:

The monthly Status of Documents and the Planned Field Activities are attached.

dave

**STATUS OF PAFB ENVIRONMENTAL DOCUMENTS SENT
FOR REGULATORY ACTION/REVIEW**

Document	Date Sent*	Comment
Well Abandonment & Repair Plan	2/26/99	Response to regulatory letters (5/5/99 & 5/10/99) in progress, NYSDEC comments received 7/12/99
Glycol Sampling Results	10/13/99	
SS-018/028 Draft Groundwater Monitoring Plan	11/3/00	Complete , comments received; revised monitoring plan in progress
SS-017 Technical Memorandum – Contaminants of Concern	11/28/00	Complete , comments received
SS-033 Draft Final Proposed Plan	12/6/00	NYSDEC informal concurrence received
SS-033 Draft ROD	12/15/00	Requested comments NLT 1/17/01

*Date sent is the date of the cover/transmittal letter.

As of 10 January 01

DOCUMENTS TO BE SENT OUT	
Document	Comment
• Response to Comments to the Washrack (Area 2891) and B/2890 Draft Removal Actions Report	To be sent 10 Jan. 01
• SS-033 Final Proposed Plan	To be sent 11 Jan. 01
• FT-002 (S) Draft Final ROD	To be sent 17 Jan. 01
• Draft SEBS/FOST – Parcel K-2	To be sent 17 Jan. 01
• FT-002 (GW) Draft Final Revisions to RI/FS and Resp. to Reg. Comments	Pending resolution of NYSDEC issues, informal Resp. to Comments sent 12/21/00
• FT-002 (GW) Draft Final Proposed Plan and Draft ROD	Pending resolution of NYSDEC RI/FS issues, (internal DF PP and Resp. to Comments, and internal Draft ROD, prepared)
• SS-016 Sampling/Test Results and Revised FS Scope of Work	To be sent 19 Jan. 01
• SS-017 DF Site Eval. & FS Report	To be sent 26 Jan. 01
• Draft Final Sup. Eval. to the EBS (Misc. EBS Factors Report)	To be sent 26 Jan. 01
• SS-004 Response to Regulatory Comments (to Draft Final RI)	To be sent late Jan./ early Feb. 01
• SS-017 Draft Proposed Plan	To be sent 2 Feb.
• SS-018/028 Revised GW Monitoring Plan	To be sent early Feb. 01
• Draft SEBS/FOST – Parcel A2.8, Communications Annex (Off-base site)	To be sent early Feb. 01
• SS-033 Draft Final ROD	To be sent 15 Feb. 01 (pending Final PP)
• FT-002 (S) Final ROD	To be sent mid Feb. 01 (pending DF ROD coord.)
• Response to NYSDEC FT-002 Effluent Criteria Determination	To be sent mid Feb. 01
• SS-027 Response to USEPA Comments to Draft Final SI Report	To be sent mid Feb. 01
• AOC 2612 Workplan	To be sent late Feb. 01
• Washrack & B/2890 Equip. Removal Report	To be sent late Feb. 01 (pending resp. to comments)
• Draft SEBS/FOST – Parcel A2.2 – New Base Housing (5000 Area)	To be sent late Feb. 01
• Draft SEBS/FOST – Historic Housing	To be sent late Feb. 01
• Response to regulatory letters (5/5/99 & 5/10/99) – Well Management Plan	To be sent (date TBD)

As of 10 January 01

NOTE: Processing of FOSLs and FOSTs will continue to be based on 10/3 working days for regulatory review of Draft/Draft Final FOSLs, and 30/3 working days for FOSTs.

Document Review Priority

(as of 10 January 2001)

Pri	Document	Remarks
1	SS-033 Draft Final Proposed Plan	Awaiting concurrence letters
2	SS-033 Draft ROD	Requested comments NLT 1/17/00
3	FT-002 (S) Draft Final ROD	To be sent
4	Response to Comments to the Washrack (Area 2891) and B/2890 Draft Removal Actions Report	To be sent
5	Draft SEBS/FOST – Parcel K-2	To be sent
6	FT-002 (GW) Draft Final Revisions to RI/FS	To be sent (pending resolution of NYSDEC issues)
7	FT-002 (GW) Draft Final PP/ Draft ROD	To be sent (pending resolution of RI/FS)
8	SS-016 Sampling/Test Results and FS Revised Scope of Work	To be sent
9	SS-017 DF Site Eval. & FS Report	To be sent
10	SS-004 Resp. to DF RI Comments	To be sent
11	SS-017 Draft Proposed Plan	To be sent
12	SS-018/028 Revised GW Monitoring Plan	To be sent
13	Draft SEBS/FOST – Parcel A2.8, Communications Annex	To be sent
14	Draft Final Sup. Eval to the EBS (Misc. EBS Factors Report)	To be sent
15	SS-033 Draft Final ROD	To be sent (pending public comment to Final PP)
16	FT-002 (S) Final ROD	To be sent (pending Reg. coord. of DF ROD)
17	Response to NYSDEC FT-002 Effluent Criteria Determination	To be sent
18	SS-027 Response to USEPA Comments to Draft Final SI Report	To be sent
19	AOC 2612 Workplan	To be sent
20	Washrack & B/2890 Equip. Removal Report	To be sent (pending response to comments)
21	Draft FOST – Parcel A2.2, New Base Housing (5000 Area)	To be sent
22	Draft SEBS/FOST – Historic Housing	To be sent
23	Glycol Sampling Results	
24	Well Abandonment & Repair Plan	Awaiting USEPA Comment

Planned Sampling Events and Other Field Activities Plattsburgh AFB

(as of 1/10/00)

LOCATIONS	ACTIVITY	EXPECTED DATE(S)
FT-002 (S)	Treatment Plant biweekly effluent	1/23/01, 2/6/01 & 2/20/01
	BV monthly performance monitoring	1/19/01 & 2/16/01
	BV monthly routine process monitoring	1/18/01 & 2/15/01
	SVE monthly air monitoring	1/18/01 & 2/22/01
	SVE monthly routine process monitoring	1/18/01 & 2/15/01
SS-013	Soil removal:	Prelim. conf. sampling results, limited additional soil removal in progress
	Sup. RI field work	Complete
SS-016 Treatment System	Monthly air monitoring	1/18/01 & 2/22/01
	Monthly influent/effluent samples	1/16/01 & 2/14/01
	Monthly sampling @ MW-16-004	1/16/01 & 2/14/01
SS-017	Performance monitoring	1/19/01 & 2/16/01
	Monthly soil gas SP-1 south shed	1/18/01 & 2/22/01
SS-018/028	Routine Groundwater and Seep Sampling	Pending Reg. Review of Revised Sampling Plan
OTH-3505-1/2	Solid Waste Debris Landfill Excavation	-1: Awaiting confirmatory sampling results, -2: conf sampling to be done. All work on hold until spring.

NOTE: (1) All sampling, except SS-013 Soil Removal/Confirmatory Sampling and OTH-3505-1/2 (being done by Versar Corp.) to be done by URS Consultants. (2) Performance Monitoring: O₂, CO₂, TVH, CH₄ (w/ system off); Routine Process Monitoring: Temperature, Pressure (w/ system on), Depth to Water (w/ system off).



**OHM Remediation
Services Corp.**

A Subsidiary of OHM Corporation

VOLUME 1

FINAL CONSTRUCTION CERTIFICATION REPORT

***CLOSURE OF THE BULK FUEL STORAGE AREA
AT THE AIRCRAFT REFUEL SYSTEM
PLATTSBURGH AIR FORCE BASE
PLATTSBURGH, NEW YORK***

CONTRACT NO. F41624-94-D-8106

DELIVERY ORDER NO. 0003

CDRL A030

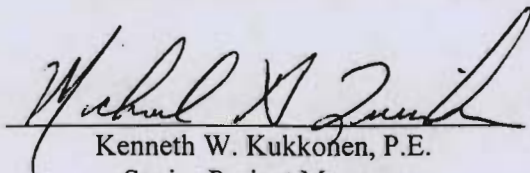
DOCUMENT CONTROL NO. D003102

Submitted to:

Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas

Submitted by:

OHM Remediation Services Corp.
11560 Great Oaks Way, Suite 500
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 for
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Senior Project Manager

May 2, 2000

Revision 00

OHM Project No. 17257_BFSA

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LIST OF ACRONYMS

ACM	asbestos-containing material
AFBCA	Air Force Base Conversion Agency
AFCEE	Air Force Center for Environmental Excellence
ARS	Aircraft Refuel System
AST	aboveground storage tank
AVGAS	aviation fuel
BFSA	Bulk Fuel Storage Area
BTEX	benzene, toluene, ethylbenzene, and xylene
CDRL	Contract Deliverable Requirement List
cPAH	carcinogenic Polynuclear Aromatic Hydrocarbon
CQAR	Chemical Quality Assurance Report
CQP	Construction Quality Plan
CTM	CTM Analytical Laboratories
DO	Delivery Order
ECP	Environmental Cleanup Plan
ELCD	Electrolytic Conductivity Detector
EPA	United States Environmental Protection Agency
ESAP	Environmental Sampling and Analysis Plan
HASP	Health and Safety Plan
JP-4	jet fuel
MDL	Method Detection Limit
MTBE	methyl tertiary butyl ether
µg/g	micrograms per gram
µg/L	micrograms per liter
ng/g	nanograms per gram
NYSDEC	New York State Department of Environmental Conservation
OHM	OHM Remediation Services Corp.
OWS	Oil / Water Separator
PAFB	Plattsburgh Air Force Base
PAH	polynuclear aromatic hydrocarbon

Parsons ES	Parsons Engineering Science, Incorporated
PCBs	Polychlorinated Biphenyls
PID	photoionization detector
ppm	parts per million
PQL	Practical Quantitation Limit
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance/quality control
QC	quality control
SFE	Supercritical Fluid Extraction
SOP	Standard Operating Procedure
SPE	Solid Phase extraction
STARS	Spill Technology and Remediation Series
SVOC	semi-volatile organic compound
TAGM	Technical and Administrative Guidance Memorandum
TCE	trichloroethylene
TCLP	Toxicity Characteristic Leachate Procedure
TOGS	Technical and Operational Guidance Series
United	United Oil Recovery, Inc.
UST	underground storage tank
VOC	volatile organic compound

EXECUTIVE SUMMARY

OHM Remediation Services Corp. (OHM) was contracted by the Air Force Center for Environmental Excellence (AFCEE) to conduct removal actions to achieve closure of the Aircraft Refuel System (ARS) at Plattsburgh Air Force Base (PAFB). The following volume certifies that removal actions conducted by OHM at the ARS Bulk Fuel Storage Area (BFSA) at PAFB were completed in accordance with the project-specific work plans and appropriate New York State Department of Environmental Conservation (NYSDEC) guidance documents.

The BFSA originally consisted of 1.26 million-gallon aboveground storage tanks (ASTs) 2075 and 2077, 0.84 million-gallon AST 2073, Pumphouse Building 2069, a truck fill stand, a railroad offload area, above- and belowground piping, and oil/water separators (OWSs) 2068 and 2073. Each AST was surrounded by concrete-surfaced earthen berms forming a secondary containment area. The three ASTs were installed on concrete foundation pads, and compacted bentonite clay floored each secondary containment area.

Both removal and assessment activities were conducted in the BFSA. Included as part of the remediation of the BFSA was the demolition and removal of the pumphouse, three ASTs and two OWSs. Removal actions at the BFSA commenced on February 23, 1996, with draining, pigging, and cleaning of the feeder pipelines leading from the ASTs to the pumphouse. The pipeline, coated with an asbestos-containing material (ACM), was later removed and disposed of at a local landfill. The pumphouse and ASTs were removed in June, and the OWSs were removed in August 1996. As part of the demolition of the pumphouse, salvageable items such as pumps, filters, and scrap metal, were consolidated. The steel ASTs were cleaned and then cut up for recycling, and the pumphouse and OWS debris were taken to a landfill for disposal. Approximately 2,120 cubic yards of soil were removed from the OWS and feeder pipeline excavations and transported to a central soil staging area on Base for subsequent bioremediation via landfarming.

Following removal of the OWSs, confirmatory samples were collected from the excavations and analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs) to determine if these constituents remained in excess of NYSDEC guidance values. Subsurface soil and groundwater samples were also collected from the BFSA using Geoprobe[®] to assess concentrations of targeted VOCs and PAHs. Sample results indicate that concentrations of some targeted constituents remained in the area of the Port Douglas OWS and at several Geoprobe[®] locations in the BFSA.

Additional assessment activities included soil sampling for lead to determine if repainting of the ASTs had impacted surrounding soils, and sampling of existing area monitoring wells for petroleum constituents.

All excavations were backfilled with imported clean fill material, which had been approved for use based on the results of analytical testing performed on the material (refer to Appendix E). All excavated and disturbed areas were seeded upon completion of the backfill activities.

1.0 INTRODUCTION

OHM Remediation Services Corp. (OHM) was contracted by the Air Force Center for Environmental Excellence (AFCEE) to conduct removal actions to achieve closure of the Aircraft Refuel System (ARS) at Plattsburgh Air Force Base (PAFB). The work was performed under AFCEE Contract No. F41624-94-D-8106, Delivery Order (DO) 0003 and conducted in accordance with the project-specific work plans and New York State Department of Environmental Conservation (NYSDEC) guidance documents referenced in Section 1.5. OHM teamed with Parsons Engineering Science (Parsons ES) to perform the work under this DO. This technical report is presented in four volumes. Each volume describes removal actions conducted for each of the four main components of the ARS. This volume describes and documents removal work conducted at the Bulk Fuel Storage Area (BFSA).

1.1 PROJECT BACKGROUND

1.1.1 General

PAFB is located on the western shore of Lake Champlain in Plattsburgh, New York. The base is divided into two sections (commonly referred to as the "new base" and the "old base") by U.S. Route 9 (Figure 1.1). The U.S. Air Force's 380th Bomb Wing and, later, the 380th Refueling Group operated out of PAFB. The Base and ARS were shut down in 1995.

1.1.2 Aircraft Refuel System Background

The ARS consisted of fuel storage, transportation, pumping, and distribution components. Fuel was stored in the BFSA, transmitted to the refueling apron (the Ramp) through belowground pipelines, temporarily stored in underground storage tanks (USTs), and then transmitted through lateral pipelines from pumphouses to refueling ports installed in the Ramp (Figure 1-2). The following describes each of these components:

- Bulk Fuel Storage Area - The BFSA consisted of two 1.26 million-gallon aboveground storage tanks (ASTs) (2075 and 2077), a 0.84 million-gallon AST (2073), a pumphouse, a truck fill stand, a railroad offload area, above- and belowground piping, and two oil/water separators (OWSs). Each of the ASTs was surrounded by concrete-surfaced earthen berms forming a secondary containment area. All of the ASTs were installed on concrete foundation pads, and compacted bentonite clay floored each secondary containment area.
- Product Transmission Pipelines - Fuel was delivered to the BFSA via railroad car, and from Port Douglas through a privately owned and operated pipeline. This pipeline was cleaned and pressurized with nitrogen in 1995 independently of this project. Fuel was also transmitted to the BFSA from an off-Base, lakeshore fuel terminal via two 10-inch diameter below ground pipelines. These 10-inch lines had previously been closed in place with grout. Fuel was transmitted from the BFSA to the ARS pumphouses via two 8-inch diameter belowground pipelines. These two 8-inch pipelines carried jet fuel (JP-4) and aviation fuel (AVGAS). The fuel distribution system supplying the ARS pumphouses ran parallel to the flightline and included feeder and recirculation lines of various diameters (e.g. 3-inch, 6-inch, 8-inch, and 10-inch).

- Pumphouses - Eight pumphouses (Buildings 3220, 3230, 3240, 3250, 3260, 3270, 3280, and 3285) were installed along the west edge of the Ramp area. Each of these pumphouses was equipped with six 50,000-gallon USTs and one 2,000-gallon UST, except for Building 3250 which had only two 50,000-gallon USTs and one 2,000-gallon UST, for a total of forty-four 50,000-gallon USTs and eight 2,000-gallon USTs. Transfer valve pits were used to control fuel flow to the laterals located beneath the flight line Ramp. Anode beds, consisting of carbon filled rods, were used to provide cathodic protection to the pumphouse USTs and underground piping.

Pumphouse #3 (Building 3240) was destroyed by fire circa 1968, but the tanks continued to be used for several years. Having been inactivated several years earlier, closure/removal was performed on the following USTs in 1993/1994:

- The six 50,000-gallon USTs at Building 3240 were completely removed;
- All 2,000-gallon USTs, except at Building 3270, were removed;
- The 50,000-gallon USTs at Buildings 3250, 3270, and 3285 were closed in place by cleaning and removing the accessible portions of the tanks, and filling the remainder under their respective pumphouses with clean backfill.
- Lateral Pipelines - The lateral pipelines installed alongside and beneath the Ramp were supplied with JP-4 and AVGAS from the pumphouses. A total of 22 pipelines supplied JP-4 to 176 flush-mounted refueling ports installed in the Ramp. Eight of the 22 lateral pipelines were dual pipelines, which also supplied AVGAS to 48 refueling ports.

1.2 PROJECT OBJECTIVES

The objective of the removal actions at the ARS was site closure. The specific objectives of the work conducted at the BFSa were as follows:

- Demolish and remove the pumphouse (2069) and associated equipment;
- Remove three ASTs and two OWSs;
- Draining, pigging, rinsing, and removing the pipelines within the BFSa;
- Removal and disposal of concrete dikes and tank bottoms;
- Conduct subsurface soil sampling and groundwater sampling using Geoprobe® to assess residual concentrations of petroleum hydrocarbons; and
- Collect and analyze surface and subsurface soil samples to assess whether past AST repainting activities had contaminated the surrounding soil with lead.

1.3 PROJECT ORGANIZATION AND RESPONSIBILITIES

OHM was the prime contractor responsible for providing all manpower, equipment, tools and supplies to complete closure activities at the BFSa. OHM maintained a full-time onsite staff of

management and remediation personnel for the duration of the project. OHM also mobilized and operated an on-site analytical laboratory to support closure activities.

Parsons ES provided oversight to ensure that removal actions were conducted in accordance with the project-specific work plans and guidance documents. Parsons ES personnel were present during all phases of the remediation.

Subcontractors were used for analytical services and for transportation and disposal of wastes. The three New York State subcontract laboratories used to analyze samples collected from the BFSa were Adirondack Environmental Services located in Albany, Friend Laboratory located in Waverly, and CTM Analytical Laboratories located in Latham. Consolidated Environmental Options, Inc., Carter Steel, and Northern Sanitation were the subcontractors used to transport waste materials generated during the BFSa removal activities.

1.4 REPORT ORGANIZATION

This report is Volume 1 of a four-volume document supporting closure of the ARS at PAFB. This volume is organized into four sections with four appendices. Section 1.0 contains the introduction, Section 2.0 provides a detailed summary of closure activities at the BFSa, Section 3.0 presents analytical results from the soil and groundwater sampling events, and Section 4.0 contains the signed closure certification. The appendices contain extensive documentary material and information. Each of the other three volumes is similar in organization and documents closure activities conducted at the other major sections of the ARS as follows:

- Volume 2 documents removal actions associated with closure of the 8- and 10-inch product transmission pipelines;
- Volume 3 documents removal action associated with closure of the flight line pumphouses; and
- Volume 4 documents investigative actions associated with closure of the lateral pipelines under the Ramp.

1.5 REFERENCES

OHM used the following references for preparation of this report and the removal actions described herein:

- Fisher, D. W. 1968. Geology of the Plattsburgh and Rouse=s Point, New York - Vermont Quadrangles: New York State Museum and Science Service, Map and Chart Series Number 10. Albany: New York State Museum.
- NYSDEC, August 1992. Spill Technology and Remediation Series (STARS) Memo #1, Petroleum-Contaminated Soil Guidance Policy.
- NYSDEC, October 1993. Technical Operational Guidance Series (TOGS) 1.1.1, NYSDEC Ambient Water Quality Standards and Guidance Values.
- NYSDEC, January 1994. Technical and Administrative Guidance Memo (TAGM) HWR-94-4046, NYSDEC Soil Cleanup Objectives and Cleanup Levels.

- OHM Remediation Services Corp., January 1995. OHM Nationwide Environmental Sampling and Analysis Plan for AFCEE. (Contract No. F41624-94-D-8106, Delivery Order 001).
- OHM Remediation Services Corp., January 1996a. Final Construction Quality Plan for Remedial Actions at Fire Training Area 2, Spill Sites 10 and 17, Old and New Small Arms Ranges, and Aircraft Refuel System, Plattsburgh Air Force Base, Plattsburgh, New York, Revision 01. (Contract No. F41624-94-D-8106, Delivery Order 003, CDRL A003, Document Control No. D003035). (CQP)
- OHM Remediation Services Corp., January 1996b. Final Site-Specific Environmental Health and Safety Plan for Remedial Actions at Fire Training Area 2, Spill Sites 10 and 17, Old and New Small Arms Ranges, and Aircraft Refuel System, Plattsburgh Air Force Base, Plattsburgh, New York, Revision 01. (Contract No. F41624-94-D-8106, Delivery Order 003, CDRL A001, Document Control No. D003002). (HASP)
- OHM Remediation Services Corp., January 1996c. Final Environmental Cleanup Plan for Remedial Actions at the Aircraft Refuel System, Plattsburgh Air Force Base, Plattsburgh, New York, Revision 01. (Contract No. F41624-94-D-8106, Delivery Order 003, CDRL A029, Document Control No. D003033). (ECP)
- OHM Remediation Services Corp., January 1996d. Final Environmental Sampling and Analysis Plan for Remedial Actions at Fire Training Area 2, Spill Sites 10 and 17, Old and New Small Arms Ranges, and Aircraft Refuel System Plattsburgh Air Force Base, Plattsburgh, New York, Revision 01. (Contract No. F41624-94-D-8106, Delivery Order 003, CDRL A002, Document Control No. D003029). (ESAP)
- OHM Remediation Services Corp., January 1996e. Final Site-Specific Quality Assurance Project Plan for Remedial Actions at Fire Training Area 2, Spill Sites 10 and 17, Old and New Small Arms Ranges, and Aircraft Refuel Systems, Plattsburgh Air Force Base, Plattsburgh, New York, Revision 01. (Contract No. F41624-94-D-8106, Delivery Order 003, CDRL A002, Document Control No. D003030). (QAPP)
- OHM Remediation Services Corp., March 1996f. Final Work Plan for Pipeline Abandonment and Removal Addendum to the Environmental Cleanup Plan for Remedial Actions at the Aircraft Refuel System, Plattsburgh Air Force Base, Plattsburgh, New York, Revision 01. (Contract No. F41624-94-D-8106, Delivery Order 003, CDRL A029, Document Control No. D003043).
- OHM Remediation Services Corp., April 1997. Final Closure Report for the Removal of Underground Storage Tanks, Oil/Water Separators, Septic Tanks, and Aboveground Storage Tanks Revision 00. (Contract No. F41624-94-D-8106, Delivery Order 006, CDRL A030, Document Control No. D006046).
- Tetra Tech, Inc., September 1994. Basewide Environmental Baseline Survey, Plattsburgh Air Force Base, New York.

The ECP (OHM, 1996c) was the "Work Plan" for the removal actions described in this report. Additional written and verbal guidance was provided by both on-site and off-site AFCEE and Air Force Base Conversion Agency (AFBCA) representatives during the course of the project.



BASE BOUNDARY

AIRCRAFT REFUEL SYSTEM

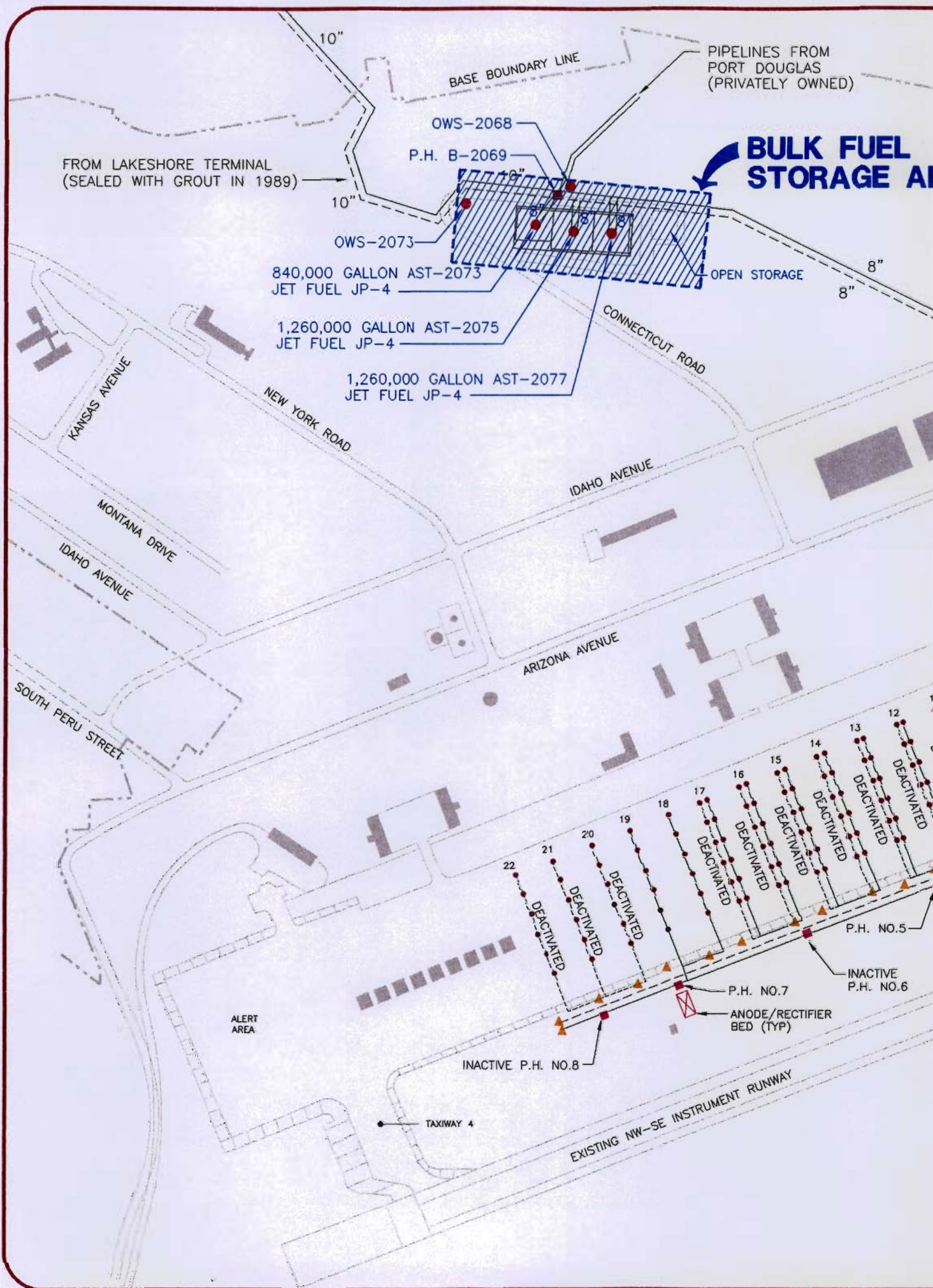


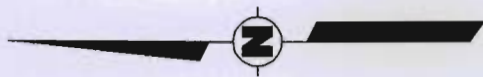
OHM Remediation Services Corp.

Drawn By: A. Smith	Checked By: G. Guimond	Approved By: K. Kukkonen
Date: 5/26/98	Scale: AS SHOWN	Drawing No. 17257-A10

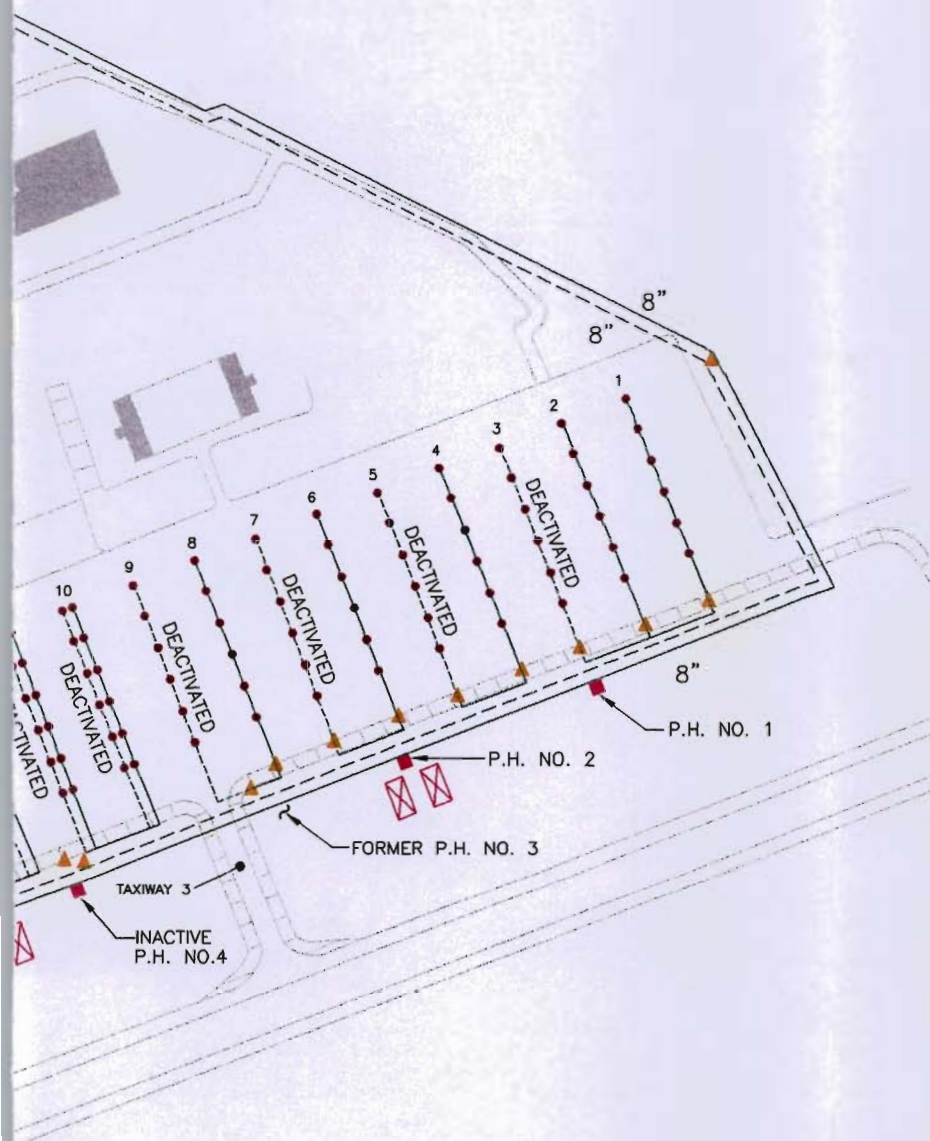
FIGURE 1-1
SITE LOCATION MAP
AIRCRAFT REFUEL SYSTEM
PLATTSBURGH AIR FORCE BASE, NEW YORK

PREPARED FOR
AIR FORCE CENTER FOR
ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE, TEXAS





EA



General Notes and Legend

LEGEND:

- BASE BOUNDARY
- WORK AREA
- REFUELING PORT
- PUMPHOUSE
- VALVE/TRANSFER PIT
- ABOVEGROUND STORAGE TANK (AST) OR OIL/WATER SEPERATOR (OWS)
- ANODE/RECTIFIER BED
- FUEL TRANSMISSION PIPELINES

PUMP HOUSE	BUILDING NUMBER
P.H. No.1	3220
P.H. No.2	3230
P.H. No.3	N/A
P.H. No.4	3250
P.H. No.5	3260
P.H. No.6	3270
P.H. No.7	3280
P.H. No.8	3285

1	REVISED AS PER AIR FORCE COMMENTS	2/26/99
No.	Revision/Issue	Date

FIGURE 1-2
 SITE PLAN
 AIRCRAFT REFUEL SYSTEM
 PLATTSBURGH AIR FORCE BASE, NEW YORK
 PREPARED FOR
 AIR FORCE CENTER FOR
 ENVIRONMENTAL EXCELLENCE
 BROOKS AIR FORCE BASE, TEXAS



**OHM Remediation
 Services Corp.**

OHM Project No. 17257

Drawn By: D.L./A.C.S.	Checked By: G. Guimond	Approved By: K. Kukkonen
Date: 1/16/96	Scale: AS SHOWN	Drawing No. 17257-B11

SCALE
 0 800 1600 FEET

2.0 REMOVAL ACTIVITIES

This section describes the methods and sequence of remediation and assessment activities performed at the BFSA. It includes descriptions of the health and safety monitoring activities, demolition of the BFSA including the removal of three ASTs, the pumphouse, piping and two OWSs, and site restoration. Site photographs are presented as Appendix A.

2.1 HEALTH AND SAFETY

The HASP (OHM, 1996b) was prepared by OHM for this DO. The HASP included documentation of 40-hour training, medical monitoring for OHM personnel, air monitoring requirements, work zone requirements, health and safety personnel, personnel responsibilities, and emergency procedures.

2.1.1 Daily Meetings

Daily safety meetings were conducted to advise workers of the scheduled work for the day and to discuss hazards associated with that work. All OHM and subcontractor personnel attended the daily safety meetings prior to commencing work.

2.1.2 Air Monitoring Program

Air monitoring was conducted to determine the proper level of personal protective equipment, to determine and document that the level of worker protection was adequate, to assess possible migration of contaminants out of the work area due to site conditions (e.g., during asbestos abatement activities), and to determine the adequacy of contaminant suppression measures.

Real-time air monitoring was conducted in the excavation work zones using an Hnu or Photovac photoionization detector (PID). The PID was calibrated at the start of each work day and was used to monitor concentrations of volatile organic compounds (VOCs) in the breathing zone and at the limits of the work area (upwind and downwind). Measurements were taken to determine if construction activities caused an increase above background VOC levels. Measurements were taken at random intervals throughout the day during all excavation and tank removal activities and at the initiation of any new construction activity. Background levels were established daily prior to the commencement of work. Based on the results of the air monitoring program, Level D personal protection was employed for site preparation, construction activities, and site restoration.

2.2 SITE PREPARATION

Site preparation and mobilization for the removal/closure of the entire ARS commenced on November 1, 1995. Several tasks were performed concurrently. Site preparation and mobilization included, but was not limited to the following:

- Installation of perimeter fencing (orange snow fence);
- Installation of access roads or paths;

- Setup of support systems;
- Delineation of laydown areas at each pumphouse;
- Delineation and marking of exclusion zones, work zones, support zones;
- Setup of on-site trailers: 3 office trailers, decon trailer, and on-site laboratory.

2.3 PIPELINE CLEANING

Prior to the BFSa pumphouse demolition, all piping inside the building was disconnected. Draining, pigging, and cleaning of the feeder piping from the ASTs began on February 23, 1996. Pigging was performed by forcing foam pigs through the pipes with compressed nitrogen supplied from a trailer. Each line was pigged at least twice; once initially to remove residual product, and again after placing wash water and detergent in the pipes for flushing. The residual product, rinse water, and degreaser were collected in a vacuum trailer positioned at the opposite end of the pipes.

The collected liquid was transported by OHM to UST-2552-A-2 for temporary storage. This UST was selected as a storage vessel because of its 25,000-gallon capacity and because it was equipped with cathodic protection, a leak detection system, and surrounded by a secondary containment system. UST-2552-A-2 was also used for temporary storage of rinse water from tank cleaning activities at the flightline pumphouses and from Delivery Order 006 operations. Consolidated Environmental Options, Inc. periodically emptied and transported the waste material to United Oil Recovery, Inc. (United) in Meriden, Connecticut for treatment and recycling. Pipe cleaning operations were completed on March 4, 1996.

2.4 PUMPHOUSE DEMOLITION AND REMOVAL OF ABOVEGROUND BULK STORAGE TANKS

An asbestos survey of the pumphouse was conducted prior to demolition, including analysis of samples of the roofing material and pipeline coating. No ACMs were found. The pumphouse building was demolished on June 14, 1996. Pumphouse debris was taken by Northern Sanitation to the White Pit C&D Disposal Facility in Schuyler Falls, New York for disposal. OHM also removed a portion of the railroad track to the east of the pumphouse where train cars formerly offloaded fuel. A truck dispensing station, located just north of the pumphouse, was also dismantled and disposed.

Three ASTs were present at the BFSa. AST 2073 had a capacity of 0.84 million gallons, and ASTs 2075 and 2077 had capacities of 1.26 million gallons. All three ASTs were used to store JP-4 jet fuel. AST-2073 was also used to store heating fuel for several years. Tank cleaning was performed in the spring of 1995, prior to OHM's arrival on site. AST demolition began with AST 2077 on June 20, 1996, continued with AST 2075, and ended with AST 2073 on June 25, 1996. The ASTs were cut up for recycling. Scrap steel was taken by Carter Steel for recycling.

2.5 REMOVAL OF ASBESTOS-COATED PIPELINE

Excavation of the BFSa pipelines was performed between July 10, 1996 and July 25, 1996. The pipelines were coated with asbestos, therefore, the pipeline removal was conducted as an asbestos abatement. The pipelines were removed in sections using hydraulic shears to cut the pipe, then the

sections were double-wrapped in polyethylene sheeting for disposal. The piping was taken to the White Pit C&D Disposal Facility. A copy of the landfill's NYSDEC permit is included in Appendix D.

An estimated 952 cubic yards of contaminated soil were excavated during the pipeline removal based on field screening of soil samples. Soil with headspace readings above 20 parts per million (ppm) was excavated and transported to a central soil staging area on Base for subsequent bioremediation via landfarming (Refer to Section 3.2). A summary of the contaminated soil removed from the BFSA is included in Appendix D.

2.6 REMOVAL OF PORT DOUGLAS AND BFSA OWSs

Two steel OWSs were present in the BFSA: the Port Douglas OWS and the BFSA OWS. The function of the Port Douglas OWS was to separate water from fuel arriving at the BFSA from Port Douglas on Lake Champlain. The function of the BFSA OWS was to receive runoff from the three bermed areas around the ASTs and capture any oil present.

The OWSs were emptied using a vacuum truck on July 30, 1996. The recovered liquids were stored in UST-2552-A-2. Cleaning, excavation and removal of the OWSs was completed in early August 1996.

Contaminated soil was removed from each excavation based on field screening results and the presence of staining and petroleum odors. Post-excavation soil and groundwater samples were then collected from each excavation to assess the presence of residual contamination. On September 4, 1996, four composite soil samples and one water sample were collected for VOC and polynuclear aromatic hydrocarbon (PAH) analyses from the BFSA OWS excavation. On September 6, 1996, four composite soil samples were collected for VOC and PAH analyses from the Port Douglas OWS excavation. Two samples were also collected from the water at the bottom of the excavation. Analytical results from these two sampling events are presented and discussed in Sections 3.4 and 3.5.

OHM removed a total of 1,168 cubic yards of contaminated soil from the Port Douglas and BFSA OWS excavations. This material was transported to the central soil staging area for subsequent landfarming. The concrete support structures for the OWSs were broken up and transported by Northern Sanitation to the White Pit C&D Disposal Facility for disposal as general construction debris.

2.7 BFSA GEOPROBE® INVESTIGATION

A Geoprobe® sampling investigation was performed at the BFSA inside the berm limits. A total of 21 subsurface soil samples and 20 groundwater samples were collected between September 30 and October 4, 1996, for off-site analysis of VOCs and PAHs. Resampling at 10 soil and 15 groundwater sample locations was conducted between December 10 and December 12, 1996, due to problems encountered during analysis of the samples collected during the initial sampling event. Three additional locations were also sampled during this second sampling event to gather additional information on the presence and extent of contamination at the BFSA. Analytical results are discussed in Section 3.6 and presented in Appendix C. Figure 2-1 shows the sample locations.

2.8 SITE RESTORATION

Following demolition of the three ASTs, the concrete pads supporting the ASTs, along with the concrete berms surrounding the ASTs, were demolished and staged with concrete debris generated

during demolition of the BFSA pumphouse. Once this was completed, the earthen berms underlying and supporting the concrete berms, along with clean fill, was used to regrade the AST area. Restoration was completed when the BFSA was hydroseeded in September 1996.

Imported borrow material from several sources was used to backfill excavations associated with removal actions conducted by OHM throughout the Base, including those at the BFSA. A summary of the sampling and analyses conducted to verify that the imported material was acceptable for use is presented as Appendix E.

2.9 WASTE DISPOSAL DOCUMENTATION

All of the excavated soil remained on-site and was transported to the on-site treatment facility. As mentioned above, the residual product and rinse water from the BFSA pipelines were temporarily stored with rinse water generated during tank cleaning activities at the Base (under Delivery Orders 003 and 006) in UST-2552-A-2. The material was characterized as a D001 and D018 hazardous waste due to the flash point and benzene concentration. After receiving the waste, United used an OWS to separate the fuel from the water. The water was treated until it met Universal Treatment Standards and discharged when Clean Water Act criteria were achieved. United then blended and shipped the organic fraction for use as an energy source for incineration. A table summarizing the disposal quantities and associated hazardous waste manifest numbers is included in Appendix D. Copies of the hazardous waste manifests are maintained in OHM's project files and can be found in the Delivery Order 006 Closure Report, Volume 1 (OHM, April 1997).

Table 2-1 contains a summary of the disposal information for the asbestos piping, concrete and debris, scrap steel, railroad ties and contaminated soil. Appendix D contains additional transportation and disposal information.

TABLE 2-1
Transportation and Disposal Summary

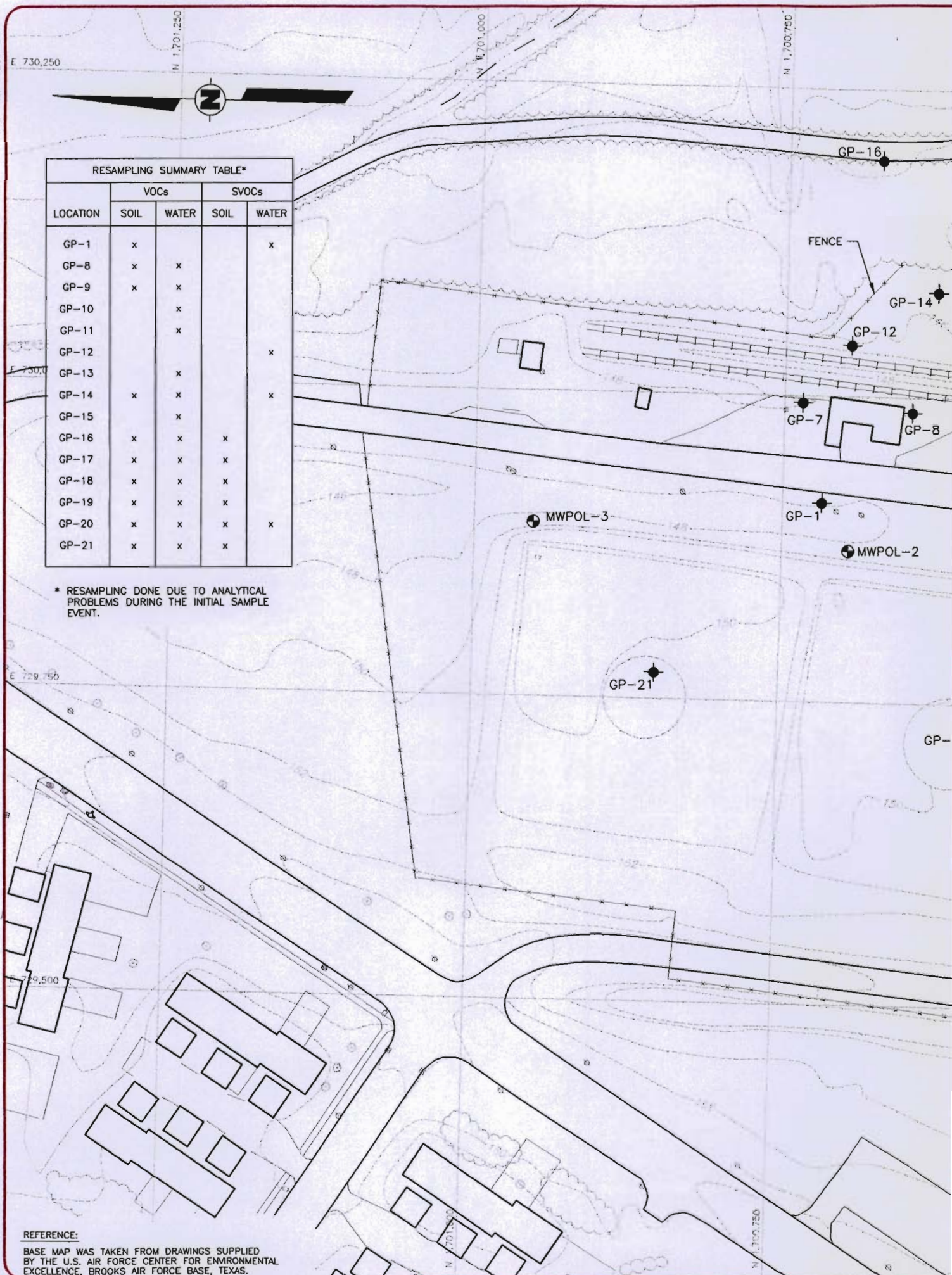
Material	Transportation Dates	Total Quantity (approximate)
Asbestos-Coated Piping	04/16/96 – 07/24/96	30,231 linear feet* (various diameters)
Concrete and Debris	05/03/96 – 08/08/96	4020 cubic yards
Hazardous Liquid (JP-4, gasoline, oil and water)	01/22/96 – 10/30/96	133,379 gallons**
Scrap Metal	07/01/96 – 07/18/96	53 tons
Railroad Ties	07/18/96 – 07/19/96	150 cubic yards
Contaminated Soil	07/18/96 – 08/28/96	2,120 cubic yards

* - Quantity includes removal of both the BFSA AST feeder pipelines and the ARS transmission pipelines.

** - The rinse water from the pigging and tank cleaning operations were placed in the same holding tank as the rinse water from the D.O. 006 removal activities, therefore the total quantity reflects all sources.

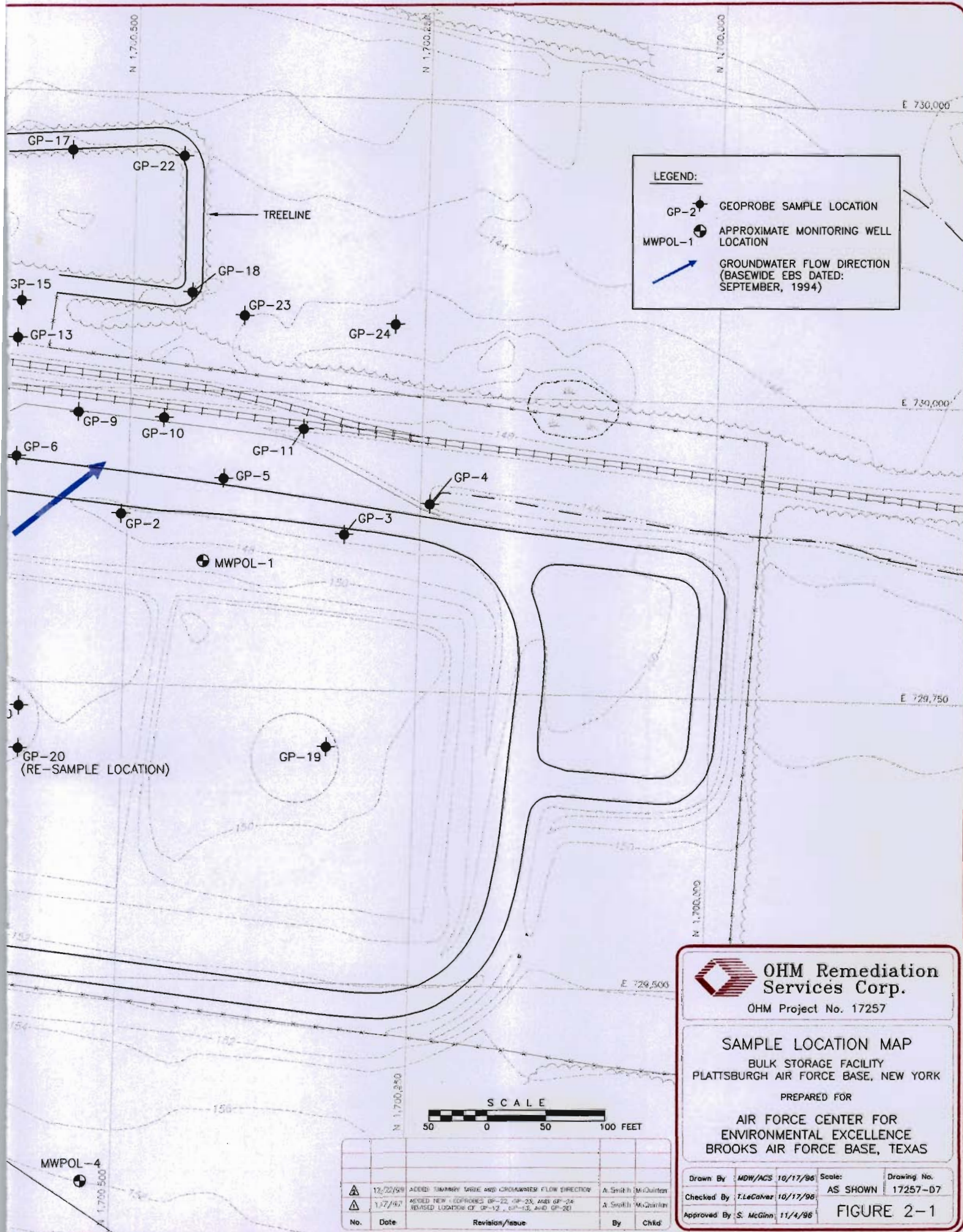
RESAMPLING SUMMARY TABLE*				
LOCATION	VOCs		SVOCs	
	SOIL	WATER	SOIL	WATER
GP-1	x			x
GP-8	x	x		
GP-9	x	x		
GP-10		x		
GP-11		x		
GP-12				x
GP-13		x		
GP-14	x	x		x
GP-15		x		
GP-16	x	x	x	
GP-17	x	x	x	
GP-18	x	x	x	
GP-19	x	x	x	
GP-20	x	x	x	x
GP-21	x	x	x	

* RESAMPLING DONE DUE TO ANALYTICAL PROBLEMS DURING THE INITIAL SAMPLE EVENT.



REFERENCE:

BASE MAP WAS TAKEN FROM DRAWINGS SUPPLIED BY THE U.S. AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE, BROOKS AIR FORCE BASE, TEXAS.



3.0 *SAMPLING AND ANALYTICAL DATA*

Sampling activities and analytical results are described and discussed in the following sections. Analytical data are presented in Appendices B and C. Appendix B contains individual closure reports for the ASTs and OWSS. Results of the Geoprobe® samples are presented in Appendix C. United States Environmental Protection Agency (EPA) Methods 8021 and 8270 were used by both the on-site and subcontract laboratories for VOC and PAH analyses, respectively, in accordance with the NYSDEC STARS Memo #1 guidance document, since the BFSa was considered a potential petroleum spill site.

Soil sample results were compared against Toxicity Characteristic Leachate Procedure (TCLP) Alternative Guidance Values provided in STARS Memo #1, with the exception of the soil sample results for lead, which were used to assess contamination from lead paint, not petroleum. Groundwater data were evaluated using the ambient water quality standards presented in NYSDEC TOGS 1.1.1. A matrix summarizing the results of soil and water samples collected from the OWS excavations and during the Geoprobe® investigation is presented as Table 3-1. Detected compounds with concentrations at or above the guidance values are flagged and all detected compounds are color coded to indicate the magnitude of the detected concentration, with respect to guidance values or standards.

3.1 LEAD SAMPLING

Past activities at the BFSa included repainting of the three ASTs. Concern was raised by AFCEE over the possibility that repainting may have contaminated the soil surrounding the ASTs with lead. As a result, soil sampling was conducted to assess the presence of lead in soil surrounding the ASTs, and to determine if lead was present at concentrations above the 400 micrograms per gram ($\mu\text{g/g}$) screening level established for remediation of the two small arms ranges on Base.

On March 26, 1996, grab soil samples were collected from the secondary containment area (inside the berms) 5 feet away from AST 2075 on the north, south, east, and west sides, respectively. Samples were also collected 10 feet away from the tank on each of the four sides. All eight samples were collected beneath the layer of crushed stone at a depth of 6 to 8 inches below the top of the crushed stone. The samples were sent to Adirondack Environmental Services laboratory in Albany, New York for total lead analysis by EPA Method 6010. Lead concentrations detected in these samples ranged from 9 to 120 $\mu\text{g/g}$.

A second round of samples was collected from these same eight locations in April 1996. The purpose of this second sampling event was to assess lead concentrations in soil beneath the bentonite layer that was present. On April 3, 1996, soil samples were collected at distances of 5 and 10 feet from the east and south sides of AST 2075. The four samples were collected from beneath the bentonite layer at a depth of 2 feet below ground surface. On April 10, 1996, samples were collected from the north and west sides of the tank at the same distance intervals. However, the bentonite layer was thicker in these areas and the samples were collected from depths of 3 to 4 feet below ground surface. The eight soil samples collected during this sampling event were also sent to Adirondack Environmental Services for analysis of total lead. Lead concentrations in the samples collected from beneath the bentonite clay layer were lower (4.5 to 9.5 $\mu\text{g/g}$) in comparison to the concentrations detected in first round of samples collected just below the ground surface. Lead sampling data for both sampling events are contained in the AST Closure Report provided as Appendix B.

Since lead was not detected above the action level of 400 µg/g in any of the 16 samples collected around AST 2075, it was not considered necessary to conduct lead sampling around ASTs 2073 and 2077.

3.2 AST PIPE REMOVAL SAMPLING

Between July 11 and July 24, 1996, a series of headspace samples were collected during the AST pipeline removal at the BFSa. A total of 84 soil samples were collected for headspace screening using a portable PID. The headspace sample locations and corresponding PID readings are provided as part of the AST Closure Report in Appendix B. No PID readings above background were measured at 23 of the locations. Readings below 20 ppm were measured at 9 locations. Sixteen locations had measurements between 20 and 100 ppm. Readings between 100 and 1,000 ppm were recorded at 19 locations. PID readings above 1,000 ppm were measured at 17 locations. The highest PID reading (5,910 ppm) was measured in a sample collected within the AST 2075 berm area. Soil with headspace readings above 20 ppm was excavated and transported to the soil storage area on Base for eventual bioremediation. The 20 ppm headspace concentration limit was established by the Base through negotiations with the NYSDEC Region V Spill Response Office and was used to determine which soil would require removal and remediation. This reduced the number of samples requiring analysis in the on-site laboratory and eliminated delays in the on-site work.

On July 12, 1996, two grab soil samples were collected from the AST pipeline removal trenches for analysis of VOCs and PAHs by the on-site laboratory. Sample EX2075-5E was collected from a trench within the AST 2075 berm, and sample EX2077-2W was collected from a trench within the AST 2077 berm. No VOCs or PAHs were detected in sample EX2075-5E at concentrations above the New York State TCLP Alternative Guidance Values presented in the STARS Memo #1. Ethylbenzene, total xylenes, and seven PAHs were detected in sample EX2077-2W at concentrations above guidance values. The sample location with analytical results is shown on Figure 3-1. Complete analytical results are included in Appendix B.1.

3.3 MONITORING WELL SAMPLING

A groundwater sample was collected from each of the four existing monitoring wells within the BFSa to assess whether petroleum-related contaminants were present in groundwater. Monitoring wells 1, 2, and 3 are located downgradient of the three former AST locations. The fourth monitoring well is located upgradient of the former tanks.

On August 8, 1996, monitoring wells MWPOL-1, -2, -3, and -4 were sampled (Figure 2-1). A duplicate sample, an equipment rinsate, and an ambient blank sample were also collected for quality assurance/quality control (QA/QC) purposes. Samples were sent to Friend Laboratory in Waverly, New York for VOC and semi-volatile organic compounds (SVOCs) analyses. No VOCs or SVOCs were detected at concentrations above NYSDEC water quality standards. The only VOC detected was 1,2,4-trimethylbenzene at a concentration of 1 microgram per liter (µg/L) in sample MWPOL-2. The SVOCs di-n-butylphthalate (1.2 to 6.8 µg/L) and bis(2-ethylhexyl)phthalate (2.0 to 13 µg/L) were detected in all four samples. Bis(2-ethylhexyl)phthalate was also present in the equipment rinsate sample at a concentration of 150 µg/L. No other SVOCs were detected in the monitoring well samples. Monitoring well analytical data are provided as part of the AST Closure Report included as Appendix B.

3.4 PORT DOUGLAS OWS SAMPLE RESULTS

On July 11, 1996, one composite liquid sample was collected from the liquid contained in the Port Douglas (OSW-2068) and BFSAs (OWS-2073) OWSs for disposal purposes. This sample was sent to CTM Analytical Laboratories (CTM) in Latham, New York for full TCLP, pesticides/polychlorinated biphenyls (PCBs) (EPA Method 8080), and ignitability (EPA Method 1010) analyses. The liquid was characterized as non-hazardous and transported to UST-2552-A-2 for storage and eventual disposal.

On August 7, 1996, following removal of the OWS, composite soil sample SPPHOWS-1 was collected from the excavated soil stockpile. This sample was analyzed for VOCs and PAHs by the on-site laboratory. Among the compounds detected were elevated levels of benzene, toluene, ethylbenzene, and xylenes (BTEX). Therefore, the material was transported to the central staging area for subsequent bioremediation.

On August 19, 1996, liquid sample BSOWSPH-LQ was collected from the water at the bottom of the Port Douglas excavation. The liquid sample was analyzed for VOCs and PAHs by the on-site laboratory. No PAHs were detected in the liquid sample at concentrations above New York State Class GA Groundwater Standards. The VOC results for this sample were not reported due to a missed holding time.

On September 6, 1996, post-excavation and composite soil samples were collected from each of the four sidewalls for analysis of VOCs and PAHs. Benzene (16.2 nanograms per gram (ng/g)) and naphthalene (215 ng/g) were detected in the sample collected from the west sidewall at concentrations above their respective guidance values of 14 and 200 ng/g. Seven PAHs were detected in the sample collected from the north sidewall at concentrations above guidance values.

On September 12, 1996, liquid sample OWSPH-LQ2 was collected from the water at the bottom of the excavation because the holding time was exceeded for the original sample. This sample was analyzed for VOCs by the on-site laboratory. Benzene (8.9 µg/L), m,p-xylene (29.6 µg/L), and o-xylene (9.9 µg/L) were detected at concentrations above their respective groundwater standards.

All sampling and analysis data for the Port Douglas OWS is provided in the individual closure report included in Appendix B.2.

3.5 BFSAs OWS SAMPLE RESULTS

On August 7, 1996, composite sample SPBSOWS-1 was collected from the BFSAs OWS soil/sediments stockpile. This sample was analyzed on site for VOCs and PAHs. No VOCs or PAHs were detected.

On September 4, 1996, one groundwater sample was collected from the bottom of the excavation and one composite soil sample was collected from each of the four sidewalls of the excavation. All five samples were analyzed for VOCs and PAHs by the on-site laboratory. No VOCs or PAHs were detected at concentrations exceeding guidance values for soil or in excess of groundwater standards.

All sampling and analytical data are provided in the individual closure report for the BFSAs OWS included in Appendix B.3.

3.6 **GEOPROBE® SAMPLE RESULTS**

A subsurface soil and groundwater investigation was conducted at the BFSA to assess the presence and distribution of contaminants associated with past site activities. Between September 30 and October 4, 1996, Geoprobe® was conducted at 21 locations, designated BSGP-1 through BSGP-21. The 21 locations were selected by the AFBCA and are shown on Figure 2-1. Twenty one soil and 20 groundwater samples were collected and submitted to CTM for analysis of VOCs and PAHs. Because of what appeared to be a separate-phase liquid in the groundwater at location BSGP-14, only a soil sample was collected for analysis. Soil samples were collected from the core interval with the highest PID reading. If no PID reading was noted, soil was collected at the top of groundwater. Soil and groundwater samples were identified by "S" and "W" suffixes, respectively. All sampling locations were marked with stakes and flagging.

A second Geoprobe® sampling event was conducted between December 10 and December 12, 1996, during which 10 soil and 15 groundwater samples were recollected. The second sampling event was conducted because several of the original samples were extracted and analyzed outside holding times. In addition to the resampling, one groundwater sample was collected from BSGP-14, and soil and groundwater samples were collected from three additional locations selected by the AFBCA (BSGP-22 through BSGP-24). Upon closer observation of the sample collected from BSGP-14, the separate-phase liquid appeared to be some type of algae that readily dissolved in the water upon shaking.

All original sampling locations were re-sampled with the exception of location BSGP-20. This sampling location was too wet to be accessible to the Geoprobe®. Therefore, the closest location that was free of surface water, but still under the footprint of the former AST, was selected. This location was 36 feet west of the original sample location. Second round samples were identified by adding the suffix "A" to the initial sample number, except at locations BSGP-16 and BSGP-20. For the sample identification at location BSGP-16, the suffix "5.5" was used because the highest PID reading was noted at a depth of 5.5 feet. The suffix "1" was used to identify the sample collected at location BSGP-20 because the location was offset from the original location. The samples were shipped to CTM for analysis of VOCs and/or PAHs depending upon the compounds detected during the initial sample analysis. Samples collected from the three new locations were analyzed for both VOCs and PAHs.

A matrix summarizing the results of the soil and groundwater samples collected during the Geoprobe® investigation is presented as Table 3-1. Figure 3-1 shows the sample locations where compounds were detected in soil at concentrations greater than or equal to guidance values. Figure 3-2 shows the sample locations where compounds were detected in the groundwater at concentrations greater than or equal to guidance values. Figures 3-1 and 3-2 present all of the analytical results from both sampling events. Analytical summary tables for both sampling events are included in Appendix C. The summary information included in the following subsections consists only of the results of samples that were extracted and analyzed within holding times.

3.6.1 **VOC Results**

Ethylbenzene and xylenes were the only VOCs detected in soil samples at concentrations above guidance values. Ethylbenzene (100 to 4,100 ng/g) and xylenes (140 to 2,400 ng/g) were detected at six locations at concentrations equal to or above the 100 ng/g guidance values. The highest concentrations of both VOCs were detected at sample location BSGP-11.

VOCs were detected in groundwater samples from 12 locations at concentrations above

groundwater standards. Benzene was detected at 9 locations at concentrations (2 to 2,600 µg/L) above the 0.7 µg/L groundwater standard. Toluene was detected at 4 sample locations at concentrations ranging from 13 to 170 µg/L. Ethylbenzene (10 locations - 5 to 2,600 µg/L) and total xylenes (11 locations - 14 to 9,500 µg/L) were detected at concentrations above the 5 µg/L groundwater standard. The highest concentrations of benzene, ethylbenzene, and xylenes were detected at sample location BSGP-14 which contained the separate-phase liquid that appeared to be algae. Sample location BSGP-20 contained the highest concentration of toluene.

3.6.2 PAH Results

The PAHs benzo(a)anthracene (240 ng/g), benzo(a)pyrene (200 ng/g), benzo(b)fluoranthene (320 ng/g), and chrysene (190 ng/g) were detected in soil sample BS-GP-08S at concentrations above their respective guidance values. No other PAH exceedences were detected in any of the other soil samples collected during the Geoprobe® assessment.

PAHs were detected in groundwater at five locations at concentrations greater than or equal to groundwater standards. Naphthalene (34 µg/L) and acenaphthene (25 µg/L) exceeded the groundwater standards of 10 and 20 µg/L, respectively, at sample location BSGP-1. Naphthalene also exceeded the groundwater standards at GP-08, GP-12, and GP-20. At sample location BSGP-13, 13 PAHs were detected at concentrations above groundwater standards. The concentrations detected ranged from 8 µg/L to 100 µg/L. The sample collected from BSGP-20 contained naphthalene (40 µg/L) and benzo(a)anthracene (8 µg/L) at concentrations in excess of groundwater standards.

3.7 QUALITY ASSURANCE/QUALITY CONTROL

The purpose of this section is to summarize the QA/QC procedures used during the project and to discuss any specific quality control (QC) problems and associated corrective actions.

3.7.1 Sampling Quality Control

QC during sampling activities in the field was maintained through the use of Standard Operating Procedures (SOPs) and by the use of QC samples. OHM included sampling SOPs as an Appendix to the QAPP (OHM, 1996e) for use as guidance during sampling activities. In general, stainless steel sampling equipment was used to collect and homogenize samples in the field, and all reusable equipment was decontaminated between uses. Homogenization of samples would only occur after a grab sample for volatiles analysis had been removed and placed in its appropriate container. Project-specific collection logs were used to document the sample collection and to serve as chain-of-custody documentation for samples analyzed by the on-site laboratory. Bound logbooks were also used to document the collection of samples.

QC samples collected during the BFSa sampling activities included field duplicates, ambient blanks, equipment rinsate blanks, and trip blanks. During the BFSa remediation, duplicate sample MWPOL-4D was collected as part of the monitoring well sampling event. Analytical results for this sample are included in Appendix B. A total of four duplicate samples (three soil and one groundwater) were collected during the Geoprobe® sampling events. The analytical results are included in Appendix C. In general, the results of the field duplicates show good sampling precision.

The results of the field-generated blanks are summarized in Table 3-2 along with the laboratory method blanks associated with the samples collected during the OWS removals and the Geoprobe®

(carcinogenic PAHs (cPAHs)) are derived from health based criteria and require detection limits that are not achievable by the published analytical methods. AFCEE, AFBCA and NYSDEC representatives reviewed and approved the MDLs/PQLs used by the on-site laboratory and concluded that the MDLs for the cPAHs would serve as the guidance values.

Laboratory QC samples consisted of initial and continuing calibrations, method blanks, blank spikes, matrix spikes, and matrix spike duplicates. QC samples were analyzed at the frequency required by the respective analytical methods and QC objectives were based on "AFCEE Minimum Analytical Chemistry Laboratory Requirements". Sample data were not accepted unless initial and continuing calibrations were within acceptance limits.

Surrogates were introduced to each sample to evaluate accuracy and extraction efficiency. Samples with poor surrogate recoveries were reanalyzed. If the reanalysis confirmed matrix affects, then the original analysis was reported with the proper qualifier ("S"). If the reanalysis did not confirm matrix affects, then the reanalysis was reported with an "RE" appended to the sample ID.

A summary of method blank results for on-site VOC and SVOC results is provided in Table 3-2. Only the results of method blanks that caused qualification of data are provided in Appendix B.

3.7.3 QC Issues & Data Qualifiers

Specific QC problems experienced during sampling and analysis activities associated with closure of the BFSa were as follows:

- Three of the method blanks analyzed on-site contained o-xylene, which resulted in applying a "B" qualifier to samples SPPHOWS-1 and EX2077-2W. It was not necessary to qualify any data based on the results of PAH method blanks.
- Results of excavation samples OWSPH-S1 and OWSPH-W1 were qualified with an "S" due to high surrogate recoveries.
- As previously noted in Section 3.6, many of the samples collected during the September/October 1996 Geoprobe® sampling event did not meet QA/QC requirements due to missed holding times and poor PAH analysis surrogate recoveries. Therefore, a second sampling event was conducted to obtain data of reliable quality. Analytical results for the first sampling events which were analyzed or extracted outside of the method holding times have been qualified with an "R" which indicates that the data may be considered unusable due to the QC problems. PAH results for two of the samples (BSGP-1W and BSGP-12W) were qualified with an "S" due to poor surrogate recoveries.

No other significant laboratory QA/QC problems associated with samples collected from the BFSa were noted.

Data qualifiers were applied during final review of the data based on the QAPP requirements as well as some additional qualifiers requested by AFCEE. Data qualifier definitions are as follows:

- J Indicates an estimated concentration is below the PQL and above the MDL.
- B Indicates that contamination was also present in an associated blank (field or laboratory) above the MDL.

investigation. In general, the blank sample data indicates good decontamination and sample handling procedures. Ambient blank AB-POL was collected during the monitoring well sampling event to assess the potential introduction of VOC contaminants into the sample from ambient sources (Appendix B). Naphthalene (1 µg/L) and methylene chloride (59 µg/L) were the only compounds detected in AB-POL. Methylene chloride is a common laboratory contaminant. An ambient blank was also collected during the BFSa OWS sampling event conducted on September 4, 1996. However, this ambient blank was not analyzed because no VOCs were detected in the associated field samples. Ambient field blanks AFB121096 and AFB121196 were collected during the second Geoprobe® sampling event. No VOCs were detected in either sample (Appendix C).

Equipment rinsate blanks were used to assess the effectiveness of decontamination procedures for sampling equipment and were collected at a frequency of 10%. Seven equipment rinsates were collected during the Geoprobe® sampling events. No VOCs or PAHs were detected in any of the seven blanks (Appendix C). A rinsate (ER-POL) was also collected during the monitoring well sampling event. As previously mentioned in Section 3.3, bis(2ethylhexyl)phthalate was detected in all four of the groundwater samples collected and was also present in the rinsate sample at a concentration of 150 µg/L. Methylene chloride (64 µg/L) and naphthalene (1 µg/L) were also detected the rinsate sample. Analytical results for the rinsate blank (ER-POL) are included in Appendix B.

Trip blanks accompanied shipments of VOCs samples to off-site laboratories to ensure that VOC contamination was not introduced during sample handling, transportation and storage. Analytical results for the trip blanks sent with the monitoring well and Geoprobe® samples are provided in Appendices B and C, respectively. Trichloroethylene (TCE) was detected (9 µg/L) in the trip blank associated with the Geoprobe® samples shipped on 10/1/96. TCE was not detected in any of the field samples sent with this trip blank. VOCs were not detected in any of the other trip blanks.

3.7.2 On-site Laboratory QC

The majority of samples collected at the BFSa were analyzed by off-site laboratories due to the requirement for lead testing which was not done at the on-site laboratory, and due to the Geoprobe® investigation being conducted subsequent to the on-site laboratory shutting down. Some of the analyses for samples collected at the BFSa were conducted on-site in a mobile laboratory which was transported to the site for the project. The on-site laboratory was set up to analyze an abbreviated list of VOCs by EPA Method 8021, and PAHs by EPA Method 8270. SOPs were developed for each method and included in the QAPP.

Innovative extraction techniques were used in an attempt to facilitate sample throughput, since the on-site laboratory was also required to analyze samples generated under a separate AFCEE delivery order. Initially, supercritical fluid extraction (SFE) was utilized to extract PAHs from soil samples, and solid phase extraction (SPE) was used to extract PAHs from water samples. Problems with these extraction techniques led to the use of more traditional extraction procedures. Sonication was used to conduct soil sample extractions starting on 07/01/96 after it became evident that persistent maintenance problems associated with the SFE could not be resolved. The presence of an abundance of fine particulates in the water samples had a considerable impact on the ability to move samples through the SPE filters. Separatory funnel extractions replaced SPEs for water samples on 03/13/96. Method detection limits (MDL) studies were conducted by the laboratory for each extraction/analytical method. The MDLs for the on-site laboratory are provided in Appendix F. The PAH extraction techniques used during on-site analysis of samples discussed in this Volume are SFE and sonication for soils and separatory funnel for water samples. The NYSDEC guidance values for many of the target analytes

- D Indicates that the sample or sample extract was diluted to bring the contaminant concentration within the linear range of the calibration curve.
- E Indicates an estimated concentration is above the calibration range.
- R Indicates that the data may be considered unusable due to deficiencies in the ability to analyze the sample and meet QC criteria (i.e. analysis or extraction done outside holding time).
- ND The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL. A "U" qualifier, which is synonymous with "ND", was used by some of the off-site laboratories. The numerical value associated with the U is at or below the off-site laboratory PQL.
- S Indicates that reported sample exhibited poor surrogate recoveries. VOC results were qualified if the one surrogate was outside limits and the PAH results were qualified if more than two surrogates were outside limits.
- N Indicates that the ELCD detector (confirmation detector for TCE) was not functioning properly during the analysis.
- RE Indicates that the sample was re-extracted and re-analyzed due to QC problems on the initial analysis.

Table 3-1 BFSA - Sample Results Summary

Tank ID	Site ID	SampleID	Matrix	Date Sampled	Volatile Analysis Date	Semivolatile Extraction Date	Semivolatile Analysis Date	MTBE	Benzene	Trichloroethylene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Xylenes, total	Naphthalene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benz(b)fluoranthene	Benz(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benz(g,h,i)perylene
AST-2073, -2075, -2077	BSAGP	BS-GP-01S	Soil/Solid	30-Sep-96	11-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-01S-A	Soil/Solid	10-Dec-96	14-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-01W	Aqueous	30-Sep-96	10-Oct-96	04-Oct-96	07-Oct-96	-	#	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-01W-A	Aqueous	11-Dec-96		12-Dec-96	17-Dec-96								#	#	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-02S	Soil/Solid	30-Sep-96	11-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-02W	Aqueous	30-Sep-96	11-Oct-96	04-Oct-96	07-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-03S	Soil/Solid	30-Sep-96	11-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-03W	Aqueous	30-Sep-96	11-Oct-96	04-Oct-96	07-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-04S	Soil/Solid	01-Oct-96	11-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-04W	Aqueous	01-Oct-96	11-Oct-96	04-Oct-96	09-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-04WDP	Aqueous	01-Oct-96	11-Oct-96	05-Oct-96	07-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-05S	Soil/Solid	01-Oct-96	10-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-05W	Aqueous	01-Oct-96	10-Oct-96	04-Oct-96	07-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-06S	Soil/Solid	01-Oct-96	10-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-06SDP	Soil/Solid	01-Oct-96	11-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-06W	Aqueous	01-Oct-96	11-Oct-96	04-Oct-96	04-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-07S	Soil/Solid	01-Oct-96	11-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-07W	Aqueous	01-Oct-96	10-Oct-96	04-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-08S	Soil/Solid	01-Oct-96	12-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-08S-A	Soil/Solid	10-Dec-96	13-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-08W	Aqueous	02-Oct-96	11-Oct-96	05-Oct-96	08-Oct-96	-	-	-	-	#	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-08W-A	Aqueous	11-Dec-96	15-Dec-96			-	-	-	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-09S	Soil/Solid	01-Oct-96	12-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-09S-A	Soil/Solid	10-Dec-96	15-Dec-96			-	-	-	-	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-09S-A-D	Soil/Solid	10-Dec-96	14-Dec-96			-	-	-	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-09W	Aqueous	02-Oct-96	12-Oct-96	05-Oct-96	08-Oct-96	-	#	-	-	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-09W-A	Aqueous	11-Dec-96	16-Dec-96			-	-	-	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-10S	Soil/Solid	02-Oct-96	16-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-10W	Aqueous	02-Oct-96	18-Oct-96	08-Oct-96	17-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-10W-A	Aqueous	11-Dec-96	15-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-11S	Soil/Solid	02-Oct-96	16-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-11W	Aqueous	02-Oct-96	16-Oct-96	08-Oct-96	17-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-11W-A	Aqueous	11-Dec-96	16-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-12S	Soil/Solid	02-Oct-96	15-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-12W	Aqueous	02-Oct-96	16-Oct-96	05-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-12W-A	Aqueous	12-Dec-96		12-Dec-96	17-Dec-96																						
		BS-GP-13S	Soil/Solid	02-Oct-96	12-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-13W	Aqueous	02-Oct-96	18-Oct-96	08-Oct-96	17-Oct-96	-	-	-	-	#	-	-	-	-	#	#	#	#	#	#	#	#	#	#	#	#	#
		BS-GP-13W-A	Aqueous	11-Dec-96	15-Dec-96			-	-	-	-	#	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-14S	Soil/Solid	02-Oct-96	16-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-14S-A	Soil/Solid	10-Dec-96	13-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-14W-A	Aqueous	11-Dec-96	15-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-15S	Soil/Solid	02-Oct-96	12-Oct-96	07-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-15W	Aqueous	02-Oct-96	17-Oct-96	08-Oct-96	17-Oct-96	-	-	-	-	-	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-15W-A	Aqueous	11-Dec-96	14-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-16S	Soil/Solid	02-Oct-96	17-Oct-96	17-Oct-96	24-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-16S-5.5	Soil/Solid	10-Dec-96	12-Dec-96	11-Dec-96	12-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-16W	Aqueous	03-Oct-96	17-Oct-96	05-Oct-96	09-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-16W-A	Aqueous	11-Dec-96	14-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-17S	Soil/Solid	02-Oct-96	17-Oct-96	17-Oct-96	18-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-17S-A	Soil/Solid	10-Dec-96	13-Dec-96	11-Dec-96	12-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-17W	Aqueous	03-Oct-96	17-Oct-96	05-Oct-96	17-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key: blank, () = not analyzed; (-) = not detected; (+), green = detected, below regulatory limit; (#), yellow = detected, above regulatory limit; (#), red = detected > 10 times regulatory limit

Table 3-1 BFSA - Sample Results Summary

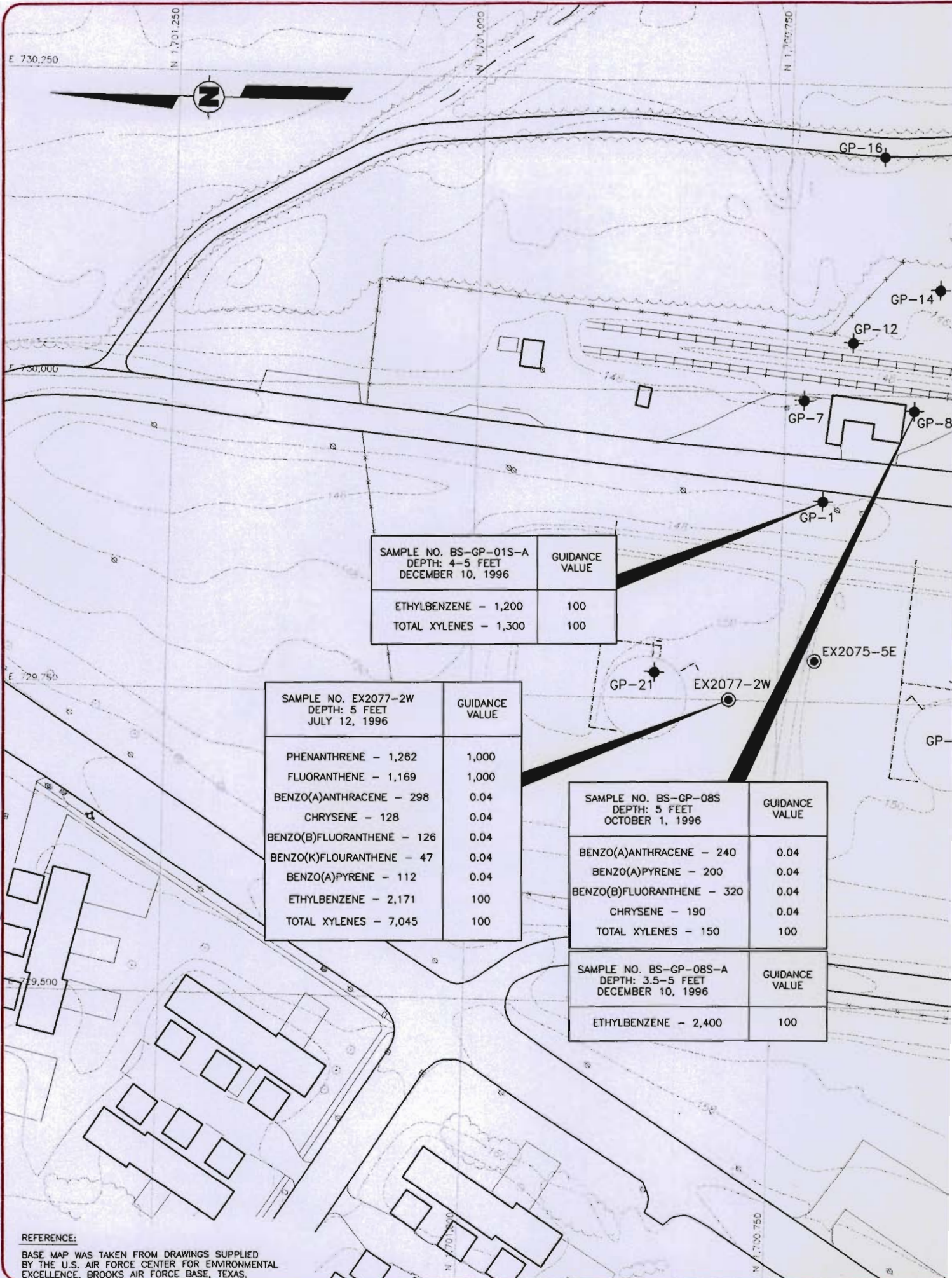
Tank ID	Site ID	SampleID	Matrix	Date Sampled	Volatile Analysis Date	Semivolatile Extraction Date	Semivolatile Analysis Date	MTBE	Benzene	Trichloroethylene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Xylenes, total	Naphthalene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
AST-2073,-2075,-2077	BSAGP	BS-GP-17W-A	Aqueous	11-Dec-96	14-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-18S	Soil/Solid	02-Oct-96	17-Oct-96	17-Oct-96	18-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-18S-A	Soil/Solid	10-Dec-96	13-Dec-96	11-Dec-96	12-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-18S-A-D	Soil/Solid	10-Dec-96		11-Dec-96	12-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-18W	Aqueous	03-Oct-96	17-Oct-96	05-Oct-96	17-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-18W-A	Aqueous	11-Dec-96	14-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-19S	Soil/Solid	02-Oct-96	17-Oct-96	17-Oct-96	18-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-19S-A	Soil/Solid	11-Dec-96	14-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	#	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-19W	Aqueous	03-Oct-96	17-Oct-96	05-Oct-96	09-Oct-96	-	#	-	-	#	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-19W-A	Aqueous	11-Dec-96	19-Dec-96			-	-	-	-	#	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-20S	Soil/Solid	02-Oct-96	17-Oct-96	17-Oct-96	18-Oct-96	-	-	-	-	#	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-20S-1	Soil/Solid	12-Dec-96	14-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-20W	Aqueous	03-Oct-96	18-Oct-96	05-Oct-96	08-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-20W-1	Aqueous	12-Dec-96	14-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-21S	Soil/Solid	02-Oct-96	17-Oct-96	17-Oct-96	18-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-21S-A	Soil/Solid	12-Dec-96	14-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-21W	Aqueous	03-Oct-96	17-Oct-96	05-Oct-96	08-Oct-96	-	-	-	-	-	-	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-21W-A	Aqueous	12-Dec-96	14-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-22S	Soil/Solid	11-Dec-96	14-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-22W	Aqueous	11-Dec-96	14-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-23S	Soil/Solid	11-Dec-96	14-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-23W	Aqueous	12-Dec-96	14-Dec-96	12-Dec-96	17-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-24S	Soil/Solid	11-Dec-96	14-Dec-96	12-Dec-96	12-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-24W	Aqueous	11-Dec-96	14-Dec-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		BS-GP-24W-A	Aqueous	12-Dec-96		12-Dec-96	17-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AST-2073,-2075,-2077	ARSBSAPLA	EX2075-5E	Soil/Solid	12-Jul-96	25-Jul-96	16-Jul-96	16-Jul-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		EX2077-2W	Soil/Solid	12-Jul-96	24-Jul-96	18-Jul-96	19-Jul-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OWS-2068	OWSPH	BSOWSPH-LQ	Aqueous	19-Aug-96		22-Aug-96	24-Aug-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OWSPH-E1	Soil/Solid	06-Sep-96	16-Sep-96	11-Sep-96	13-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OWSPH-LQ2	Aqueous	12-Sep-96	15-Sep-96			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OWSPH-N1	Soil/Solid	06-Sep-96	16-Sep-96	11-Sep-96	13-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OWSPH-S1	Soil/Solid	06-Sep-96	16-Sep-96	11-Sep-96	13-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OWSPH-W1	Soil/Solid	06-Sep-96	16-Sep-96	11-Sep-96	13-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OWS-2073	OWSBSA	EXBSOWSE	Soil/Solid	04-Sep-96	15-Sep-96	10-Sep-96	12-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		EXBSOWSLQ	Aqueous	04-Sep-96	15-Sep-96	05-Sep-96	10-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		EXBSOWSN	Soil/Solid	04-Sep-96	16-Sep-96	10-Sep-96	12-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		EXBSOWSS	Soil/Solid	04-Sep-96	15-Sep-96	10-Sep-96	12-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		EXBSOWSW	Soil/Solid	04-Sep-96	16-Sep-96	10-Sep-96	12-Sep-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key: blank, () = not analyzed; (-) = not detected; (+), green = detected, below regulatory limit; (#), yellow = detected, above regulatory limit; (#), red = detected > 10 times regulatory limit

Table 3-2 QC Blank Sample Results Summary

SampleID	Matrix	Date Sampled	Purpose	Volatile Analysis Date	Semivolatile Extraction Date	Semivolatile Analysis Date	MTBE	Benzene	Trichloroethylene	Toluene	Ethylbenzene	M,p-Xylene	O-Xylene	Xylenes, total	Naphthalene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
PID2753	Aqueous	24-Jul-96	Method Blank	24-Jul-96			-	-	-	-	-	-	+																
PID2765	Aqueous	25-Jul-96	Method Blank	25-Jul-96			-	-	-	-	-	-	J																
ER-POL	Aqueous	08-Aug-96	Equipment Rinsate	14-Aug-96			-	-	-	-	-	-	-		+														
AB-POL	Aqueous	08-Aug-96	Ambient Blank	14-Aug-96			-	-	-	-	-	-	-		+														
PID3041	Aqueous	18-Aug-96	Method Blank	18-Aug-96			-	-	-	-	-	-	J																
GCM3127	Aqueous	22-Aug-96	Method Blank		22-Aug-96	23-Aug-96									J	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCM3204	Aqueous	28-Aug-96	Method Blank		28-Aug-96	08-Sep-96									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCM3264	Soil/Solid	06-Sep-96	Method Blank		06-Sep-96	11-Sep-96									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCM3284	Soil/Solid	07-Sep-96	Method Blank		07-Sep-96	12-Sep-96									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCM3321	Soil/Solid	08-Sep-96	Method Blank		08-Sep-96	13-Sep-96									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCM3331	Soil/Solid	09-Sep-96	Method Blank		09-Sep-96	14-Sep-96									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GCM3350	Soil/Solid	10-Sep-96	Method Blank		10-Sep-96	15-Sep-96									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PID3438	Aqueous	16-Sep-96	Method Blank	16-Sep-96			-	-	-	-	-	-	-																
PID3450	Aqueous	16-Sep-96	Method Blank	16-Sep-96			-	-	-	-	-	-	-																
PID3413	Aqueous	16-Sep-96	Method Blank	16-Sep-96			-	-	-	-	-	-	-																
EQ BLANK1	Aqueous	30-Sep-96	Equipment Blank	11-Oct-96	05-Oct-96	07-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQ BLANK2	Aqueous	01-Oct-96	Equipment Blank	11-Oct-96	04-Oct-96	07-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TB100196	Aqueous	01-Oct-96	Trip Blank	10-Oct-96			-	-	+	-	-	-	-																
ER100296	Aqueous	02-Oct-96	Equipment Rinsate	16-Oct-96	08-Oct-96	09-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TB100296	Aqueous	02-Oct-96	Trip Blank	12-Oct-96			-	-	-	-	-	-	-																
ER100396	Aqueous	03-Oct-96	Equipment Rinsate	17-Oct-96	08-Oct-96	17-Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TB100396	Aqueous	03-Oct-96	Trip Blank	17-Oct-96			-	-	-	-	-	-	-																
ER121096	Aqueous	10-Dec-96	Equipment Rinsate	13-Dec-96	11-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFB121096	Aqueous	10-Dec-96	Ambient Blank	13-Dec-96			-	-	-	-	-	-	-																
TB121096	Aqueous	10-Dec-96	Trip Blank	12-Dec-96			-	-	-	-	-	-	-																
ER121196	Aqueous	11-Dec-96	Equipment Rinsate	13-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AFB121196	Aqueous	11-Dec-96	Ambient Blank	13-Dec-96			-	-	-	-	-	-	-																
TB121196	Aqueous	11-Dec-96	Trip Blank	14-Dec-96			-	-	-	-	-	-	-																
ER121296	Aqueous	12-Dec-96	Equipment Rinsate	13-Dec-96	12-Dec-96	14-Dec-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key blank = not analyzed, (-) = not detected, (J) = detected, below PQL, (+) = detected at or above PQL



SAMPLE NO. BS-GP-01S-A DEPTH: 4-5 FEET DECEMBER 10, 1996	
GUIDANCE VALUE	
ETHYLBENZENE - 1,200	100
TOTAL XYLENES - 1,300	100

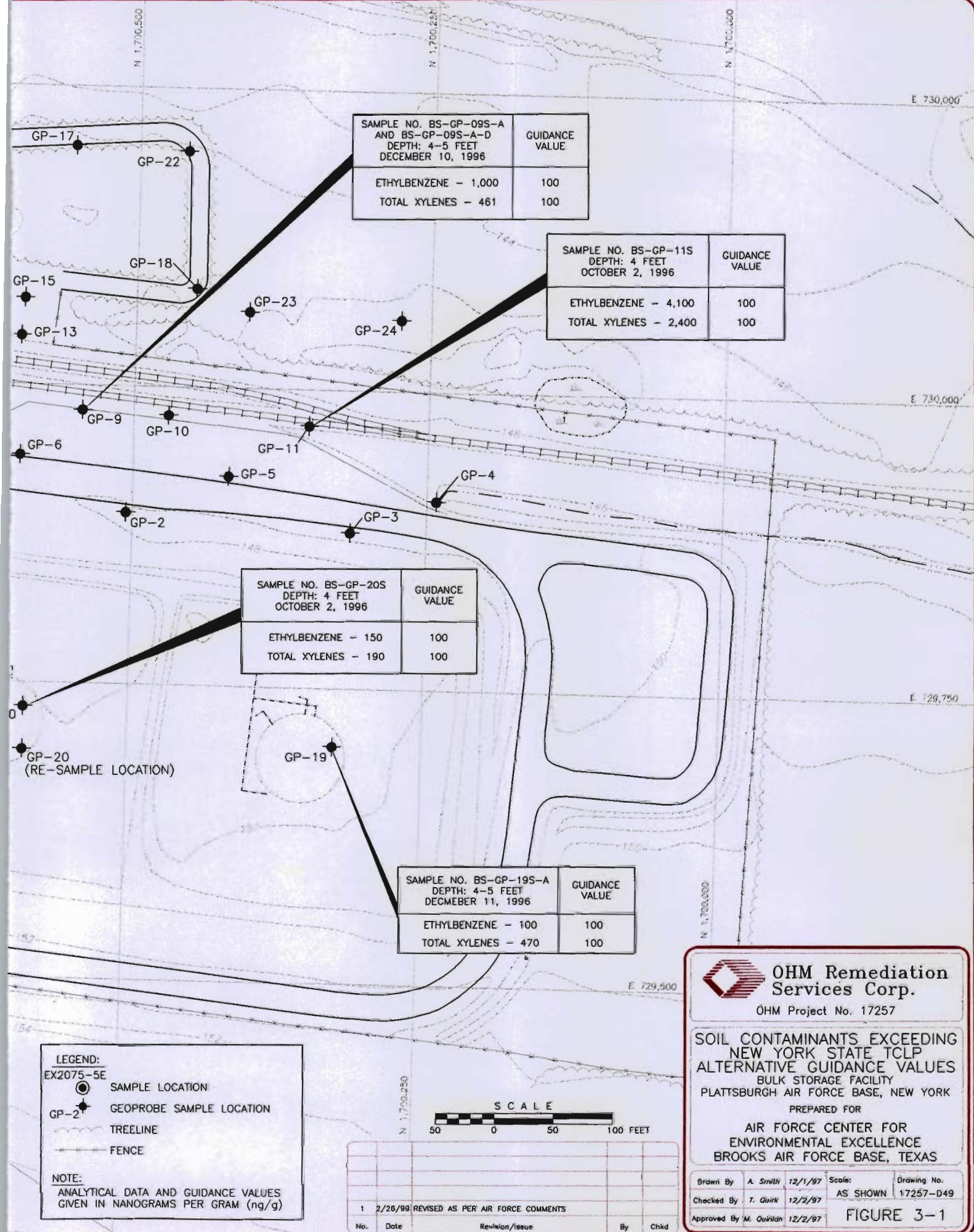
SAMPLE NO. EX2077-2W DEPTH: 5 FEET JULY 12, 1996	
GUIDANCE VALUE	
PHENANTHRENE - 1,262	1,000
FLUORANTHRENE - 1,169	1,000
BENZO(A)ANTHRACENE - 298	0.04
CHRYSENE - 128	0.04
BENZO(B)FLUORANTHRENE - 126	0.04
BENZO(K)FLOURANTHRENE - 47	0.04
BENZO(A)PYRENE - 112	0.04
ETHYLBENZENE - 2,171	100
TOTAL XYLENES - 7,045	100

SAMPLE NO. BS-GP-08S DEPTH: 5 FEET OCTOBER 1, 1996	
GUIDANCE VALUE	
BENZO(A)ANTHRACENE - 240	0.04
BENZO(A)PYRENE - 200	0.04
BENZO(B)FLUORANTHRENE - 320	0.04
CHRYSENE - 190	0.04
TOTAL XYLENES - 150	100

SAMPLE NO. BS-GP-08S-A DEPTH: 3.5-5 FEET DECEMBER 10, 1996	
GUIDANCE VALUE	
ETHYLBENZENE - 2,400	100

REFERENCE:

BASE MAP WAS TAKEN FROM DRAWINGS SUPPLIED BY THE U.S. AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE, BROOKS AIR FORCE BASE, TEXAS.



E 730,250

SAMPLE NO. BS-GP-12W DEPTH: 4 FEET OCTOBER 2, 1996	GROUNDWATER STANDARD
NAPHTHALENE - 13	10
BENZENE - 29	0.7
TOLUENE - 71	5
ETHYLBENZENE - 160	5
TOTAL XYLENES - 2,700	5

SAMPLE NO. BS-GP-14W-A DEPTH: 0.68 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
BENZENE - 2,600	0.7
ETHYLBENZENE - 2,600	5
TOTAL XYLENES - 9,500	5

SAMPLE NO. BS-GP-08W DEPTH: 6 FEET OCTOBER 2, 1996	GROUNDWATER STANDARD
BENZENE - 88	0.7
ETHYLBENZENE - 17	5
NAPHTHALENE - 10	10
TOTAL XYLENES - 140	5

SAMPLE NO. BS-GP-08W-A DEPTH: 2 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
BENZENE - 98	0.7
ETHYLBENZENE - 280	5
TOTAL XYLENES - 804	5

SAMPLE NO. BS-GP-01W DEPTH: 6 FEET SEPTEMBER 30, 1996	GROUNDWATER STANDARD
BENZENE - 2	0.7
ETHYLBENZENE - 5	5




SAMPLE NO. BS-GP-01W-A DEPTH: 2.85 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
ACENAPHTHENE - 25	20
NAPHTHALENE - 34	10

SAMPLE NO. BS-GP-21W DEPTH: 5 FEET OCTOBER 3, 1996	GROUNDWATER STANDARD
TOTAL XYLENES - 17	5

SAMPLE NO. BS-GP-13W DEPTH: 5 FEET OCTOBER 2, 1996	GROUNDWATER STANDARD
ACENAPHTHENE - 39	20
ANTHRACENE - 56	50
BENZO(A)ANTHRACENE - 63	0.002
BENZO(A)PYRENE - 21	0.002
BENZO(B)FLUORANTHENE - 26	0.002
BENZO(K)FLUORANTHENE - 11	0.002
CHRYSENE - 35	0.002
FLUORANTHENE - 100	50
FLUORENE - 100	50
INDENO(1,2,3-CD)PYRENE - 8	0.002
PHENANTHRENE - 100	50
PYRENE - 78	50
BENZO(G,H,I)PERYLENE - 8	0.002
BENZENE - 50	0.7
TOLUENE - 26	5
ETHYLBENZENE - 220	5
TOTAL XYLENES - 220	5

SAMPLE NO. BS-GP-13W-A DEPTH: 4.62 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
BENZENE - 42	0.7
ETHYLBENZENE - 37	5
TOTAL XYLENES - 15	5

LEGEND:

- GP-2  GEOPROBE SAMPLE LOCATION
 TREELINE
 FENCE

NOTE:

ANALYTICAL DATA AND GROUNDWATER STANDARDS
GIVEN IN MICROGRAMS PER LITER (ug/L)

REFERENCE:

BASE MAP WAS TAKEN FROM DRAWINGS SUPPLIED
BY THE U.S. AIR FORCE CENTER FOR ENVIRONMENTAL
EXCELLENCE, BROOKS AIR FORCE BASE, TEXAS.

SAMPLE NO. BS-GP-15W DEPTH: 5 FEET OCTOBER 2, 1996	GROUNDWATER STANDARD
TOTAL XYLENES - 6	5

SAMPLE NO. BS-GP-09W DEPTH: 4.5 FEET OCTOBER 2, 1996	GROUNDWATER STANDARD
BENZENE - 3	0.7
ETHYLBENZENE - 17	5
TOTAL XYLENES - 14	5

SAMPLE NO. BS-GP-09W-A DEPTH: 0.95 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
BENZENE - 29	0.7
ETHYLBENZENE - 80	5
TOTAL XYLENES - 20	5
TOLUENE - 13	5

SAMPLE NO. BS-GP-10W DEPTH: 4.5 FEET OCTOBER 2, 1996	GROUNDWATER STANDARD
BENZENE - 16	0.7
ETHYLBENZENE - 15	5
TOTAL XYLENES - 150	5

SAMPLE NO. BS-GP-10W-A DEPTH: 0.72 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
BENZENE - 87	0.7
ETHYLBENZENE - 120	5
TOTAL XYLENES - 580	5

SAMPLE NO. BS-GP-11W DEPTH: 4.5 FEET OCTOBER 2, 1996	GROUNDWATER STANDARD
BENZENE - 130	0.7
TOTAL XYLENES - 1,400	5

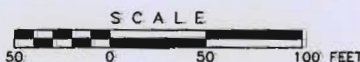
SAMPLE NO. BS-GP-11W-A DEPTH: 0.79 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
BENZENE - 70	0.7
ETHYLBENZENE - 6	5
TOTAL XYLENES - 332	5

SAMPLE NO. BS-GP-20W DEPTH: 5 FEET OCTOBER 3, 1996	GROUNDWATER STANDARD
BENZO(A)ANTHRACENE - 8	0.002
NAPHTHALENE - 40	10
TOLUENE - 170	5
ETHYLBENZENE - 220	5
TOTAL XYLENES - 2,000	5

SAMPLE NO. BS-GP-19W DEPTH: 5 FEET OCTOBER 3, 1996	GROUNDWATER STANDARD
BENZENE - 2	0.7
ETHYLBENZENE - 340	5
TOTAL XYLENES - 1,500	5

SAMPLE NO. BS-GP-19W-A DEPTH: 0.86 FEET DECEMBER 11, 1996	GROUNDWATER STANDARD
ETHYLBENZENE - 39	5
TOTAL XYLENES - 172	5

SAMPLE NO. BS-GP-20W-1 DEPTH: 1.8 FEET DECEMBER 12, 1996	GROUNDWATER STANDARD
TOTAL XYLENES - 21	5



1	2/26/99	REVISED AS PER AIR FORCE COMMENTS		
No.	Date	Revision/Issue	By	Chkd



**OHM Remediation
Services Corp.**

OHM Project No. 17257

**GROUNDWATER CONTAMINANTS
EXCEEDING NEW YORK STATE
CLASS GA GROUNDWATER STANDARDS**
BULK STORAGE FACILITY
PLATTSBURGH AIR FORCE BASE, NEW YORK

PREPARED FOR

**AIR FORCE CENTER FOR
ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE, TEXAS**

Drawn By: A. Smith	12/1/97	Scale:	Drawing No.
Checked By: T. Quirk	12/2/97	AS SHOWN	17257-D50
Approved By: M. Quinlan	12/2/97		FIGURE 3-2

4.0 CONSTRUCTION CERTIFICATION

To the best of our knowledge and belief, closure of the BFSA was completed in accordance with the NYSDEC approved OHM Work Plan (OHM, 1996c) and the NYSDEC STARS Memo #1, as part of the overall removal/closure program of the Aircraft Refueling System at the PAFB, New York.



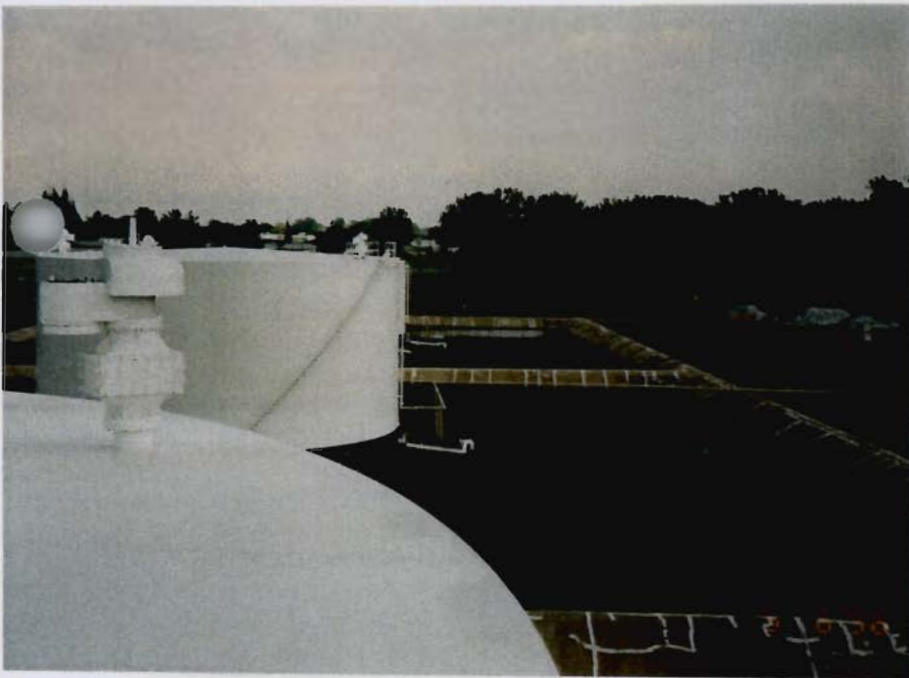
Signature: _____

David A. Brown
David A. Brown, P.E.

Date: _____

12 MAY 2000

APPENDIX A
SITE PHOTOGRAPHS



PHOTOGRAPHIC LOG
PARSONS ENGINEERING SCIENCE, INC.

PROJECT: Demolition at Bulk Storage Area
 LOCATION: Plattsburgh Air Force Base
 PROJECT #: 727307
 CLIENT: OHM/AFCEE

Description: Previous aboveground storage tanks
at bulk storage area

Photo By: CRA



Description: Pumphouse demolition at bulk
storage area

Photo By: CRA



Description: Pumphouse demolition at bulk
storage area

Photo By: CRA



PHOTOGRAPHIC LOG
PARSONS ENGINEERING SCIENCE, INC.

PROJECT: Demolition at Bulk Storage Area
LOCATION: Plattsburgh Air Force Base
PROJECT #: 727307
CLIENT: OHM/AFCEE

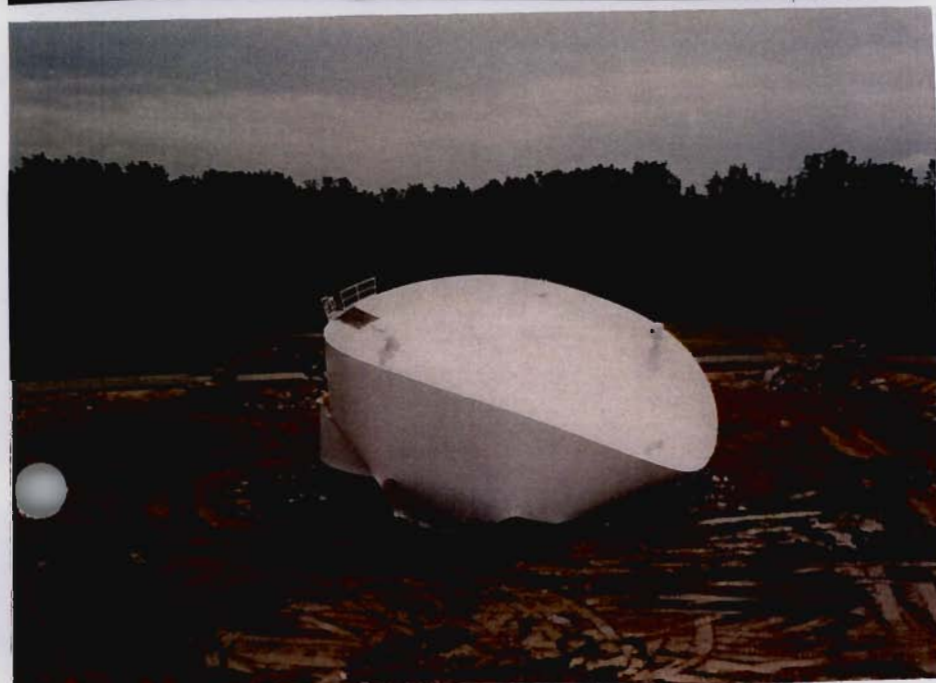
Description: Tank demolition at Bulk Storage Area

Photo By: CRA



Description: Tank demolition at Bulk Storage Area

Photo By: CRA



Description: Tank demolition at Bulk Storage Area

Photo By: CRA



PHOTOGRAPHIC LOG
PARSONS ENGINEERING SCIENCE, INC.

PROJECT: Demolition at Bulk Storage Area
LOCATION: Plattsburgh Air Force Base
PROJECT #: 727307
CLIENT: OHM/AFCEE

Description: Demolition of retainment system

Photo By: _____



Description: Demolition of retainment system

Photo By: CRA



Description: Site restoration

Photo By: CRA



PHOTOGRAPHIC LOG
PARSONS ENGINEERING SCIENCE, INC.

PROJECT: OWS Removal at Bulk Storage Area
LOCATION: Plattsburgh Air Force Base
PROJECT #: 727307
CLIENT: OHM/AFCEE

Description: Vent pipe prior to excavating oil water separator

Photo By: CRA



Description: Partial excavation of oil water separator

Photo By: CRA



Description: Removal of oil water separator

Photo By: CRA



PHOTOGRAPHIC LOG
PARSONS ENGINEERING SCIENCE, INC.

PROJECT: OWS Removal at Bulk Storage Area
LOCATION: Plattsburgh Air Force Base
PROJECT #: 727307
CLIENT: OHM/AFCEE

Description: Partial excavation of Port Henry
oil water separator

Photo By: CRA



Description: Excavated Port Henry oil water
separators

Photo By: CRA

APPENDIX B
AST AND OWS CLOSURE REPORTS

B.1 AST-2073, AST-2075, AND AST-2077

B.2 OWS-2068 (PORT DOUGLAS OWS)

B.3 OWS-2073 (BULK STORAGE AREA OWS)

B.1 AST-2073, AST-2075, AND AST-2077

AST-2073, AST-2075 AND AST-2077 CLOSURE REPORT
OHM REMEDIATION SERVICES CORP.
PLATTSBURGH AIR FORCE BASE
Delivery Order 0003

OHM Project No. 17257

Date: 11/08/97

AST Nos.: AST-2073, -2075 and -2077

AST Size: Two 1.26 Million-Gallon and One 0.84 Million-Gallon

AST Location: Bulk Fuel Storage Area

TABLE OF CONTENTS

Data Summary Sheet

- Site Location
- AST Information
- Sources of Contamination
- Site Geology
- Soil Quality Analytical Data
- Groundwater Quality Analytical Data

Attachment I - Sampling and Analysis Site Reports

- Analytical Results (Soil)
- Analytical Results (Liquid)
- Split Sample Analytical Results - Not Applicable
- Soil Sample Collection Log
- Sample Location Map (Site Map)

Comments:

Two 1.26 million-gallon above ground storage tanks (ASTs) (ASTs 2075 and 2077) and one 0.84 million-gallon AST (AST 2073) and their associated piping were removed from the Bulk Fuel Storage Area (BFSA). Between 02/23/96 and 03/04/96, the AST feeder pipelines were drained, pigged, and cleaned. The three ASTs had been previously emptied and cleaned prior to OHM's arrival on site. Each AST was surrounded by concrete-surfaced earthen berms forming a secondary containment area. All of the ASTs were installed on concrete foundation pads, and compacted bentonite clay floored each secondary containment area. In June 1996, the ASTs were removed and the steel tanks were cut up for recycling. The AST pipelines were coated with asbestos; therefore, the pipeline removal was handled as an asbestos abatement. Removal of the AST pipelines was completed in July 1996.

Prior to the removal of these tanks, soil samples were collected to determine if past repainting activities had contaminated the soil surrounding the ASTs with lead. On 03/26/96, eight grab soil samples were collected from the AST 2075 secondary containment area just below the ground surface. On 04/03/96 and 04/10/96, additional samples were collected from the same eight locations to determine if lead were present in the soil beneath the layer of bentonite. All 16 samples were sent off site for total lead analysis. Lead was not detected in any sample at concentrations above the 400 $\mu\text{g/g}$ screening level, which was the lead concentration action level established for remediation of the two small arms ranges on Base.

Between 07/11/96 and 07/24/96, a series of headspace samples were collected during the AST pipeline removal. A total of 84 samples were collected for headspace screening using a portable PID instrument. Soil with headspace readings above 20 ppm was excavated and transported to the on-site soil treatment cell. On 07/12/96, one grab soil sample was collected from the AST 2075 pipeline removal trench and a second soil sample was collected from the AST 2077 removal trench. Both samples were analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). No VOCs or PAHs were detected in the sample collected from the AST 2075 trench at concentrations above the NYSDEC TCLP Alternative Guidance Values. Three VOCs and seven PAHs were detected in the AST 2077 sample at concentrations above Guidance Values.

On 08/08/96, the four monitoring wells around the BFSA were sampled. Three of the wells are located downgradient of the three former AST locations. The fourth well is located upgradient of the former tanks. The samples were sent off site for VOC and semivolatile organic compound (SVOC) analysis. No compounds were detected at concentrations above the NYSDEC Class GA Groundwater Standards.

After removal of the three ASTs and their associated distribution piping, two Geoprobe® Investigations (09/30/96-10/04/96 and 12/10/96-12/12/96) were performed to delineate the extent of contamination in both the soil and groundwater at the BFSA. The samples were sent off site for VOC and PAH analysis. Six of soil samples contained VOCs at concentrations at or above the Guidance Values while 12 of the groundwater samples contained VOCs at or above the Groundwater Standards. PAHs were detected in one soil sample and five groundwater samples at concentrations equivalent to or above the action levels. The analytical results for the Geoprobe® investigation are presented in Appendix C of the ARS Closure Report.

DATA SUMMARY FOR TECHNICAL REPORT SUBMITTAL

Date: 11/08/97AST Nos.: AST-2073, -2075, -2077 AST Location: Bulk Fuel Storage Area

Street Address: Connecticut Road, Bulk Fuel Storage Area

Plattsburgh AFB, NY 12901

Consultant Information

Consultant Completing Report: Parsons ES

Contact Person and Telephone No: Edward J. Ashton (315) 451-9560

Mailing Address: 290 Elwood Davis Road, Suite 312

Liverpool, NY 13088

Site Location/Description	Yes/No		Yes/No
Municipal water in area ?	<u>Yes</u>	Basements (within 250 feet)?	<u>No</u>
Municipal water supplied to site?	<u>Yes</u>	Water supply wells (within 1,000 feet)?	<u>No</u>
Municipal sewer in area?	<u>Yes</u>	Surface water body (within 1,000 feet)?	<u>Yes</u>
Storm sewer in area?	<u>No</u>		

AST Information

AST Dimension: 67' Dia x 40'L (2073)

73.3'Dia x 40'L (2075 & 2077)

Mat'l of Const.: Tank - Steel Piping - 8" Steel

AST No.	Product Type	<u>AST Condition</u> 0 – Perforated 4 – No Corrosion	Capacity (Gallons)	Quantity Removed (Gallons)	AST Removed Yes/No	<u>Piping Condition</u> 0 - Perforated 4 - No Corrosion	Piping Removed Yes/No
2073	JP-4	4	0.84 million	0.0	Yes	4	Yes
2075	JP-4	4	1.26 million	0.0	Yes	4	Yes
2077	JP-4	4	1.26 million	0.0	Yes	4	Yes

HO = Heating Oil, G= Gasoline, D = Diesel, UG = Unleaded Gas, JP-4 - Jet Fuel

Suspected Sources of Contamination

Two 1.26 million-gallon and one 0.84 million-gallon AST

Eliminated? Yes

Free phase product encountered? Yes _____ Thickness _____ No xx

Contaminated soil encountered? Yes xx Amt. excavated (YD³) ~952 No

Did sample analysis indicate groundwater contamination above NYSDEC Groundwater Standards? Yes*

Did sample analysis indicate attainment of soil cleanup criteria? No

* Please refer to Section 3.6 of the Construction Certification Report, Closure of the Bulk Fuel Storage Area at the Aircraft Refuel System, Volume 1.

DATA SUMMARY FOR TECHNICAL REPORT SUBMITTAL

Site Geology

Depth to bedrock: > 50 feet
 Average depth to groundwater: 2.5 - 6.5 feet
 General groundwater flow direction: East, toward Lake Champlain

Soil Quality Analytical Data

Sample Designation		ARSBSA2075-N5	ARSBSA2075-N10	ARSBSA2075-E5	ARSBSA2075-E10	ARSBSA2075-S5
Date Sampled		03/26/96	03/26/96	03/26/96	03/26/96	03/26/96
Parameters	Method	Concentrations (ppm)				
Total Lead	6010	60	120	10.0	13.0	13.5
Sample Designation		ARSBSA2075-S10	ARSBSA2075-W5	ARSBSA2075-W10	ARSBSA-E5A	ARSBSA-E10A
Date Sampled		03/26/96	03/26/96	03/26/96	04/03/96	04/03/96
Parameters	Method	Concentrations (ppm)				
Total Lead	6010	9.0	16.5	21.0	4.5	9.5
Sample Designation		ARSBSA-S5A	ARSBSA-S10A	ARSBSA-N5A	ARSBSA-N10A	ARSBSA-W5A
Date Sampled		04/03/96	04/03/96	04/10/96	04/10/96	04/10/96
Parameters	Method	Concentrations (ppm)				
Total Lead	6010	6.0	6.0	8.5	5.5	5.0
Sample Designation		ARSBSA-W10A				
Date Sampled		04/10/96				
Parameters	Method	Concentrations (ppm)				
Total Lead	6010	5.5				

DATA SUMMARY FOR TECHNICAL REPORT SUBMITTAL

Site Geology

Depth to bedrock: > 50 feet
 Average depth to groundwater: 2.5 - 6.5 feet
 General groundwater flow direction: East, toward Lake Champlain

Soil Quality Analytical Data

Sample Designation		EX2075-5E	EX2077-2W			
Date Sampled		07/12/96	07/12/96			
Parameters	Method	Concentrations (ppb)				
MTBE	8021	ND	ND			
Benzene	8021	ND	ND			
Trichloroethylene	8021	ND	ND			
Toluene	8021	ND	ND			
Ethylbenzene	8021	ND	2171.4			
Xylenes (total)	8021	ND	7045.3			
Total BTEX	8021	ND	9216.7			
Naphthalene	8270	ND	ND			
Total SVOCs	8270	192	4452			

Groundwater Quality Analytical Data (Monitoring Well Samples)

Sample Designation		MWPOL-1	MWPOL-2	MWPOL-3	MWPOL-4	MWPOL-4D
Date Sampled		08/08/96	08/08/96	08/08/96	08/08/96	08/08/96
Parameters	Method	Concentrations (ppb)				
MTBE	8021	ND	ND	ND	ND	ND
Benzene	8021	ND	ND	ND	ND	ND
Trichloroethylene	8021	ND	ND	ND	ND	ND
Toluene	8021	ND	ND	ND	ND	ND
Ethylbenzene	8021	ND	ND	ND	ND	ND
Xylenes (total)	8021	ND	ND	ND	ND	ND
Total BTEX	8021	ND	ND	ND	ND	ND
Naphthalene	8270	ND	ND	ND	ND	ND
Total SVOCs	8270	19.8	4.6	3.2	3.8	ND

**Sampling & Analysis Site Report
On-Site Laboratory
Plattsburgh AFB - Project #17257**

Site: Bulk Storage Area

Revised Report Date: 11/08/97
Original Report Date: 03/28/96

Sample Collection:

-On 03/26/96, eight grab soil samples were collected from the above ground storage tank (AST) 2075 secondary containment area. Samples ARSBSA2075-N5, -S5, -E5, and -W5 were collected 5 feet away from the tank on the north, south, east, and west sides, respectively. A second sample (ARSBSA2075-N10, -S10, -E10, and -W10) was collected 10 feet away from the tank on each of the four sides. All eight samples were collected beneath a layer of stone from a depth of 6 to 8 inches.

On-Site analysis:

-No samples were analyzed on site.

Off-Site Analysis:

-The samples were shipped to Adirondack Environmental Services for Total Lead analysis by EPA Method 6010.



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CLIENT: OHM Remediation Services

CLIENT'S SAMPLE ID: ARSBSA2075-N5

AES sample #: 960327 B01

Samples taken by: J. Nichols

MATRIX: Soil

Date Sampled: 03/26/96

Date sample received: 03/27/96

Location: Plattsburgh AFB
grab

<u>PARAMETER</u> <u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK</u> <u>REF</u>	<u>TEST</u> <u>DATE</u>
Lead	EPA-6010	60	ug/g	BS-I-1G-70	03/27/96



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CLIENT: OHM Remediation Services
CLIENT'S SAMPLE ID: ARSBSA2075-N10
AES sample #: 960327 B02 Samples taken by: J. Nichols Date Sampled: 03/26/96
MATRIX: Soil Location: Plattsburgh AFB Date sample received: 03/27/96
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	120	ug/g	BS-I-1G-70	03/27/96



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CLIENT: OHM Remediation Services Date Sampled: 03/26/96
CLIENT'S SAMPLE ID: ARSBSA2075-E5 Date sample received: 03/27/96
AES sample #: 960327 B03 Samples taken by: J. Nichols Location: Plattsburgh AFB
MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	10.0	ug/g	BS-I-1G-70	03/27/96



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CLIENT: OHM Remediation Services
CLIENT'S SAMPLE ID: ARSBSA2075-E10
AES sample #: 960327 B04 Samples taken by: J. Nichols Location: Plattsburgh AFB
MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	13.0	ug/g	BS-I-1G-70	03/27/96



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CLIENT: OHM Remediation Services Date Sampled: 03/26/96
CLIENT'S SAMPLE ID: ARSBSA2075-S5 Date sample received: 03/27/96
AES sample #: 960327 B05 Samples taken by: J. Nichols Location: Plattsburgh AFB
MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	13.5	ug/g	BS-I-1G-70	03/27/96



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CLIENT: OHM Remediation Services Date Sampled: 03/26/96
CLIENT'S SAMPLE ID: ARSBSA2075-S10 Date sample received: 03/27/96
AES sample #: 960327 B06 Samples taken by: J. Nichols Location: Plattsburgh AFB
MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	9.0	ug/g	BS-I-1G-70	03/27/96



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CLIENT: OHM Remediation Services
CLIENT'S SAMPLE ID: ARSBSA2075-W5
AES sample #: 960327 B07
Samples taken by: J. Nichols
MATRIX: Soil
Date Sampled: 03/26/96
Date sample received: 03/27/96
Location: Plattsburgh AFB
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	16.5	ug/g	BS-I-1G-70	03/27/96



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CLIENT: OHM Remediation Services Date Sampled: 03/26/96
CLIENT'S SAMPLE ID: ARSBSA2075-W10 Date sample received: 03/27/96
AES sample #: 960327 B08 Samples taken by: J. Nichols Location: Plattsburgh AFB
MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	21.0	ug/g	BS-I-1G-70	03/27/96

APPROVED BY: Vera Dand
Report date: 03/28/96

Soil Sample Collection Log
Plattsburgh AFB - Project # 17257/17499

Pg. 1 of 2

Date: 3-26-96

Samplers: JW/MB

Weather: Sunny/45°

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Sample Description	# of Bottles
ARSBSA2075-W5	¹¹⁴¹ 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz
ARSBSA2075-W10	¹¹⁴² 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz
ARSBSA2075-E5	¹¹²⁶ 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz
ARSBSA2075-E10	¹¹²⁷ 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz
ARSBSA2075-S5	¹¹³⁰ 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz
ARSBSA2075-R10	¹¹³¹ 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz
ARSBSA2075-W5	¹¹³⁶ 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz
ARSBSA2075-W10	¹¹³⁷ 3-26-96	N/A	G	6"-8"	N/A	Brn/Gry mud	1 X 4oz

Ref. Pt. _____ :

Ref. Pt. _____ :

Map Attached: Yes No

Sample Type: Screening Confirmation Disposal/Characterization

Split sample Collected: Yes No

Laboratory Destination: Adirondack COC # 174054 Airbill # 931716831

Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs Other Total Pb

Relinquished by (dd/tt): Jonathan Z. Thibault ³⁻²⁶⁻⁹⁶₁₆₄₅ Received by (dd/tt): _____

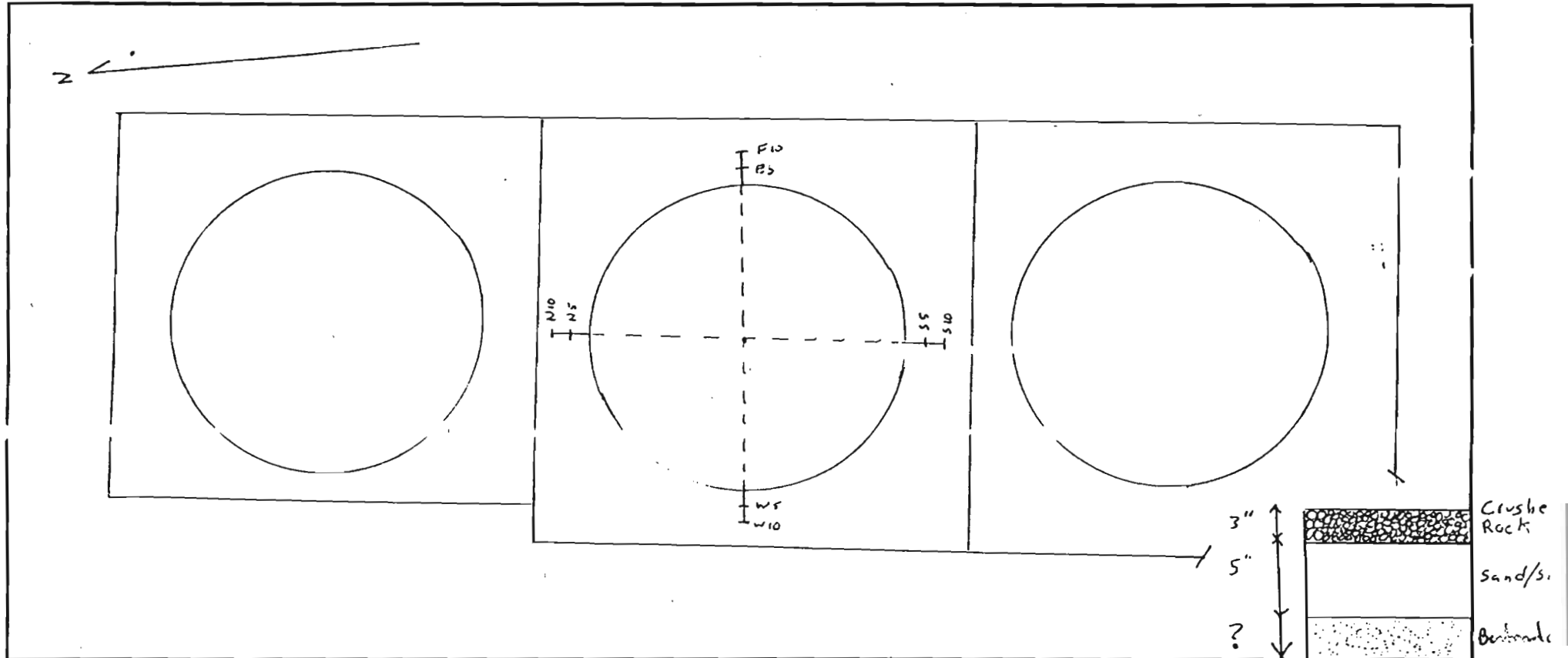
Relinquished by (dd/tt): _____ Received by (dd/tt): _____

Sample Location Map Plattsburgh Air Force Base - Project Numbers 17257 and 17499

Date: 3-26-96

Site Name: ARSBSA-2075

Page 2 of 2



Comments/Observations:

- Samples taken at 5' & 10' from base of tank
- Sample depth was between 6" & 8" from Rock surface
- Not to Scale

Prepared by:

V.L.N. 7860

CHAIN-OF-CUSTODY RECORD

174054

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PROJECT NAME Plattsburgh A.F.B.		PROJECT LOCATION Plattsburgh, NY		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> AES # </div>			
PROJ. NO. 17257	PROJECT CONTACT Mike Quinlan	PROJECT TELEPHONE NO. 518-562-5524						
CLIENT'S REPRESENTATIVE Dave Farnsworth		PROJECT MANAGER/SUPERVISOR Ken Kerkonen						
ITEM NO.	SAMPLE NUMBER	DATE	TIME			COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
1	ARSBSA2075-H5	3-26-96	1141		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	960327001
2	ARSBSA2075-H10	3-26-96	1142		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	802
3	ARSBSA2075-B5	3-26-96	1126		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	803
4	ARSBSA2075-H10	3-26-96	1127		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	804
5	ARSBSA2075-S5	3-26-96	1130		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	805
6	ARSBSA2075-S10	3-26-96	1131		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	806
7	ARSBSA2075-U5	3-26-96	1136		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	807
8	ARSBSA2075-W10	3-26-96	1137		X	Grey/Brown mud from ARSBSA Tank 2075-JP4	1	808
9								
10								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-8	Jonathan L. Nichols	Fed EX Air B.Y. 9317168313	3-26-96	1610	- 24 hour TAT
2						- Temp blank included
3						
4			M. Kerkonen	3/27/96	9:38	SAMPLER'S SIGNATURE <i>Jonathan L. Nichols</i>

**Sampling & Analysis Site Report
On-Site Laboratory
Plattsburgh AFB - Project #17257**

Site: Bulk Storage Area

Revised Report Date: 11/08/97
Original Report Date: 04/11/96

Sample Collection:

-On 04/03/96, grab soil samples were collected from the above ground storage tank (AST) 2075 secondary containment area. Two samples (ARSBSA-E5A and ARSBSA-E10A) were collected from the east side of AST 2075 and two samples (ARSBSA-S5A and ARSBSA-S10A) were collected from the south side. These four samples were collected beneath the bentonite layer from a depth of 2 feet.

-On 04/10/96, four additional grab samples were collected from the AST 2075 secondary containment area. Two samples (ARSBSA-N5A and ARSBSA-N10A) were collected from the north side of AST 2075 and two samples (ARSBSA-W5A and ARSBSA-W10A) were collected from the west side. The layer of bentonite was thicker in these areas. Therefore, the depths of these samples ranged from 3 to 4 feet.

On-Site analysis:

-No samples were analyzed on site.

Off-Site Analysis:

-The samples were shipped to Adirondack Environmental Services for Total Lead analysis by EPA Method 6010.



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CLIENT: OHM Remediation Services

Date Sampled: 04/03/96

CLIENT'S SAMPLE ID: ARSBSA-E5A

Date sample received: 04/11/96

AES sample #: 960411 A01

Samples taken by: Client

Location: Plattsburgh AFB

MATRIX: Sludge

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	4.5	ug/g	BS-I-1G-81	04/11/96



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CLIENT: OHM Remediation Services

Date Sampled: 04/03/96

CLIENT'S SAMPLE ID: ARSBSA-E10A

Date sample received: 04/11/96

AES sample #: 960411 AO2

Samples taken by: Client

Location: Plattsburgh AFB

MATRIX: Sludge

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	9.5	ug/g	BS-I-1G-81	04/11/96



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CLIENT: OHM Remediation Services

Date Sampled: 04/03/96

CLIENT'S SAMPLE ID: ARSESA-S5A

Date sample received: 04/11/96

AES sample #: 960411 A03

Samples taken by: Client

Location: Plattsburgh AFB

MATRIX: Sludge

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	6.0	ug/g	BS-I-1G-81	04/11/96



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CLIENT: OHM Remediation Services

Date Sampled: 04/03/96

CLIENT'S SAMPLE ID: ARSBSA-S10A

Date sample received: 04/11/96

AES sample #: 960411 A04

Samples taken by: Client

Location: Plattsburgh AFB

MATRIX: Sludge

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	6.0	ug/g	BS-I-1G-81	04/11/96



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CLIENT: OHM Remediation Services

CLIENT'S SAMPLE ID: ARSBSA-W5A

AES sample #: 960411 A05

Samples taken by: Client

MATRIX: Sludge

Date Sampled: 04/10/96

Date sample received: 04/11/96

Location: Plattsburgh AFB
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Lead	EPA-6010	5.0	ug/g	BS-I-1G-81	04/11/96

Soil Sample Collection Log
Plattsburgh AFB - Project # 17257/17499

Pg. 2 of 3

Date: 4-10-96

Site: AR5BSA-2075

Weather: Rain/snow/32

Samplers: JN

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
AR5BSA-N5A	1145	N/A	6	3'	N/A	N/A	Grey Mud	1 x 4oz
AR5BSA-N10A	1307	N/A	6	3'	N/A	N/A	Grey Mud	1 x 4oz
AR5BSA-W5A	1120	N/A	6	4'	N/A	N/A	Grey mud	1 x 4oz
AR5BSA-W10A	1100	N/A	6	4'	N/A	N/A	Grey mud	1 x 4oz

Ref. Pt. _____ :

Ref. Pt. _____ :

Map Attached: ☒ Yes ☐ No

Sample Type: Screening Confirmation Disposal/Characterization

Split sample Collected: Yes ☐ No ☒

Laboratory Destination: Adirondack COC # 174037 Airbill # 9317168906

Duplicate Collected: Yes ☒ No ☐ Rinsate Collected: Yes ☐ No ☒

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs ☒ Other Test / lead (Pb)

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

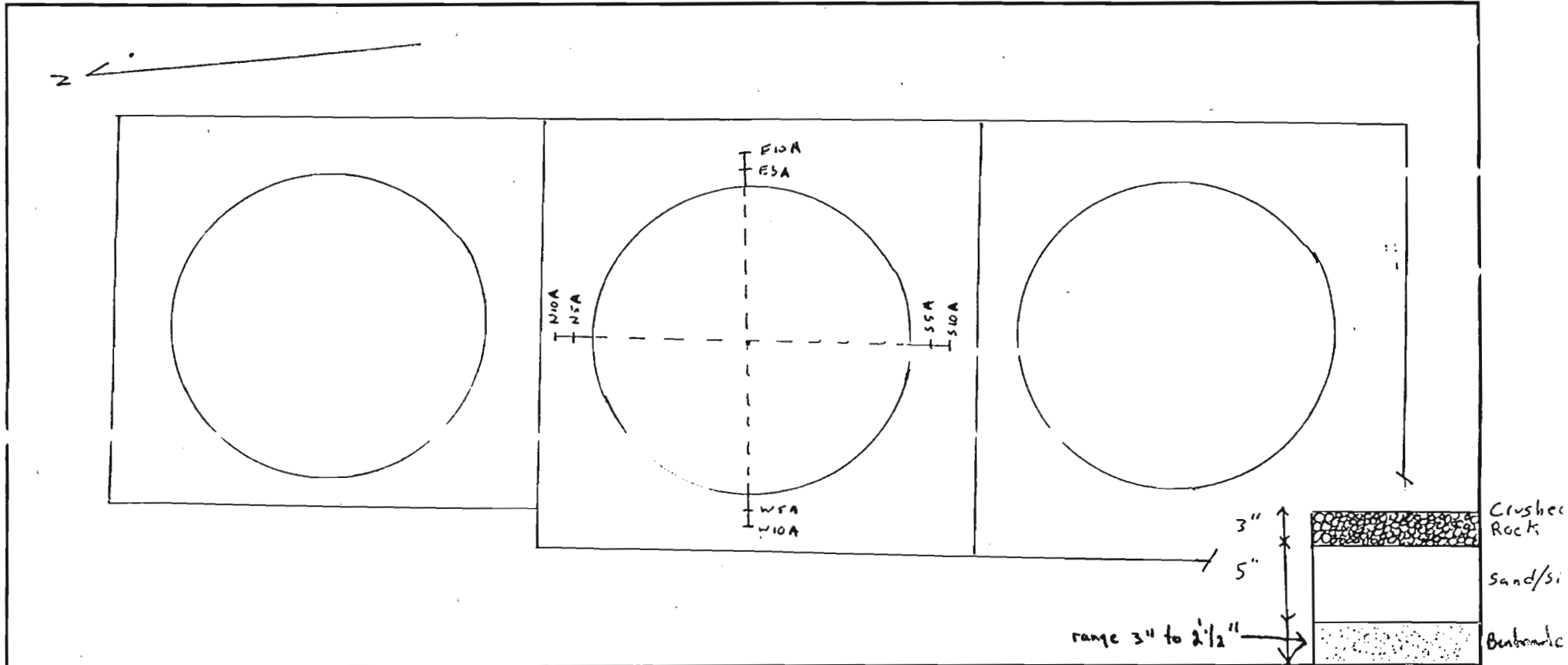
Relinquished by (dd/tt): _____ Received by (dd/tt): _____

Sample Location Map
Plattsburgh Air Force Base - Project Numbers 17257 and 17499

Date: 04/10/96

Site Name: ARSBSA-2075

Page 3 of 3



Comments/Observations:

- Samples taken at 5' & 10' from base of tank
- Samples taken below bentonite layer, Range 3 inches to 2 feet 6 inches
- Not to Scale

Prepared by:

J.L.N. 7860
J.D. II 7967

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0015
Field Technical Service:
Rev. 08/85

174037

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PROJECT NAME <i>Plattsburgh Air Force Base</i>		PROJECT LOCATION <i>Plattsburgh, NY</i>		NUMBER OF CONTAINERS		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS			
PROJ. NO. <i>17257</i>	PROJECT CONTACT <i>Jack Donnell</i>		PROJECT TELEPHONE NO. <i>518-562-3631</i>			<div style="text-align: center; font-size: 2em; transform: rotate(-45deg);">Total Pb</div>													
CLIENT'S REPRESENTATIVE <i>Dave Farnsworth</i>		PROJECT MANAGER/SUPERVISOR <i>Ken Kerkunen</i>																	
ITEM NO.	SAMPLE NUMBER	DATE	TIME														COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
1	AR5BSA-E5A	4-3-96	1035		X	Grey mud - Below Bentonite layer	1240Z	X											
2	AR5BSA-E10A	4-3-96	1000		X	Grey mud - Below Bentonite layer	1240Z	X											
3	AR5BSA-55A	4-3-96	1130		X	Grey mud - Below Bentonite layer	1240Z	X											
4	AR5BSA-S10A	4-3-96	1100		X	Grey mud - Below Bentonite layer	1240Z	X											
5	AR5BSA-W5A	4-10-96	1120		X	Grey mud - Below Bentonite layer	1240Z	X											
6	AR5BSA-W10A	4-10-96	1100		X	Grey mud - Below Bentonite layer	1240Z	X											
7	AR5BSA-N5A	4-10-96	1145		X	Grey mud - Below Bentonite layer	1240Z	X											
8	AR5BSA-N10A	4-10-96	1307		X	Grey mud - Below Bentonite layer	1240Z	X											
9																			
10																			

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-8	Jonathan L. Nichols	Fed. Ex Air bill # 9317168906	4-10-96	1530	- 24 hr. TAT - Temp blank included
2						
3						
4						SAMPLER'S SIGNATURE <i>Jonathan L. Nichols</i>

**Sampling & Analysis Site Report
On-Site Laboratory
Plattsburgh AFB - Project #17257**

Site: Bulk Fuel Storage Area, AST Pipe Removal

Revised Report Date: 12/01/97

Original Report Date: 07/26/96

Sample Collection:

-Between July 11 and July 24, 1996, a series of headspace samples were collected during the removal of the above ground storage tank (AST) pipelines at the Bulk Fuel Storage Area (BFSA). A total of 84 headspace samples were collected. The headspace sampling locations and corresponding photoionization detector (PID) readings are shown on the attached maps.

-On 07/12/96, two grab soil samples were collected from the pipeline removal trenches within the AST berms. One sample (EX2075-5E) was collected within the AST 2075 berm and the other sample (EX2077-2W) was collected within the AST 2077 berm.

On-Site analysis:

-Both soil samples were analyzed for VOCs and PAHs by EPA Methods 8021 and 8270, respectively.

-o-Xylene, which was detected in sample EX2077-2W, was also present in associated method blanks (PID2753 and PID2765).

Off-Site Analysis:

-No samples were shipped off site for analysis.

Revised Report Date: 12/1/97
Original Report Date: 7/26/96

Plattsburgh AFB Analytical Results

SampleID : EX2075-5E RE(8021)

Matrix : Soil/Solid

Site ID : ARSBSAPLA

Project No. : 17257

Date : 7/12/96

Time : 1135

Test Code: 8021 Lab : on-site Description : Volatiles Date Extracted : 7/25/96 Date Analyzed : 7/25/96						Test Code: 8270 Lab : on-site Description : Semivolatiles Date Extracted : 7/16/96 Date Analyzed : 7/16/96					
Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag	Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND		Naphthalene	ng/g	333	200	ND	
Benzene	ng/g	5	14	ND		Acenaphthene	ng/g	333	400	ND	
Trichloroethylene	ng/g	5	700	ND		Fluorene	ng/g	333	1000	ND	
Toluene	ng/g	5	100	ND		Phenanthrene	ng/g	333	1000	ND	
Ethylbenzene	ng/g	5	100	ND		Anthracene	ng/g	333	1000	ND	
m,p-Xylene	ng/g	5	100	ND		Fluoranthene	ng/g	333	1000	103	J
o-Xylene	ng/g	5	100	ND		Pyrene	ng/g	333	1000	89	J
						Benzo(a)anthracene	ng/g	333	0.04	ND	
						Chrysene	ng/g	333	0.04	ND	
						Benzo(b)fluoranthene	ng/g	333	0.04	ND	
						Benzo(k)fluoranthene	ng/g	333	0.04	ND	
						Benzo(a)pyrene	ng/g	333	0.04	ND	
						Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
						Dibenz(a,h)anthracene	ng/g	333	1000	ND	
						Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
						Total PAHs	ng/g			192	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
RE = ID suffix for re-extraction/re-analysis
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 12/1/97
Original Report Date: 7/26/96

Plattsburgh AFB Analytical Results

SampleID : EX2077-2W RE(8021/8270)

Matrix : Soil/Solid

Site ID : ARSBSAPLA

Project No. : 17257

Date : 7/12/96

Time : 1140

Test Code: 8021

Lab : on-site

Description : Volatiles

Date Extracted : 7/24/96

Date Analyzed : 7/24/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	1000	1000	ND	D
Benzene	ng/g	125	14	ND	D
Trichloroethylene	ng/g	125	700	ND	D
Toluene	ng/g	125	100	ND	D
Ethylbenzene	ng/g	125	100	2171.4	#D
m,p-Xylene	ng/g	125	100	5666.7	#D
o-Xylene	ng/g	125	100	1378.6	#DB

Test Code: 8270

Lab : on-site

Description : Semivolatiles

Date Extracted : 7/18/96

Date Analyzed : 7/19/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	ND	
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	128	J
Phenanthrene	ng/g	333	1000	1262	#
Anthracene	ng/g	333	1000	225	J
Fluoranthene	ng/g	333	1000	1169	#
Pyrene	ng/g	333	1000	957	
Benzo(a)anthracene	ng/g	333	0.04	298	#J
Chrysene	ng/g	333	0.04	128	#J
Benzo(b)fluoranthene	ng/g	333	0.04	126	#J
Benzo(k)fluoranthene	ng/g	333	0.04	47	#J
Benzo(a)pyrene	ng/g	333	0.04	112	#J
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			4452	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
RE = ID suffix for re-extraction/re-analysis

* TCLP Alternative Guidance Values obtained from the Stars Memo #1

indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 12/1/97
Original Report Date: 7/26/96

Plattsburgh AFB Analytical Results - Blanks

Blank ID : PID2753

QC Batch : NA

Test : 8021 Lab : on-site
Matrix : Aqueous Units : ug/l
Date Extracted : 7/24/96 Date Analyzed : 7/24/96

Parameter	Result	Flag	DetectionLimit
MTBE	ND		40
Benzene	ND		5
Trichloroethylene	ND		5
Toluene	ND		5
Ethylbenzene	ND		5
m,p-Xylene	ND		5
o-Xylene	10.47		5

PID = ID prefix for a volatile method blank GCM = ID prefix for a semivolatile method blank TB = ID prefix for a trip blank
J = estimated value is below the practical quantitation limit and above the method detection limit ug/l = ppb ng/g = ppb NA = not applicable

Revised Report Date: 12/1/97
Original Report Date: 7/26/96

Plattsburgh AFB Analytical Results - Blanks

Blank ID : PID2765

QC Batch : NA

Test : 8021 Lab : on-site
Matrix : Aqueous Units : ug/l
Date Extracted : 7/25/96 Date Analyzed : 7/25/96

Parameter	Result	Flag	DetectionLimit
MTBE	ND		40
Benzene	ND		5
Trichloroethylene	ND		5
Toluene	ND		5
Ethylbenzene	ND		5
m,p-Xylene	ND		5
o-Xylene	.68	J	5

PID = ID prefix for a volatile method blank GCM = ID prefix for a semivolatile method blank TB = ID prefix for a trip blank
J = estimated value is below the practical quantitation limit and above the method detection limit ug/l = ppb ng/g = ppb NA = not applicable

Soil Sample Collection Log
Plattsburgh AFB - Project # 17257/17499

Date: 7-12-96

Site: Bulk Storage (2073, 2075, 2077)

Pg. 1 of 2

Weather: Sunny 175°

Samplers: NJ

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
EX2075-5E	1135	ND	G	3'			Brown Sandy Soil	1x 4oz 2x 40ml
EX2077-2W	1140	5807ppm	G	3'			Brown/Grey Soil	1x 4oz 2x 40ml

Map Attached: Yes No

-Reference Points: Yes No
 -Head Space Readings: Yes No

Sample Type: Screening Confirmation Disposal/Characterization
 Requested Analysis: VOCs SVOCs Other: _____
 Split sample Collected: Yes No
 Laboratory Destination: On Site COC # _____ Airbill # _____
 Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs Cooler Temperature: _____
 Relinquished by (dd/tt): Matt Jones 7-12-96 1230 Received by (dd/tt): Marty Jockisch 7/12/96 1150



Page 1 of 3

Proj. No. 17257	Client AFCEE	Location Bulk Storage	Subject Headspace Sampling
Preparer's Initials NHJ	Date 7-19-96	Reviewer's Initials	Date
Preparer's Initials		Approver's Initials	Date

PID READING

BERM 2073

- ① 18 ppm
- ② 10 ppm
- ③ 4 ppm
- ④ NO
- ⑤ NO
- ⑥ NO
- ⑦ NO
- ⑧ NO
- ⑨ NO

BERM 2075

- ① 36 ppm
- ② 25 ppm
- ③ 40 ppm
- ④ 36 ppm
- ⑤ 68 ppm
- ⑥ 71 ppm
- ⑦ 5910 ppm
- ⑧ 3020 ppm
- ⑨ 3221 ppm
- ⑩ 735 ppm
- ⑪ 305 ppm
- ⑫ 460 ppm
- ⑬ 5100 ppm
- ⑭ 3310 ppm
- ⑮ 2200 ppm
- ⑯ 5850 ppm
- ⑰ 5210 ppm
- ⑱ 5315 ppm
- ⑲ NO
- ⑳ NO
- ㉑ NO
- ㉒ NO
- ㉓ NO
- ㉔ 12 ppm

BERM 2077

- ① NO
- ② NO
- ③ NO
- ④ NO
- ⑤ NO
- ⑥ NO
- ⑦ 245 ppm
- ⑧ 580 ppm
- ⑨ 420 ppm
- ⑩ 52 ppm
- ⑪ 148 ppm
- ⑫ 98 ppm
- ⑬ 126 ppm
- ⑭ 157 ppm
- ⑮ 84 ppm

BERM 2073

BERM 2075

BERM 2077

ROAD

1
2
3

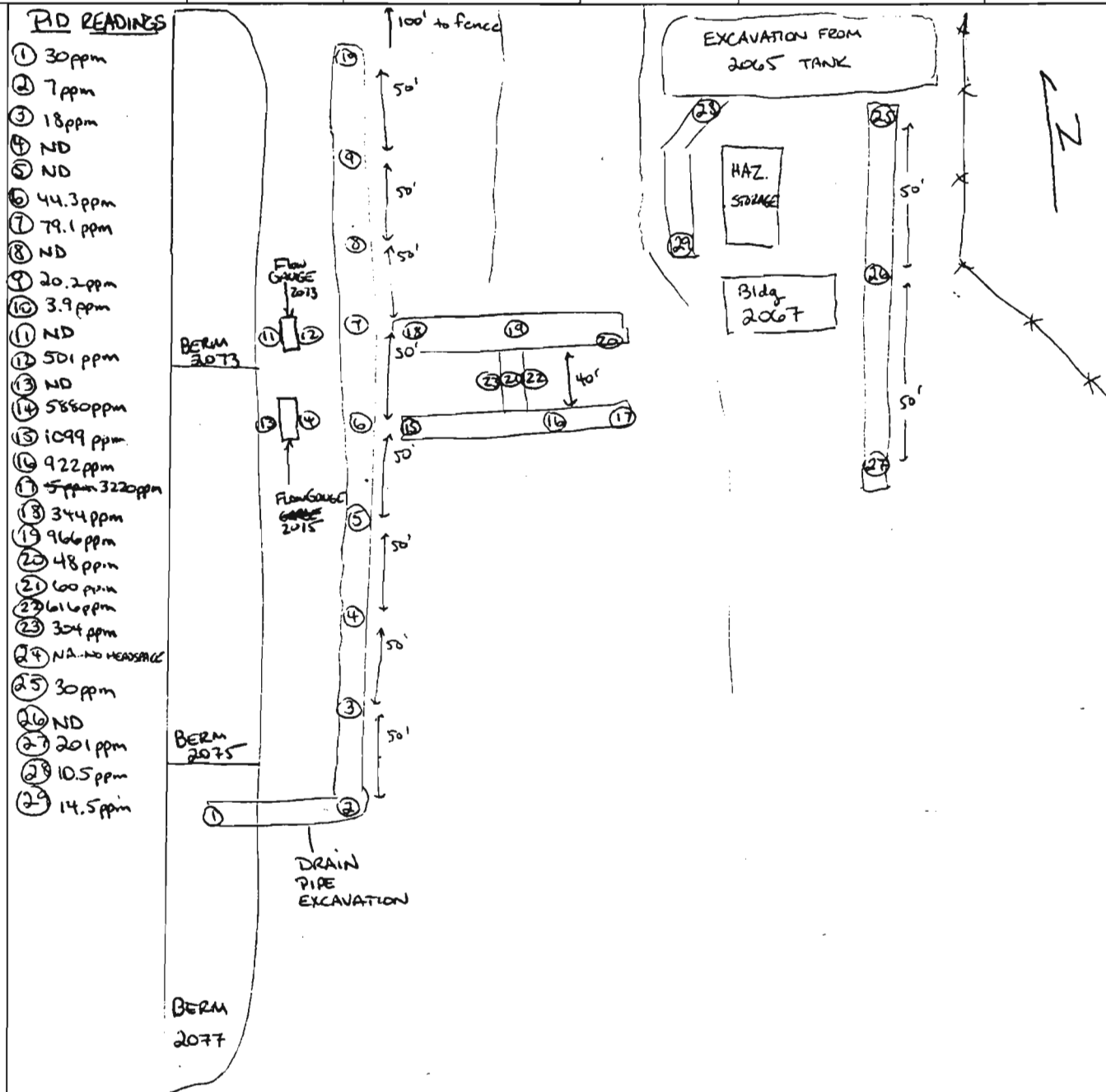
COMMENTS

-Not drawn to scale

* Headspace in BERM 2075 (⑰) was sample location for EX 2075-SE

* +headspace location for EX 2077-2W (Headspace ⑪)

Proj. No. 17257	Client AFCEE	Location BULK STORAGE	Subject HEADSPACE
Preparer's Initials MHJ	Date 7-19-96	Reviewer's Initials	Date
Approver's Initials		Date	



COMMENTS

∴ Not drawn to scale

x — x — x fence

- Circled numbers denote headspace locations



OHM Remediation
Services Corp.

COMPUTATION SHEET

Form No. 0048
Midwest Tech. Servs.
Rev. 08/89

Page 3 of 3

Proj. No. 17257	Client AFCEE	Location Bulk Storage	Subject Headspace Sampling		
Preparer's Initials MHT	Date 7-23-96	Reviewer's Initials	Date	Approver's Initials	Date

PID READINGS

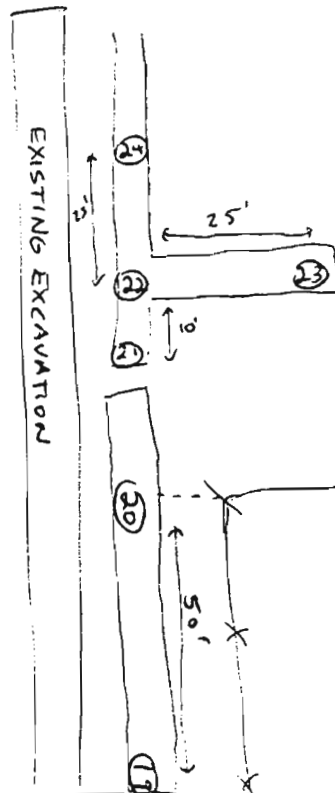
- (17) 5,315 ppm
- (18) 311 ppm
- (19) 3701 ppm
- (20) 3270 ppm
- (21) 660 ppm
- (22) 3580 ppm
- (23) 2880 ppm
- (24) 865 ppm

BERM 2073

BERM 2075

BERM 2077

ROAD



COMMENTS

Not drawn to scale
Circled numbers represent headspace locations



Volatiles

ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 3 of 3

DATE : Aug 15, 1996

LAB SAMPLE ID : 28735

OHM Remediation Services

SAMPLE SOURCE	:	PLATTSBURGH, NY
ORIGIN	:	MWPOL-1
DESCRIPTION	:	GRAB, PAFB #17257
SAMPLED ON	:	08/08/96 by CLIENT
DATE RECEIVED	:	08/09/96
P.O. NO.	:	LP43082

PID
ELCD

103
61

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

LAB DIRECTOR

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

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Page 2 of 3

LAB SAMPLE ID : 28736

DATE Aug 13, 1996

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-2
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

4-Chloro-3-Methylphenol	ND<12
2-Methylnaphthalene	ND<6
Hexachlorocyclopentadiene	ND<6
2,4,6-Trichlorophenol	ND<6
2,4,5-Trichlorophenol	ND<6
2-Chloronaphthalene	ND<6
2-Nitroaniline	ND<24
Dimethyl Phthalate	ND<6
Acenaphthylene	ND<6
2,6-Dinitrotoluene	ND<6
3-Nitroaniline	ND<24
Acenaphthene	ND<6
2,4-Dinitrophenol	ND<24
Dibenzofuran	ND<6
2,4-Dinitrotoluene	ND<6
4-Nitrophenol	ND<24
Diethyl Phthalate	ND<6
Fluorene	ND<6
4-Chlorophenyl phenyl ether	ND<6
4-Nitroaniline	ND<24
2-Methyl-4,6-Dinitrophenol	ND<24
1,2-Diphenylhydrazine	ND<6
n-Nitrosodiphenylamine	ND<6
Azobenzene	ND<6
4-Bromophenyl phenyl ether	ND<6
Hexachlorobenzene	ND<6
Pentachlorophenol	ND<24
Phenanthrene	ND<6
Anthracene	ND<6
Di-n-Butyl Phthalate	1.7 J
Fluoranthene	ND<6
Benzidine	ND<24
Pyrene	ND<6
Butyl benzyl phthalate	ND<6
Benzo(a)anthracene	ND<6
3,3-Dichlorobenzidine	ND<12
Chrysene	ND<6

QC

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Approved by:

LAB DIRECTOR

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Page 3 of 3

DATE : Aug 15, 1996

LAB SAMPLE ID : 28736

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-2
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

PID 105
ELCD 56

QC

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Page 1 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28737

OHM Remediation Services
Greg Guimond
P.O. Box 2202
Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-3
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

BNA Extractables
Method : SW846/8270/3510
Compounds Detected

Analyst : PDB
Units : UG/L
Results

Notebook Reference : 94-249-2405
Date Analyzed : 08/12/96
Date Extracted : 08/09/96

n-Nitrosodimethylamine	ND<5
Aniline	ND<5
Bis(2-chloroethyl)ether	ND<5
Phenol	ND<5
2-Chlorophenol	ND<5
1,3-Dichlorobenzene	ND<5
1,4-Dichlorobenzene	ND<5
1,2-Dichlorobenzene	ND<5
Benzyl Alcohol	ND<10
bis(2-Chloroisopropylether)	ND<5
2-Methylphenol	ND<5
Hexachloroethane	ND<5
n-Nitrosodi-n-propylamine	ND<5
3-Methylphenol/4-Methylphenol	ND<5
Nitrobenzene	ND<5
Isophorone	ND<5
2-Nitrophenol	ND<5
2,4-Dimethylphenol	ND<5
Bis(2-chloroethoxy)methane	ND<5
2,4-Dichlorophenol	ND<5
1,2,4-Trichlorobenzene	ND<5
Naphthalene	ND<5
Benzoic Acid	ND<20
4-Chloroaniline	ND<10
Hexachlorobutadiene	ND<5

J-ANALYTE WAS DETECTED AT A CONCENTRATION LESS THAN THE PRACTICAL QUANTITATION LIMIT.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

LAB DIRECTOR

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

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Page 2 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28737

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-3
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

4-Chloro-3-Methylphenol	ND<10
2-Methylnaphthalene	ND<5
Hexachlorocyclopentadiene	ND<5
2,4,6-Trichlorophenol	ND<5
2,4,5-Trichlorophenol	ND<5
2-Chloronaphthalene	ND<5
2-Nitroaniline	ND<20
Dimethyl Phthalate	ND<5
Acenaphthylene	ND<5
2,6-Dinitrotoluene	ND<5
3-Nitroaniline	ND<20
Acenaphthene	ND<5
2,4-Dinitrophenol	ND<20
Dibenzofuran	ND<5
2,4-Dinitrotoluene	ND<5
4-Nitrophenol	ND<20
Diethyl Phthalate	ND<5
Fluorene	ND<5
4-Chlorophenyl phenyl ether	ND<5
4-Nitroaniline	ND<20
2-Methyl-4,6-Dinitrophenol	ND<20
1,2-Diphenylhydrazine	ND<5
n-Nitrosodiphenylamine	ND<5
Azobenzene	ND<5
4-Bromophenyl phenyl ether	ND<5
Hexachlorobenzene	ND<5
Pentachlorophenol	ND<20
Phenanthrene	ND<5
Anthracene	ND<5
Di-n-Butyl Phthalate	1.2 J
Fluoranthene	ND<5
Benzidine	ND<20
Pyrene	ND<5
Butyl benzyl phthalate	ND<5
Benzo(a)anthracene	ND<5
3,3-Dichlorobenzidine	ND<10
Chrysene	ND<5

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

LAB DIRECTOR

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Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 3 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28737

OHM Remediation Services

SAMPLE SOURCE	:	PLATTSBURGH, NY
ORIGIN	:	MWPOL-3
DESCRIPTION	:	GRAB, PAFB #17257
SAMPLED ON	:	08/08/96 by CLIENT
DATE RECEIVED	:	08/09/96
P.O. NO.	:	LP43082

Bis(2-ethylhexyl)phthalate	2.0 J
Di-n-Octyl Phthalate	ND<5
Benzo(b)fluoranthene	ND<5
Benzo(k)fluoranthene	ND<5
Benzo(a)pyrene	ND<5
Indeno(1,2,3-cd)pyrene	ND<5
Dibenzo(a,h)anthracene	ND<5
Benzo(ghi)perylene	ND<5
Surrogate Recovery (%)	
2-Fluorophenol	45
Phenol-d6	28
Nitrobenzene-d5	53
2-Fluorobiphenyl	52
2,4,6-Tribromophenol	80
Terphenyl-d14	61

QC 

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by: 

LAB DIRECTOR

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Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 1 of 3

DATE Aug 15, 1996

LAB SAMPLE ID : 28737

OHM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-3
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

SW846 8021 TARGET ANALYTES

Method : SW846/8021/5030

Compounds Detected

Analyst : TGG

Units : UG/L

Results

Notebook Reference : 96-132-4156

Date Analyzed : 08/14/96

Dichlorodifluoromethane	ND<0.5
Chloromethane	ND<0.5
Vinyl Chloride	ND<0.5
Bromomethane	ND<0.5
Chloroethane	ND<0.5
Trichlorofluoromethane	ND<0.5
1,1-Dichloroethene	ND<0.5
Methylene Chloride	ND<0.5
trans-1,2-Dichloroethene	ND<0.5
1,1-Dichloroethane	ND<0.5
2,2-Dichloropropane	ND<0.5
cis-1,2-Dichloroethene	ND<0.5
Bromochloromethane	ND<0.5
Chloroform	ND<0.5
1,1,1-Trichloroethane	ND<0.5
Carbon Tetrachloride	ND<0.5
1,1-Dichloropropene	ND<0.5
Benzene	ND<0.5
1,2-Dichloroethane	ND<0.5
Trichloroethene	ND<0.5
1,2-Dichloropropane	ND<0.5
Dibromomethane	ND<0.5
Bromodichloromethane	ND<0.5
2-Chloroethylvinylether	ND<0.5
cis-1,3-Dichloropropene	ND<0.5

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

LAB DIRECTOR

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Page 2 of 3

LAB SAMPLE ID : 28737

DATE : Aug 15, 1996

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-3
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Toluene	ND<0.5
trans-1,3-Dichloropropene	ND<0.5
1,1,2-Trichloroethane	ND<0.5
Tetrachloroethene	ND<0.5
1,3-Dichloropropane	ND<0.5
Dibromochloromethane	ND<0.5
1,2-Dibromoethane (EDB)	ND<0.5
Chlorobenzene	ND<0.5
1,1,1,2-Tetrachloroethane	ND<0.5
Ethylbenzene	ND<0.5
p-Xylene/m-Xylene	ND<0.5
o-Xylene	ND<0.5
Styrene	ND<0.5
Bromoform	ND<0.5
Isopropylbenzene	ND<0.5
Bromobenzene	ND<0.5
1,1,2,2-Tetrachloroethane	ND<0.5
1,2,3-Trichloropropane	ND<0.5
n-Propylbenzene	ND<0.5
2-Chlorotoluene	ND<0.5
4-Chlorotoluene	ND<0.5
1,3,5-Trimethylbenzene	ND<0.5
tert-Butylbenzene	ND<0.5
1,2,4-Trimethylbenzene	ND<0.5
sec-Butylbenzene	ND<0.5
1,3-Dichlorobenzene	ND<0.5
1,4-Dichlorobenzene	ND<0.5
4-Isopropyltoluene	ND<0.5
1,2-Dichlorobenzene	ND<0.5
n-Butylbenzene	ND<0.5
1,2-Dibromo-3-chloropropane	ND<0.5
1,2,4-Trichlorobenzene	ND<0.5
Hexachlorobutadiene	ND<0.5
Naphthalene	ND<0.5
1,2,3-Trichlorobenzene	ND<0.5
MTBE	ND<5
Surrogate Recovery (%)	

QC

NY 10252 PA 68180 NJ 73188 EPA NY 00033

Approved by:

LAB DIRECTOR

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Page 3 of 3

DATE : Aug 15, 1996

LAB SAMPLE ID : 28737

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-3
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

PID 110
ELCD 61

QC

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Page 1 of 3

DATE : Aug 13, 1996

LAB SAMPLE ID : 28738

OHM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

BNA Extractables
Method : SW846/8270/3510
Compounds Detected

Analyst : PDB
Units : UG/L
Results

Notebook Reference : 94-249-2408
Date Analyzed : 08/13/96
Date Extracted : 08/09/96

n-Nitrosodimethylamine	ND<5
Aniline	ND<5
Bis(2-chloroethyl)ether	ND<5
Phenol	ND<5
2-Chlorophenol	ND<5
1,3-Dichlorobenzene	ND<5
1,4-Dichlorobenzene	ND<5
1,2-Dichlorobenzene	ND<5
Benzyl Alcohol	ND<10
bis(2-Chloroisopropylether)	ND<5
2-Methylphenol	ND<5
Hexachloroethane	ND<5
n-Nitrosodi-n-propylamine	ND<5
3-Methylphenol/4-Methylphenol	ND<5
Nitrobenzene	ND<5
Isophorone	ND<5
2-Nitrophenol	ND<5
2,4-Dimethylphenol	ND<5
Bis(2-chloroethoxy)methane	ND<5
2,4-Dichlorophenol	ND<5
1,2,4-Trichlorobenzene	ND<5
Naphthalene	ND<5
Benzoic Acid	ND<20
4-Chloroaniline	ND<10
Hexachlorobutadiene	ND<5

J-ANALYTE WAS DETECTED AT A CONCENTRATION LESS THAN THE PRACTICAL QUANTITATION LIMIT.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

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Page 2 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28738

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

4-Chloro-3-Methylphenol	ND<10
2-Methylnaphthalene	ND<5
Hexachlorocyclopentadiene	ND<5
2,4,6-Trichlorophenol	ND<5
2,4,5-Trichlorophenol	ND<5
2-Chloronaphthalene	ND<5
2-Nitroaniline	ND<20
Dimethyl Phthalate	ND<5
Acenaphthylene	ND<5
2,6-Dinitrotoluene	ND<5
3-Nitroaniline	ND<20
Acenaphthene	ND<5
2,4-Dinitrophenol	ND<20
Dibenzofuran	ND<5
2,4-Dinitrotoluene	ND<5
4-Nitrophenol	ND<20
Diethyl Phthalate	ND<5
Fluorene	ND<5
4-Chlorophenyl phenyl ether	ND<5
4-Nitroaniline	ND<20
2-Methyl-4,6-Dinitrophenol	ND<20
1,2-Diphenylhydrazine	ND<5
n-Nitrosodiphenylamine	ND<5
Azobenzene	ND<5
4-Bromophenyl phenyl ether	ND<5
Hexachlorobenzene	ND<5
Pentachlorophenol	ND<20
Phenanthrene	ND<5
Anthracene	ND<5
Di-n-Butyl Phthalate	1.4 J
Fluoranthene	ND<5
Benidine	ND<20
Pyrene	ND<5
Butyl benzyl phthalate	ND<5
Benzo(a)anthracene	ND<5
3,3-Dichlorobenzidine	ND<10
Chrysene	ND<5

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

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Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 3 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28738

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Bis(2-ethylhexyl)phthalate	2.4 J
Di-n-Octyl Phthalate	ND<5
Benzo(b)fluoranthene	ND<5
Benzo(k)fluoranthene	ND<5
Benzo(a)pyrene	ND<5
Indeno(1,2,3-cd)pyrene	ND<5
Dibenzo(a,h)anthracene	ND<5
Benzo(ghi)perylene	ND<5
Surrogate Recovery (%)	
2-Fluorophenol	75
Phenol-d6	48
Nitrobenzene-d5	80
2-Fluorobiphenyl	80
2,4,6-Tribromophenol	83
Terphenyl-d14	93

QC 

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Approved by: 

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 1 of 3

DATE Aug 15, 1996

LAB SAMPLE ID : 28738

OHM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

SW846 8021 TARGET ANALYTES

Method : SW846/8021/5030

Compounds Detected

Analyst : TGG

Units : UG/L

Results

Notebook Reference : 96-132-4151

Date Analyzed : 08/14/96

Dichlorodifluoromethane	ND<0.5
Chloromethane	ND<0.5
Vinyl Chloride	ND<0.5
Bromomethane	ND<0.5
Chloroethane	ND<0.5
Trichlorofluoromethane	ND<0.5
1,1-Dichloroethene	ND<0.5
Methylene Chloride	ND<0.5
trans-1,2-Dichloroethene	ND<0.5
1,1-Dichloroethane	ND<0.5
2,2-Dichloropropane	ND<0.5
cis-1,2-Dichloroethene	ND<0.5
Bromochloromethane	ND<0.5
Chloroform	ND<0.5
1,1,1-Trichloroethane	ND<0.5
Carbon Tetrachloride	ND<0.5
1,1-Dichloropropene	ND<0.5
Benzene	ND<0.5
1,2-Dichloroethane	ND<0.5
Trichloroethene	ND<0.5
1,2-Dichloropropane	ND<0.5
Dibromomethane	ND<0.5
Bromodichloromethane	ND<0.5
2-Chloroethylvinylether	ND<0.5
cis-1,3-Dichloropropene	ND<0.5

For questions regarding this report, please call and ask for Customer Services.

CC :

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Approved by:

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Page 2 of 3

DATE Aug 15, 1996

LAB SAMPLE ID : 28738

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Toluene	ND<0.5
trans-1,3-Dichloropropene	ND<0.5
1,1,2-Trichloroethane	ND<0.5
Tetrachloroethene	ND<0.5
1,3-Dichloropropane	ND<0.5
Dibromochloromethane	ND<0.5
1,2-Dibromoethane (EDB)	ND<0.5
Chlorobenzene	ND<0.5
1,1,1,2-Tetrachloroethane	ND<0.5
Ethylbenzene	ND<0.5
p-Xylene/m-Xylene	ND<0.5
o-Xylene	ND<0.5
Styrene	ND<0.5
Bromoform	ND<0.5
Isopropylbenzene	ND<0.5
Bromobenzene	ND<0.5
1,1,2,2-Tetrachloroethane	ND<0.5
1,2,3-Trichloropropane	ND<0.5
n-Propylbenzene	ND<0.5
2-Chlorotoluene	ND<0.5
4-Chlorotoluene	ND<0.5
1,3,5-Trimethylbenzene	ND<0.5
tert-Butylbenzene	ND<0.5
1,2,4-Trimethylbenzene	ND<0.5
sec-Butylbenzene	ND<0.5
1,3-Dichlorobenzene	ND<0.5
1,4-Dichlorobenzene	ND<0.5
4-Isopropyltoluene	ND<0.5
1,2-Dichlorobenzene	ND<0.5
n-Butylbenzene	ND<0.5
1,2-Dibromo-3-chloropropane	ND<0.5
1,2,4-Trichlorobenzene	ND<0.5
Hexachlorobutadiene	ND<0.5
Naphthalene	ND<0.5
1,2,3-Trichlorobenzene	ND<0.5
MTBE	ND<5
Surrogate Recovery (%)	

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

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Page 3 of 3

DATE : Aug 15, 1996

LAB SAMPLE ID : 28738

OHM Remediation Services

SAMPLE SOURCE	:	PLATTSBURGH, NY
ORIGIN	:	MWPOL-4
DESCRIPTION	:	GRAB, PAFB #17257
SAMPLED ON	:	08/08/96 by CLIENT
DATE RECEIVED	:	08/09/96
P.O. NO.	:	LP43082

PID 128
ELCD 62

QC

NY 10252 PA 68180 NJ 73168 EPA.NY 00033

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Page 1 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28739

OHM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4D
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

BWA Extractables
Method : SW846/8270/3510
Compounds Detected

Analyst : POB
Units : UG/L
Results

Notebook Reference : 94-249-2409
Date Analyzed : 08/13/96
Date Extracted : 08/09/96

n-Nitrosodimethylamine	ND<5
Aniline	ND<5
Bis(2-chloroethyl)ether	ND<5
Phenol	ND<5
2-Chlorophenol	ND<5
1,3-Dichlorobenzene	ND<5
1,4-Dichlorobenzene	ND<5
1,2-Dichlorobenzene	ND<5
Benzyl Alcohol	ND<10
bis(2-Chloroisopropylether)	ND<5
2-Methylphenol	ND<5
Hexachloroethane	ND<5
n-Nitrosodi-n-propylamine	ND<5
3-Methylphenol/4-Methylphenol	ND<5
Nitrobenzene	ND<5
Isophorone	ND<5
2-Nitrophenol	ND<5
2,4-Dimethylphenol	ND<5
Bis(2-chloroethoxy)methane	ND<5
2,4-Dichlorophenol	ND<5
1,2,4-Trichlorobenzene	ND<5
Naphthalene	ND<5
Benzoic Acid	ND<20
4-Chloroaniline	ND<10
Hexachlorobutadiene	ND<5

* RECOVERY VALUE IS OUTSIDE OF LABORATORY CONTROL LIMITS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

LAB DIRECTOR

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Page 2 of 3

Semivolatiles
TELEPHONE (607) 565-3500

FAX (607) 565-4083

DATE Aug 13, 1996

LAB SAMPLE ID : 28739

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4D
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

4-Chloro-3-Methylphenol	ND<10
2-Methylnaphthalene	ND<5
Hexachlorocyclopentadiene	ND<5
2,4,6-Trichlorophenol	ND<5
2,4,5-Trichlorophenol	ND<5
2-Chloronaphthalene	ND<5
2-Nitroaniline	ND<20
Dimethyl Phthalate	ND<5
Acenaphthylene	ND<5
2,6-Dinitrotoluene	ND<5
3-Nitroaniline	ND<20
Acenaphthene	ND<5
2,4-Dinitrophenol	ND<20
Dibenzofuran	ND<5
2,4-Dinitrotoluene	ND<5
4-Nitrophenol	ND<20
Diethyl Phthalate	ND<5
Fluorene	ND<5
4-Chlorophenyl phenyl ether	ND<5
4-Nitroaniline	ND<20
2-Methyl-4,6-Dinitrophenol	ND<20
1,2-Diphenylhydrazine	ND<5
n-Nitrosodiphenylamine	ND<5
Azobenzene	ND<5
4-Bromophenyl phenyl ether	ND<5
Hexachlorobenzene	ND<5
Pentachlorophenol	ND<20
Phenanthrene	ND<5
Anthracene	ND<5
Di-n-Butyl Phthalate	ND<5
Fluoranthene	ND<5
Benzidine	ND<20
Pyrene	ND<5
Butyl benzyl phthalate	ND<5
Benzo(a)anthracene	ND<5
3,3-Dichlorobenzidine	ND<10
Chrysene	ND<5

QCA

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Approved by:

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Page 3 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28739

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4D
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Bis(2-ethylhexyl)phthalate	ND<5
Di-n-Octyl Phthalate	ND<5
Benzo(b)fluoranthene	ND<5
Benzo(k)fluoranthene	ND<5
Benzo(a)pyrene	ND<5
Indeno(1,2,3-cd)pyrene	ND<5
Dibenzo(a,h)anthracene	ND<5
Benzo(ghi)perylene	ND<5
Surrogate Recovery (%)	
2-Fluorophenol	10
Phenol-d6	6 *
Nitrobenzene-d5	17 *
2-Fluorobiphenyl	18 *
2,4,6-Tribromophenol	19
Terphenyl-d14	21 *

QC

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Page 1 of 3

LAB SAMPLE ID : 28739

DATE Aug 15, 1996

OHM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4D
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

SW846 8021 TARGET ANALYTES

Method : SW846/8021/5030

Compounds Detected

Analyst : TGG

Units : UG/L

Results

Notebook Reference : 96-132-4152

Date Analyzed : 08/14/96

Dichlorodifluoromethane	ND<0.5
Chloromethane	ND<0.5
Vinyl Chloride	ND<0.5
Bromomethane	ND<0.5
Chloroethane	ND<0.5
Trichlorofluoromethane	ND<0.5
1,1-Dichloroethene	ND<0.5
Methylene Chloride	ND<0.5
trans-1,2-Dichloroethene	ND<0.5
1,1-Dichloroethane	ND<0.5
2,2-Dichloropropane	ND<0.5
cis-1,2-Dichloroethene	ND<0.5
Bromochloromethane	ND<0.5
Chloroform	ND<0.5
1,1,1-Trichloroethane	ND<0.5
Carbon Tetrachloride	ND<0.5
1,1-Dichloropropene	ND<0.5
Benzene	ND<0.5
1,2-Dichloroethane	ND<0.5
Trichloroethene	ND<0.5
1,2-Dichloropropane	ND<0.5
Dibromomethane	ND<0.5
Bromodichloromethane	ND<0.5
2-Chloroethylvinylether	ND<0.5
cis-1,3-Dichloropropene	ND<0.5

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

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Volatiles

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Page 2 of 3

DATE Aug 15, 1996

LAB SAMPLE ID : 28739

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4D
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Toluene	ND<0.5
trans-1,3-Dichloropropene	ND<0.5
1,1,2-Trichloroethane	ND<0.5
Tetrachloroethene	ND<0.5
1,3-Dichloropropane	ND<0.5
Dibromochloromethane	ND<0.5
1,2-Dibromoethane (EDB)	ND<0.5
Chlorobenzene	ND<0.5
1,1,1,2-Tetrachloroethane	ND<0.5
Ethylbenzene	ND<0.5
p-Xylene/m-Xylene	ND<0.5
o-Xylene	ND<0.5
Styrene	ND<0.5
Bromoform	ND<0.5
Isopropylbenzene	ND<0.5
Bromobenzene	ND<0.5
1,1,2,2-Tetrachloroethane	ND<0.5
1,2,3-Trichloropropane	ND<0.5
n-Propylbenzene	ND<0.5
2-Chlorotoluene	ND<0.5
4-Chlorotoluene	ND<0.5
1,3,5-Trimethylbenzene	ND<0.5
tert-Butylbenzene	ND<0.5
1,2,4-Trimethylbenzene	ND<0.5
sec-Butylbenzene	ND<0.5
1,3-Dichlorobenzene	ND<0.5
1,4-Dichlorobenzene	ND<0.5
4-Isopropyltoluene	ND<0.5
1,2-Dichlorobenzene	ND<0.5
n-Butylbenzene	ND<0.5
1,2-Dibromo-3-chloropropane	ND<0.5
1,2,4-Trichlorobenzene	ND<0.5
Hexachlorobutadiene	ND<0.5
Naphthalene	ND<0.5
1,2,3-Trichlorobenzene	ND<0.5
MTBE	ND<5
Surrogate Recovery (%)	

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

Approved by:

LAB DIRECTOR

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Volatiles

ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 3 of 3

DATE : Aug 15, 1996

LAB SAMPLE ID : 28739

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	MWPOL-4D
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

PID
ELCD

119
61



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Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 1 of 3

DATE : Aug 13, 1996

LAB SAMPLE ID : 28740

OHM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	ER-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

BNA Extractables
Method : SW846/8270/3510
Compounds Detected

Analyst : PDB
Units : UG/L
Results

Notebook Reference : 94-249-2410
Date Analyzed : 08/13/96
Date Extracted : 08/09/96

n-Nitrosodimethylamine	ND<6
Aniline	ND<6
Bis(2-chloroethyl)ether	ND<6
Phenol	ND<6
2-Chlorophenol	ND<6
1,3-Dichlorobenzene	ND<6
1,4-Dichlorobenzene	ND<6
1,2-Dichlorobenzene	ND<6
Benzyl Alcohol	ND<12
bis(2-Chloroisopropyl)ether	ND<6
2-Methylphenol	ND<6
Hexachloroethane	ND<6
n-Nitrosodi-n-propylamine	ND<6
3-Methylphenol/4-Methylphenol	ND<6
Nitrobenzene	ND<6
Isophorone	ND<6
2-Nitrophenol	ND<6
2,4-Dimethylphenol	ND<6
Bis(2-chloroethoxy)methane	ND<6
2,4-Dichlorophenol	ND<6
1,2,4-Trichlorobenzene	ND<6
Naphthalene	ND<6
Benzoic Acid	ND<24
4-Chloroaniline	ND<12
Hexachlorobutadiene	ND<6

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Page 2 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28740

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	ER-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

4-Chloro-3-Methylphenol	ND<12
2-Methylnaphthalene	ND<6
Hexachlorocyclopentadiene	ND<6
2,4,6-Trichlorophenol	ND<6
2,4,5-Trichlorophenol	ND<6
2-Chloronaphthalene	ND<6
2-Nitroaniline	ND<24
Dimethyl Phthalate	ND<6
Acenaphthylene	ND<6
2,6-Dinitrotoluene	ND<6
3-Nitroaniline	ND<24
Acenaphthene	ND<6
2,4-Dinitrophenol	ND<24
Dibenzofuran	ND<6
2,4-Dinitrotoluene	ND<6
4-Nitrophenol	ND<24
Diethyl Phthalate	ND<6
Fluorene	ND<6
4-Chlorophenyl phenyl ether	ND<6
4-Nitroaniline	ND<24
2-Methyl-4,6-Dinitrophenol	ND<24
1,2-Diphenylhydrazine	ND<6
n-Nitrosodiphenylamine	ND<6
Azobenzene	ND<6
4-Bromophenyl phenyl ether	ND<6
Hexachlorobenzene	ND<6
Pentachlorophenol	ND<24
Phenanthrene	ND<6
Anthracene	ND<6
Di-n-Butyl Phthalate	ND<6
Fluoranthene	ND<6
Benidine	ND<24
Pyrene	ND<6
Butyl benzyl phthalate	ND<6
Benzo(a)anthracene	ND<6
3,3-Dichlorobenzidine	ND<12
Chrysene	ND<6

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Page 3 of 3

DATE Aug 13, 1996

LAB SAMPLE ID : 28740

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	ER-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Bis(2-ethylhexyl)phthalate	150
Di-n-Octyl Phthalate	ND<6
Benzo(b)fluoranthene	ND<6
Benzo(k)fluoranthene	ND<6
Benzo(a)pyrene	ND<6
Indeno(1,2,3-cd)pyrene	ND<6
Dibenzo(a,h)anthracene	ND<6
Benzo(ghi)perylene	ND<6
Surrogate Recovery (%)	
2-Fluorophenol	53
Phenol-d6	35
Nitrobenzene-d5	78
2-Fluorobiphenyl	79
2,4,6-Tribromophenol	77
Terphenyl-d14	96

QC

NY 10252 PA 68180 NJ 73168 EPA NY 00033

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 1 of 3

DATE Aug 15, 1996

LAB SAMPLE ID : 28740

OEM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	ER-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

SW846 8021 TARGET ANALYTES

Method : SW846/8021/5030

Compounds Detected

Dichlorodifluoromethane

Chloromethane

Vinyl Chloride

Bromomethane

Chloroethane

Trichlorofluoromethane

1,1-Dichloroethene

Methylene Chloride

trans-1,2-Dichloroethene

1,1-Dichloroethane

2,2-Dichloropropane

cis-1,2-Dichloroethene

Bromochloromethane

Chloroform

1,1,1-Trichloroethane

Carbon Tetrachloride

1,1-Dichloropropene

Benzene

1,2-Dichloroethane

Trichloroethene

1,2-Dichloropropane

Dibromomethane

Bromodichloromethane

2-Chloroethylvinylether

cis-1,3-Dichloropropene

Analyst : TGG

Units : UG/L

Results

Notebook Reference : 96-132-4157

Date Analyzed : 08/14/96

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

64

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

ND<0.5

For questions regarding this report, please call and ask for Customer Services.

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Approved by:

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 2 of 3

DATE Aug 15, 1996

LAB SAMPLE ID : 28740

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	ER-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Toluene	ND<0.5
trans-1,3-Dichloropropene	ND<0.5
1,1,2-Trichloroethane	ND<0.5
Tetrachloroethene	ND<0.5
1,3-Dichloropropene	ND<0.5
Dibromochloromethane	ND<0.5
1,2-Dibromoethane (EDB)	ND<0.5
Chlorobenzene	ND<0.5
1,1,1,2-Tetrachloroethane	ND<0.5
Ethylbenzene	ND<0.5
p-Xylene/m-Xylene	ND<0.5
o-Xylene	ND<0.5
Styrene	ND<0.5
Bromoform	ND<0.5
Isopropylbenzene	ND<0.5
Bromobenzene	ND<0.5
1,1,2,2-Tetrachloroethane	ND<0.5
1,2,3-Trichloropropane	ND<0.5
n-Propylbenzene	ND<0.5
2-Chlorotoluene	ND<0.5
4-Chlorotoluene	ND<0.5
1,3,5-Trimethylbenzene	ND<0.5
tert-Butylbenzene	ND<0.5
1,2,4-Trimethylbenzene	ND<0.5
sec-Butylbenzene	ND<0.5
1,3-Dichlorobenzene	ND<0.5
1,4-Dichlorobenzene	ND<0.5
4-Isopropyltoluene	ND<0.5
1,2-Dichlorobenzene	ND<0.5
n-Butylbenzene	ND<0.5
1,2-Dibromo-3-chloropropane	ND<0.5
1,2,4-Trichlorobenzene	ND<0.5
Hexachlorobutadiene	ND<0.5
Naphthalene	1
1,2,3-Trichlorobenzene	ND<0.5
MTBE	ND<5
Surrogate Recovery (%)	

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Page 3 of 3

DATE : Aug 15, 1996

LAB SAMPLE ID : 28740

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	ER-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

PID
ELCD

121
77

QC

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Page 1 of 3

DATE Aug 16, 1996

LAB SAMPLE ID : 28741

OHM Remediation Services
Greg Guimond
P.O. Box 2202

Plattsburgh NY 12901

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	AB-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

SW846 8021 TARGET ANALYTES

Method : SW846/8021/5030

Compounds Detected

Analyst : TGG

Units : UG/L

Results

Notebook Reference : 96-132-4158

Date Analyzed : 08/14/96

Dichlorodifluoromethane	ND<0.5
Chloromethane	ND<0.5
Vinyl Chloride	ND<0.5
Bromomethane	ND<0.5
Chloroethane	ND<0.5
Trichlorofluoromethane	ND<0.5
1,1-Dichloroethene	ND<0.5
Methylene Chloride	59
trans-1,2-Dichloroethene	ND<0.5
1,1-Dichloroethane	ND<0.5
2,2-Dichloropropane	ND<0.5
cis-1,2-Dichloroethene	ND<0.5
Bromochloromethane	ND<0.5
Chloroform	ND<0.5
1,1,1-Trichloroethane	ND<0.5
Carbon Tetrachloride	ND<0.5
1,1-Dichloropropene	ND<0.5
Benzene	ND<0.5
1,2-Dichloroethane	ND<0.5
Trichloroethene	ND<0.5
1,2-Dichloropropane	ND<0.5
Dibromomethane	ND<0.5
Bromodichloromethane	ND<0.5
2-Chloroethylvinylether	ND<0.5
cis-1,3-Dichloropropene	ND<0.5

For questions regarding this report, please call and ask for Customer Services.

CC :

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Approved by:

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Page 2 of 3

LAB SAMPLE ID : 28741

DATE : Aug 15, 1996

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	AB-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

Toluene	ND<0.5
trans-1,3-Dichloropropene	ND<0.5
1,1,2-Trichloroethane	ND<0.5
Tetrachloroethene	ND<0.5
1,3-Dichloropropane	ND<0.5
Dibromochloroethane	ND<0.5
1,2-Dibromoethane (EDB)	ND<0.5
Chlorobenzene	ND<0.5
1,1,1,2-Tetrachloroethane	ND<0.5
Ethylbenzene	ND<0.5
p-Xylene/m-Xylene	ND<0.5
o-Xylene	ND<0.5
Styrene	ND<0.5
Bromoform	ND<0.5
Isopropylbenzene	ND<0.5
Bromobenzene	ND<0.5
1,1,2,2-Tetrachloroethane	ND<0.5
1,2,3-Trichloropropane	ND<0.5
n-Propylbenzene	ND<0.5
2-Chlorotoluene	ND<0.5
4-Chlorotoluene	ND<0.5
1,3,5-Trimethylbenzene	ND<0.5
tert-Butylbenzene	ND<0.5
1,2,4-Trimethylbenzene	ND<0.5
sec-Butylbenzene	ND<0.5
1,3-Dichlorobenzene	ND<0.5
1,4-Dichlorobenzene	ND<0.5
4-Isopropyltoluene	ND<0.5
1,2-Dichlorobenzene	ND<0.5
n-Butylbenzene	ND<0.5
1,2-Dibromo-3-chloropropane	ND<0.5
1,2,4-Trichlorobenzene	ND<0.5
Hexachlorobutadiene	ND<0.5
Naphthalene	1
1,2,3-Trichlorobenzene	ND<0.5
MTBE	ND<5
Surrogate Recovery (%)	

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DATE : Aug 15, 1996

LAB SAMPLE ID : 28741

OHM Remediation Services

SAMPLE SOURCE	PLATTSBURGH, NY
ORIGIN	AB-POL
DESCRIPTION	GRAB, PAFB #17257
SAMPLED ON	08/08/96 by CLIENT
DATE RECEIVED	08/09/96
P.O. NO.	LP43082

PID 121
ELCD 71

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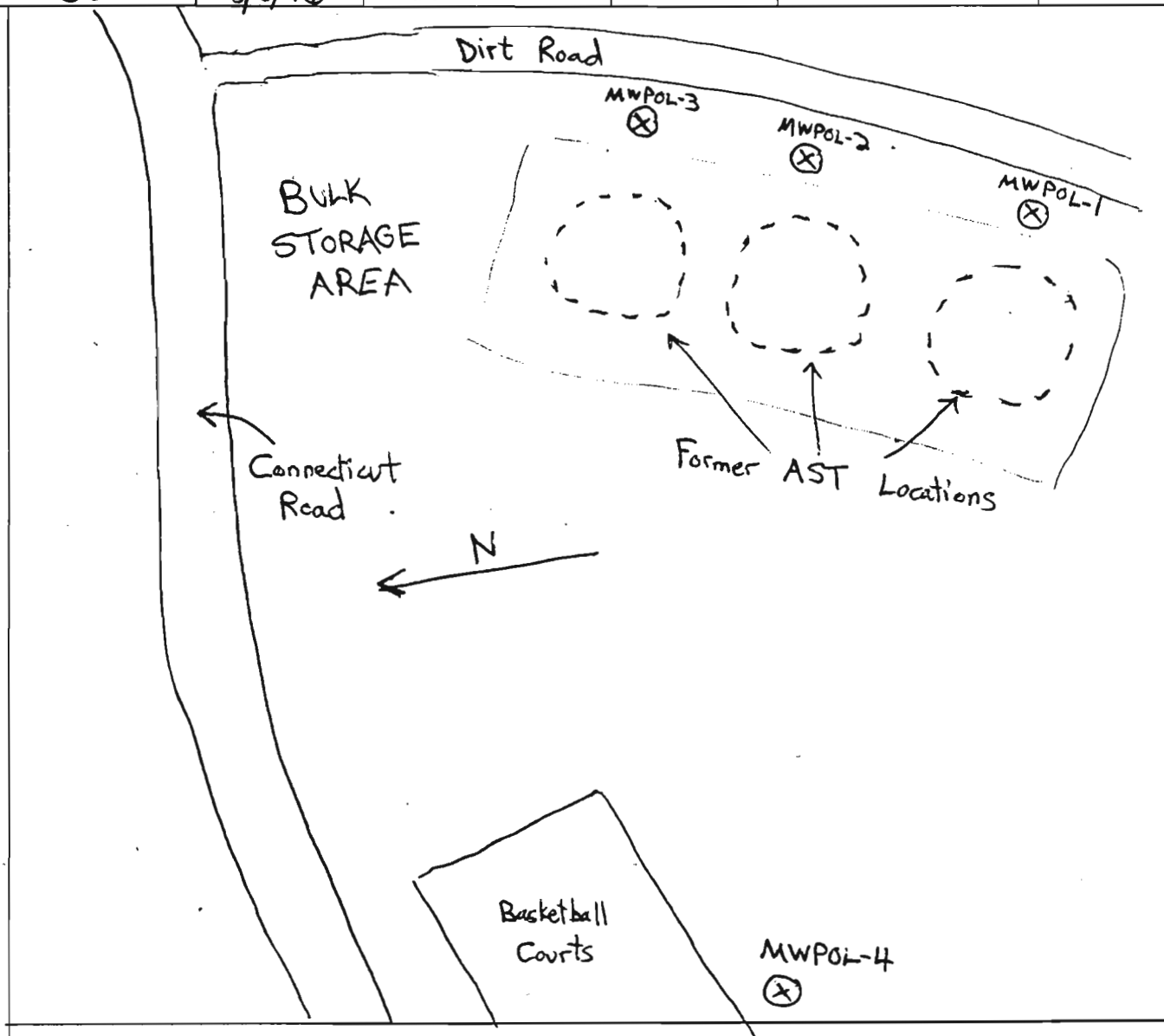
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Page 1 of 1

Proj. No. 17257	Client AFCEE	Location PAFB/Bulk Storage	Subject Bulk Storage Area
Preparer's Initials GG	Date 8/8/96	Reviewer's Initials	Date
Preparer's Initials		Approver's Initials	Date



Comments

- Not to scale

⊗ Monitoring Well Locations

CHAIN-OF-CUSTODY RECORD

Friend Lab
LP43082

156106

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PROJECT NAME PAFG		PROJECT LOCATION PLATTSBURGH, NY		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Method 5021 + MTBE Method 5070 Full BVA List		NUMBER OF CONTAINERS	REMARKS		
PROJECT NO. 17257		PROJECT CONTACT GREG GUIMOND						PROJECT TELEPHONE NO. (518) 562-3923	
CLIENT'S REPRESENTATIVE AFCEE		PROJECT MANAGER/SUPERVISOR KEN KUKKONEN							
ITEM NO.	SAMPLE NUMBER	DATE	TIME					COMP	GRAB
1	MWPOL-1	8/8/96	10:45		X	GROUNDWATER	2x40mL 2x1L X X		
2	MWPOL-2	8/8/96	11:15		X	Groundwater	2x40mL 2x1L X X		
3	MWPOL-3	8/8/96	12:15		X	Groundwater	2x40mL 2x1L X X		
4	MWPOL-4	8/8/96	15:05		X	Groundwater	2x40mL 2x1L X X		
5	MWPOL-4D	8/8/96	15:05		X	Groundwater	2x40mL 2x1L X X		
6	ER-POL	8/8/96				Equipment Rinse	2x40mL 2x1L X X		
7	AB-POL	8/8/96				Ambient Blank	2x40mL X		
8	Trip Blank						2x40mL X		
9									
0									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7	M. Guimond 47371	FedEx Airbill # 1836639965	8/3/96	1600	Preserved at 4°C Temp Blank included 10 day (working) TAT
2						
3						
4						

SAMPLER'S SIGNATURE: *Gregory Guimond*

B.2 OWS-2068 (PORT DOUGLAS OWS)

**OWS-2068 CLOSURE REPORT
OHM REMEDIATION SERVICES CORP.
PLATTSBURGH AIR FORCE BASE
Delivery Order 0003**

OHM Project No. 17257

Date: 04/18/97

OWS No.: OWS-2068

OWS Size: 1,500-Gallon

OWS Location: Bulk Storage Area

TABLE OF CONTENTS

Data Summary Sheet

- Site Location
- OWS Information
- Sources of Contamination
- Site Geology
- Soil Quality Analytical Data
- Groundwater Quality Analytical Data

Attachment I - Sampling and Analysis Site Reports

- Analytical Results (Soil)
- Analytical Results (Liquid)
- Split Sample Analytical Results - Not Applicable
- Soil Sample Collection Log
- Sample Location Map (Site Map)

Comments:

One 1,500-gallon oil/water separator (OWS), holding tank, and piping were excavated and removed from the south side of the Bulk Fuel Storage Area (BFSA) in August 1996. This OWS was also referred to as the Port Douglas OWS. Soil around the OWS was excavated to a depth of approximately 7 feet and temporarily stockpiled adjacent to the excavation on plastic sheeting. Groundwater was encountered at a depth of approximately 6 feet. Staining and hydrocarbon odors were noted at the time of removal. Prior to the removal, a composite sample was collected on 07/11/96 from the liquid contained within OWS-2068 and from the second OWS (OWS-2073) located within the BFSA. The composite sample was analyzed for full TCLP, pesticides/polychlorinated biphenyls (PCBs) and ignitability for disposal purposes. On 08/07/96, one composite soil sample was collected from the excavated soil stockpile. On 08/19/96, one composite soil sample was collected from sidewall of the excavation and one water sample was collected from the bottom of the excavation. Additional soil was removed from the walls of the excavation and on 09/06/96, a composite soil sample was collected from each of the four sidewalls. On 09/12/96, a second water sample was collected from the bottom of the excavation due to a missed holding time. The first composite soil sample collected from the excavation on 08/19/96 was not analyzed due to the removal of additional soil from the walls. All other samples were analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). PAHs and one VOC were detected in the soil samples at concentrations which exceed the NYSDEC TCLP Alternative Guidance Values. VOCs were detected in the water sample at concentrations in excess of the NYSDEC Class GA Groundwater Standards. The stockpiled soil was transported to the on-site treatment cell and the excavation was backfilled to grade with imported clean fill.

DATA SUMMARY FOR TECHNICAL REPORT SUBMITTAL

Date: 04/18/97

OWS No.: OWS-2068 OWS Location : Bulk Storage Area

Street Address: Connecticut Road, Bulk Storage Area
Plattsburgh AFB, NY 12901

Consultant Information

Consultant Completing Report: Parsons ES

Contact Person and Telephone No: Edward J. Ashton (315) 451-9560

Mailing Address: 290 Elwood Davis Road, Suite 312
Liverpool, NY 13088

Site Location/Description	Yes/No		Yes/No
Municipal water in area ?	<u>Yes</u>	Basements (within 250 feet)?	<u>No</u>
Municipal water supplied to site?	<u>Yes</u>	Water supply wells (within 1,000 feet)?	<u>No</u>
Municipal sewer in area?	<u>Yes</u>	Surface water body (within 1,000 feet)?	<u>Yes</u>
Storm sewer in area?	<u>No</u>		

OWS Information OWS Dimension: 3' dia. x 5' L
 Mat=l of Const.: Tank - Steel

Holding Tank Dimension: 1.5' dia. x 3' L
 Piping - 7" Steel

OWS No.	Product Type	OWS Condition 0 - Perforated 4 - No Corrosion	Capacity (Gallons)	Quantity Removed (Gallons)	OWS Removed Yes/No	Piping Condition 0 - Perforated 4 - No Corrosion	Piping Removed Yes/No
2068	OW	4	1,500	300	Yes	4	Yes

* - HO = Heating Oil, G= Gasoline, D = Diesel, UG = Unleaded Gas, OW = Oil and Water, ANB = Acid Neutralization Basin

Suspected Sources of Contamination

1,500-gallon OWS

Eliminated? Yes

Free phase product encountered? Yes xx Thickness Sheen No

Contaminated soil encountered? Yes xx Amt. excavated (YD³) ~752 No

Did sample analysis indicate groundwater contamination above NYSDEC Groundwater Standards? Yes

Did sample analysis indicate attainment of soil cleanup criteria? No

DATA SUMMARY FOR TECHNICAL REPORT SUBMITTAL

Site Geology

Description	Depth (Feet)
Brown Sand with Minor Silt	0 - 7 (Bottom of excavation)
Depth to bedrock:	> 50 feet
Average depth to groundwater:	6 feet
General groundwater flow direction:	East, toward Lake Champlain

Soil Quality Analytical Data (Excavation Confirmation Samples)

Sample Designation	OWSPH-E1	OWSPH-N1	OWSPH-S1	OWSPH-W1	
Date Sampled	09/06/96	09/06/96	09/06/96	09/06/96	
Parameters	Method	Concentrations (ppb)			
MTBE	8021	ND	ND	ND S	ND S
Benzene	8021	10.1	ND	7.0 S	16.2 S
Trichloroethylene	8021	ND	ND	ND S	ND S
Toluene	8021	ND	ND	1.9 JS	8.4 S
Ethylbenzene	8021	2.4 J	ND	6.9 S	15.7 S
Xylenes (total)	8021	ND	ND	15.2 S	98.9 S
Total BTEX	8021	12.5	ND	31.0	139.2
Naphthalene	8270	ND	ND	28 J	215 J
Total PAHs	8270	ND	3,259	28	215
		Split sample results shown in <i>italic</i> .			

Groundwater Quality Analytical Data (Excavation Confirmation Samples)

Sample Designation	BSOWSPH-LQ	OWSPH-LQ2			
Date Sampled	08/19/96	09/12/96			
Parameters	Method	Concentrations (ppb)			
MTBE	8021	NA	ND		
Benzene	8021	NA	8.9		
Trichloroethylene	8021	NA	ND		
Toluene	8021	NA	ND		
Ethylbenzene	8021	NA	1.4 J		
Xylenes (total)	8021	NA	39.5		
Total BTEX	8021	NA	49.8		
Naphthalene	8270	ND	NA		
Total PAHs	8270	ND	NA		

**Sampling & Analysis Site Report
On-Site Laboratory
Plattsburgh AFB - Project #17257**

Site: Bulk Storage Area OWSs

Revised Report Date: 11/04/97

Original Report Date: 07/24/96

Sample Collection:

-On 07/11/96, a composite sample (OWS2065-1) was collected from the liquid contained in the two oil/water separators (OWSs) (OWS-2068 and OWS-2073) at the Bulk Fuel Storage Area. The sample was labeled before the proper identification for each OWS was known. There had been an underground storage tank (UST-2065-A) removed in the vicinity of the two OWSs, under a separate delivery order, therefore the composite sample's identification contained '2065'. Two, full 1-liter containers were collected. The total oil fraction from the two containers was less than 10 mL, therefore, analysis was only performed on the water fraction.

On-Site analysis:

-No samples were analyzed by the on-site laboratory.

Off-Site Analysis:

-The composite sample was shipped to CTM Analytical Laboratories for full TCLP, Pesticides/PCBs (EPA Method 8080) and ignitability (EPA Method 1010) analyses.

CTM Analytical Laboratories, Ltd.

PAGE 1

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139



GC/MS
GC
ICAP
Sampling Services

OHM REMEDIATION SERVICES CORP
P.O. BOX 2202
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

CTM Task #: 960712E

Attention: MR. GREG GUIMOND

Purchase Order Number:
Date Sampled: 07/11/96 Time: 9:00
Sampled By : JONES
Sample Id: OWS2065-1
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960712E 01
Date Received: 07/12/96
Collection Method: GRAB
Matrix: AQU

Parameters and Standard Methodology Used

		Results	PQL	Unit	Analyst Reference
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3010	COMPLETED			D-20:130 7/16/96
ARSENIC	ICP, EPA METHOD 200.7	ND	0.010	MG/L	F-4:101 7/17/96
BARIUM	ICP, EPA METHOD 200.7	0.077	0.050	MG/L	F-4:101 7/17/96
CADMIUM	ICP, EPA METHOD 200.7	ND	0.005	MG/L	F-4:101 7/17/96
CHROMIUM	ICP, EPA METHOD 200.7	ND	0.010	MG/L	F-4:101 7/17/96
LEAD	ICP, EPA METHOD 200.7	0.055	0.003	MG/L	F-4:101 7/17/96
MERCURY DIGESTION - AQUEOUS	EPA METHODS, 1983 245.1	COMPLETED			D-20:133 7/18/96
MERCURY	EPA METHODS, 1983 245.1	0.0002	0.0002	MG/L	E-4:88 7/19/96
SILVER	ICP, EPA METHOD 200.7	ND	0.010	MG/L	F-4:101 7/17/96
SELENIUM	ICP, EPA METHOD 200.7	ND	0.010	MG/L	F-4:101 7/17/96
FLASH POINT	SW-846 METHOD 1010	>200	70	oF	PL 7/19/96
BASE/NEUTRALS, SW-846 8270	SW-846 METHOD 8270	COMPLETED			GCMSB:96 7/18/96
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			DO 7/16/96
1,4-DICHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	GCMSB:96 7/18/96
HEXACHLOROETHANE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	GCMSB:96 7/18/96
NITROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	GCMSB:96 7/18/96
HEXACHLOROBUTADIENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	GCMSB:96 7/18/96
2,4-DINITROTOLUENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	GCMSB:96 7/18/96
HEXACHLOROBENZENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	GCMSB:96 7/18/96
PYRIDINE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	20	MCG/L	GCMSB:96 7/18/96
ACID EXTRACTABLES, SW-846 8270	SW-846 METHOD 8270	COMPLETED			GCMSB:96 7/18/96
ACID EXTRACTION	SW-846 METHOD 3550	COMPLETED			DO 7/16/96
2,4,6-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	20	MCG/L	GCMSB:96 7/18/96
2,4,5-TRICHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	100	MCG/L	GCMSB:96 7/18/96
M & P CRESOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	40	MCG/L	GCMSB:96 7/18/96
O-CRESOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	20	MCG/L	GCMSB:96 7/18/96
PENTACHLOROPHENOL	SW-846 METHOD 8270 ACID EXTRACTABLES	ND	100	MCG/L	GCMSB:96 7/18/96
VOLATILES, SW-846 8240		COMPLETED			GCMSCD:25 7/12/96
VINYL CHLORIDE	SW 846 8240	ND	2,000	MCG/L	GCMSCD:25 7/12/96
1,1-DICHLOROETHENE	SW 846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96
CHLOROFORM	SW 846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96
CARBON TETRACHLORIDE	SW 846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96

(CONTINUES ON NEXT PAGE)

REMARKS:

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CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive
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GC/MS
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ICAP
Sampling Services

OHM REMEDIATION SERVICES CORP
P.O. BOX 2202
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

Attention: MR. GREG GUIMOND

CTM Task #: 960712E

Purchase Order Number:
Date Sampled: 07/11/96 Time: 9:00
Sampled By : JONES
Sample Id: OWS2065-1
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960712E 01
Date Received: 07/12/96
Collection Method: GRAB
Matrix: AQU

Parameters and Standard Methodology Used

Results	PQL	Unit	Analyst Reference
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(CONTINUED FROM PREVIOUS PAGE)

BENZENE	SW-846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96
1,2-DICHLOROETHANE	SW 846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96
TRICHLOROETHENE	SW 846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96
TETRACHLOROETHENE	SW 846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96
CHLOROBENZENE	SW 846 8240	ND	1,000	MCG/L	GCMSCD:25 7/12/96
2-BUTANONE (MEK)	SW 846 8240	ND	2,000	MCG/L	GCMSCD:25 7/12/96
METHANOL EXTRACTION	SW-846 METHOD 5030	COMPLETED			GCMSCD:25 7/12/96
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			GCMSCD:25 7/12/96
PESTICIDE/PCB EXTRACTION	SW-846 METHOD 3500	COMPLETED			DO 7/16/96
GAMMA-BHC	SW-846 METHOD 8080	ND	0.2	MCG/L	GC8D-075 7/17/96
CHLORDANE	SW-846 METHOD 8080	ND	2.0	MCG/L	GC8D-075 7/17/96
ENDRIN	SW-846 METHOD 8080	ND	0.2	MCG/L	GC8D-075 7/17/96
HEPTACHLOR	SW-846 METHOD 8080	ND	0.2	MCG/L	GC8D-075 7/17/96
HEPTACHLOR EPOXIDE	SW-846 METHOD 8080	ND	0.2	MCG/L	GC8D-075 7/17/96
METHOXYCHLOR	SW-846 METHOD 8080	ND	0.2	MCG/L	GC8D-075 7/17/96
TOXAPHENE	SW-846 METHOD 8080	ND	4.0	MCG/L	GC8D-075 7/17/96
PCB1016	SW-846 METHOD 8080	ND	2.0	MCG/L	GC3E-092 7/16/96
PCB1221	SW-846 METHOD 8080	ND	2.0	MCG/L	GC3E-092 7/16/96
PCB1232	SW-846 METHOD 8080	ND	2.0	MCG/L	GC3E-092 7/16/96
PCB1242	SW-846 METHOD 8080	ND	2.0	MCG/L	GC3E-092 7/16/96
PCB1248	SW-846 METHOD 8080	ND	2.0	MCG/L	GC3E-092 7/16/96
PCB1254	SW-846 METHOD 8080	ND	2.0	MCG/L	GC3E-092 7/16/96
PCB1260	SW-846 METHOD 8080	ND	2.0	MCG/L	GC3E-092 7/16/96
EXTRACTION FOR HERBICIDES	SW-846 METHOD 8150	COMPLETED			DO 7/17/96
2,4-D	SW-846 METHOD 8150	0.5	0.2	MCG/L	GC8D-075 7/18/96
SILVEX	SW-846 METHOD 8150	ND	0.2	MCG/L	GC8D-075 7/18/96

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

000004

Soil Sample Collection Log
Plattsburgh AFB - Project # 17257/17499

Pg. 1 of 2

Date: 7-11-96

Site: Bulk Storage a/s

Weather: Sunny 175°

Samplers: MS

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
OWS2065-1	0900	Hot	G	0-7'	—	—	Fuel / Water emulsion	2 x 12

Map Attached: Yes No

-Reference Points: Yes No
-Head Space Readings: Yes No

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis: VOCs SVOCs Other: Full TCLP, Pesticides/PCBs, Ignitability

Split sample Collected: Yes No

Laboratory Destination: CTM COC # 172255 Airbill # 1243409311

Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

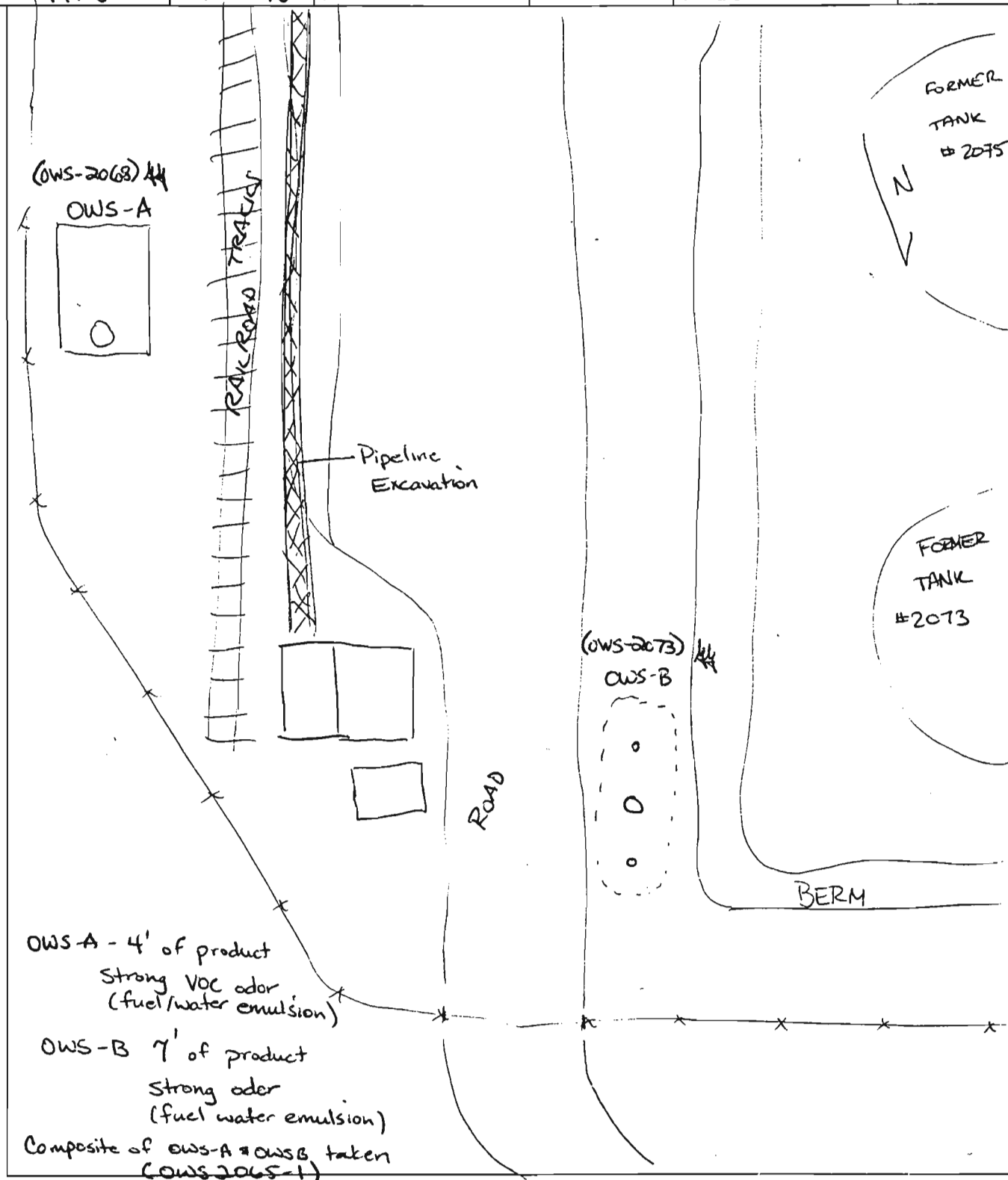
Requested Analysis: VOCs SVOCs Cooler Temperature: _____

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



Page 2 of 2

Proj. No. 17257	Client AFCEE	Location Bulk Storage	Subject Disp./Char. Sample		
Preparer's Initials MHS	Date 7-11-96	Reviewer's Initials	Date	Approver's Initials	Date





Olin Remediation
Services Corp.

CHAIN-OF-CUSTODY RECORD

CTM

LP 42814

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

172255

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

PROJECT NAME PAFB		PROJECT LOCATION Plattsburgh, NY		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>Full IC LP PCBs Ignitability</i>		NUMBER OF CONTAINERS	REMARKS	
PROJ. NO. 17257	PROJECT CONTACT Greg Guimond	PROJECT TELEPHONE NO. (518) 562-3631						
CLIENT'S REPRESENTATIVE Joe Szot		PROJECT MANAGER/SUPERVISOR Mo Cormier						
ITEM NO.	SAMPLE NUMBER	DATE	TIME					COMP
1	OWS2065-1	7-11-96	0900		X	Fuel/Water Emulsion	2x19 X X X	Strong VOC odor
2								
3								
4								
5								
6								
7								
8								
9								
10								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1	Matthew Jones	Fed Ex Airbill # 1243409311	7-11-96		- 5 day TAT - Preserved at 4°C - Temp Blank Included
2						
3						
4						SAMPLER'S SIGNATURE Matthew Jones

Sampling & Analysis Site Report
On-Site Laboratory
Plattsburgh AFB - Project #17257

Site: Port Douglas OWS (OWS-2068)

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

Sample Collection:

-On 08/07/96, a composite sample (SPPHOWS-1) was collected from the excavated soil stockpile associated with the Port Douglas oil/water separator (OWS) (OWS-2068) removal at the Bulk Fuel Storage Area. The material was then transported to the on-site treatment cell.

-On 08/19/96, a liquid sample (BSOWSPH-LQ) was collected from the groundwater in the bottom of the excavation. A composite soil sample (BSOWSPH) was collected from the four sidewalls of the excavation.

-On 09/06/96, after removing additional soil from the walls, the excavation was resampled. One composite sample was collected from each of the four excavation sidewalls (OWSPH-N1, -S1, -E1, and -W1).

-On 09/12/96, a second groundwater sample (OWSPH-LQ2) was collected from the water at the bottom of the excavation due to a missed holding time for VOC analysis of BSOWSPH-LQ.

On-Site analysis:

-All samples, except for OWSPH-LQ2 and BSOWSPH, were analyzed for VOCs and PAHs by EPA Methods 8021 and 8270, respectively. OWSPH-LQ2 was analyzed for VOCs only due to the missed holding time of the original sample. The composite soil sample (BSOWSPH) was not analyzed due to the additional sampling on 09/06/96 from each excavation sidewall.

-o-Xylene, which was detected in sample SPPHOWS-1, was also present in an associated method blank (PID3041). o-Xylene was not detected in the method blanks associated with sample OWSPH-W1.

-The VOC surrogate recoveries for OWSPH-S1 and OWSPH-W1 were high due to matrix effects.

Off-Site Analysis:

-No samples were shipped off site for analysis.

Analytical Results (Soil)

Plattsburgh AFB - Project No. 17257

Page 1 of 4

On-Site Laboratory

Site: OWSPH

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

PAH Analysis (Method 8270)		Sample Number		OWSPH-E1		OWSPH-N1		OWSPH-S1		OWSPH-W1		SPPHOWS-1			
		Date Sampled		09/06/96		09/06/96		09/06/96		09/06/96		08/07/96			
		Date Extracted		09/11/96		09/11/96		09/11/96		09/11/96		08/20/96			
		Date Analyzed		09/13/96		09/13/96		09/13/96		09/13/96		08/22/96			
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ng/g	333	200	ND		ND		28	J	215	# J	414	#		
Acenaphthene	ng/g	333	400	ND		ND		ND		ND		ND			
Fluorene	ng/g	333	1000	ND		ND		ND		ND		ND			
Phenanthrene	ng/g	333	1000	ND		248	J	ND		ND		ND			
Anthracene	ng/g	333	1000	ND		135	J	ND		ND		ND			
Fluoranthene	ng/g	333	1000	ND		859		ND		ND		ND			
Pyrene	ng/g	333	1000	ND		673		ND		ND		ND			
Benzo(a)anthracene	ng/g	333	0.04	ND		283	# J	ND		ND		ND			
Chrysene	ng/g	333	0.04	ND		273	# J	ND		ND		ND			
Benzo(b)fluoranthene	ng/g	333	0.04	ND		188	# J	ND		ND		ND			
Benzo(k)fluoranthene	ng/g	333	0.04	ND		166	# J	ND		ND		ND			
Benzo(a)pyrene	ng/g	333	0.04	ND		168	# J	ND		ND		ND			
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND		137	# J	ND		ND		ND			
Dibenz(a,h)anthracene	ng/g	333	1000	ND		ND		ND		ND		ND			
Benzo(g,h,i)perylene	ng/g	333	0.04	ND		129	# J	ND		ND		ND			
Total PAHs	ng/g			ND		3259		28		215		414			

PAH Analysis (Method 8270)		Sample Number													
		Date Sampled													
		Date Extracted													
		Date Analyzed													
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ng/g	333	200												
Acenaphthene	ng/g	333	400												
Fluorene	ng/g	333	1000												
Phenanthrene	ng/g	333	1000												
Anthracene	ng/g	333	1000												
Fluoranthene	ng/g	333	1000												
Pyrene	ng/g	333	1000												
Benzo(a)anthracene	ng/g	333	0.04												
Chrysene	ng/g	333	0.04												
Benzo(b)fluoranthene	ng/g	333	0.04												
Benzo(k)fluoranthene	ng/g	333	0.04												
Benzo(a)pyrene	ng/g	333	0.04												
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04												
Dibenz(a,h)anthracene	ng/g	333	1000												
Benzo(g,h,i)perylene	ng/g	333	0.04												
Total PAHs	ng/g														

ND=compound not detected NA = analysis not applicable for this site ng/g=ppb

J = estimated value is below the practical quantitation limit and above the method detection limit

E = estimated concentration is above the calibration range of the instrument

D = sample was diluted, see individual analytical results for corresponding detection limits

RE = ID suffix for re-extraction/re-analysis

Q=Qualifier

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

B = analyte was detected in an associated blank as well as in the sample

S = surrogate recovery is outside control limits

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

AB (or FB)= ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinsate sample

LQ = ID suffix for a liquid sample

N = ELCD was not functioning during analysis

* TCLP Alternative Guidance Values obtained from Stars Memo #1

Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

Analytical Results (Water)

Plattsburgh AFB - Project No. 17257

Page 2 of 4

On-Site Laboratory

Site: OWSPH

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

PAH Analysis (Method 8270)		Sample Number		BSOWSPH-LQ											
		Date Sampled		08/19/96											
		Date Extracted		08/22/96											
		Date Analyzed		08/24/96											
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ug/L	5	10	ND											
Acenaphthene	ug/L	5	20	ND											
Fluorene	ug/L	5	50	ND											
Phenanthrene	ug/L	5	50	ND											
Anthracene	ug/L	5	50	ND											
Fluoranthene	ug/L	5	50	ND											
Pyrene	ug/L	5	50	ND											
Benzo(a)anthracene	ug/L	5	0.002	ND											
Chrysene	ug/L	5	0.002	ND											
Benzo(b)fluoranthene	ug/L	5	0.002	ND											
Benzo(k)fluoranthene	ug/L	5	0.002	ND											
Benzo(a)pyrene	ug/L	5	0.002	ND											
Indeno(1,2,3-cd)pyrene	ug/L	5	0.002	ND											
Dibenz(a,h)anthracene	ug/L	5	50	ND											
Benzo(g,h,i)perylene	ug/L	5	0.002	ND											
Total PAHs	ug/L			ND											

PAH Analysis (Method 8270)		Sample Number													
		Date Sampled													
		Date Extracted													
		Date Analyzed													
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ug/L	5	10												
Acenaphthene	ug/L	5	20												
Fluorene	ug/L	5	50												
Phenanthrene	ug/L	5	50												
Anthracene	ug/L	5	50												
Fluoranthene	ug/L	5	50												
Pyrene	ug/L	5	50												
Benzo(a)anthracene	ug/L	5	0.002												
Chrysene	ug/L	5	0.002												
Benzo(b)fluoranthene	ug/L	5	0.002												
Benzo(k)fluoranthene	ug/L	5	0.002												
Benzo(a)pyrene	ug/L	5	0.002												
Indeno(1,2,3-cd)pyrene	ug/L	5	0.002												
Dibenz(a,h)anthracene	ug/L	5	50												
Benzo(g,h,i)perylene	ug/L	5	0.002												
Total PAHs	ug/L														

ND=compound not detected NA = analysis not applicable for this site ug/L = ppb
 J = estimated value is below the practical quantitation limit and above the method detection limit
 E = estimated concentration is above the calibration range of the instrument
 D = sample was diluted, see individual analytical results for corresponding detection limits
 RE = ID suffix for re-extraction/re-analysis
 * NYSD, Division of Water, Technical & Operational Guidance Series (TOGS)

Q=Qualifier
 EX = ID prefix for an excavation sample
 SP = ID prefix for a stockpile sample
 B = analyte was detected in an associated blank as well as in the sample
 S = surrogate recovery is outside control limits
 R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
 # Results indicate concentrations above the Guidance Values obtained from the NYSD, Division of Water TOGS

AB (or FB)= ID prefix for an ambient blank sample
 ER = ID prefix for an equipment rinsate sample
 LQ = ID suffix for a liquid sample
 N = ELCD was not functioning during analysis

Analytical Results (Soil)

Plattsburgh AFB - Project No. 17257

Page 3 of 4

On-Site Laboratory

Site: OWSPH

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

VOC Analysis (Method 8021)		Sample Number		OWSPH-E1		OWSPH-N1		OWSPH-S1		OWSPH-W1		SPPHOWS-1			
		Date Sampled		09/06/96		09/06/96		09/06/96		09/06/96		08/07/96			
		Date Extracted		09/16/96		09/16/96		09/16/96		09/16/96		08/18/96			
		Date Analyzed		09/16/96		09/16/96		09/16/96		09/16/96		08/18/96			
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ng/g	40	1000	ND		ND		ND	S	ND	S	1732.2	JD		
Benzene	ng/g	5	14	10.1		ND		7.0	S	16.2	# S	3994.0	# D		
Trichloroethylene	ng/g	5	700	ND		ND		ND	S	ND	S	ND	D		
Toluene	ng/g	5	100	ND		ND		1.9	JS	8.4	S	1089.7	# D		
Ethylbenzene	ng/g	5	100	2.4	J	ND		6.9	S	15.7	S	5822.7	# D		
m,p-Xylene	ng/g	5	100	ND		ND		15.2	S	76.9	S	18113.7	# D		
o-Xylene	ng/g	5	100	ND		ND		ND	S	22.0	S	1405.4	# BD		

VOC Analysis (Method 8021)		Sample Number													
		Date Sampled													
		Date Extracted													
		Date Analyzed													
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ng/g	40	1000												
Benzene	ng/g	5	14												
Trichloroethylene	ng/g	5	700												
Toluene	ng/g	5	100												
Ethylbenzene	ng/g	5	100												
m,p-Xylene	ng/g	5	100												
o-Xylene	ng/g	5	100												

ND=compound not detected NA = analysis not applicable for this site ng/g=ppb
J = estimated value is below the practical quantitation limit and above the method detection limit
E = estimated concentration is above the calibration range of the instrument
D = sample was diluted, see individual analytical results for corresponding detection limits
RE = ID suffix for re-extraction/re-analysis

Q=Qualifier EX = ID prefix for an excavation sample
SP = ID prefix for a stockpile sample
B = analyte was detected in an associated blank as well as in the sample
S = surrogate recovery is outside control limits
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

AB (or FB)= ID prefix for an ambient blank sample
ER = ID prefix for an equipment rinsate sample
LQ = ID suffix for a liquid sample
N = ELCD was not functioning during analysis

* TCLP Alternative Guidance Values obtained from Stars Memo #1

Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

Analytical Results (Water)

Plattsburgh AFB - Project No. 17257

Page 4 of 4

On-Site Laboratory

Site: OWSPH

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

VOC Analysis (Method 8021)		Sample Number		OWSPH-LQ2									
		Date Sampled		09/12/96									
		Date Extracted		09/15/96									
		Date Analyzed		09/15/96									
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ug/L	40	50	ND									
Benzene	ug/L	5	0.7	8.9	#								
Trichloroethylene	ug/L	5	5	ND									
Toluene	ug/L	5	5	ND									
Ethylbenzene	ug/L	5	5	1.4	J								
m,p-Xylene	ug/L	5	5	29.6	#								
o-Xylene	ug/L	5	5	9.9	#								

VOC Analysis (Method 8021)		Sample Number											
		Date Sampled											
		Date Extracted											
		Date Analyzed											
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ug/L	40	50										
Benzene	ug/L	5	0.7										
Trichloroethylene	ug/L	5	5										
Toluene	ug/L	5	5										
Ethylbenzene	ug/L	5	5										
m,p-Xylene	ug/L	5	5										
o-Xylene	ug/L	5	5										

ND=compound not detected NA = analysis not applicable for this site ug/L = ppb

J = estimated value is below the practical quantitation limit and above the method detection limit

E = estimated concentration is above the calibration range of the instrument

D = sample was diluted, see individual analytical results for corresponding detection limits

RE = ID suffix for re-extraction/re-analysis

* NYSDEC, Division of Water, Technical & Operational Guidance Series (TOGS)

Q=Qualifier

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

B = analyte was detected in an associated blank as well as in the sample

S = surrogate recovery is outside control limits

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water TOGS

AB (or FB)= ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinsate sample

LQ = ID suffix for a liquid sample

N = ELCD was not functioning during analysis

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : OWSPH-E1

Matrix : Soil/Solid

Site ID : OWSPH

Project No. : 17257

Date : 9/6/96

Time : 1120

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 9/16/96

Date Analyzed : 9/16/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	
Benzene	ng/g	5	14	10.1	
Trichloroethylene	ng/g	5	700	ND	
Toluene	ng/g	5	100	ND	
Ethylbenzene	ng/g	5	100	2.4	J
m,p-Xylene	ng/g	5	100	ND	
o-Xylene	ng/g	5	100	ND	

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 9/11/96

Date Analyzed : 9/13/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	ND	
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	ND	
Anthracene	ng/g	333	1000	ND	
Fluoranthene	ng/g	333	1000	ND	
Pyrene	ng/g	333	1000	ND	
Benzo(a)anthracene	ng/g	333	0.04	ND	
Chrysene	ng/g	333	0.04	ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND	
Benzo(a)pyrene	ng/g	333	0.04	ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			ND	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : BSOWSPH-LQ

Matrix : Aqueous

Site ID : OWSPH

Project No. : 17257

Date : 8/19/96

Time : 1350

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 8/22/96

Date Analyzed : 8/24/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ug/l	5	10	ND	
Acenaphthene	ug/l	5	20	ND	
Fluorene	ug/l	5	50	ND	
Phenanthrene	ug/l	5	50	ND	
Anthracene	ug/l	5	50	ND	
Fluoranthene	ug/l	5	50	ND	
Pyrene	ug/l	5	50	ND	
Benzo(a)anthracene	ug/l	5	0.002	ND	
Chrysene	ug/l	5	0.002	ND	
Benzo(b)fluoranthene	ug/l	5	0.002	ND	
Benzo(k)fluoranthene	ug/l	5	0.002	ND	
Benzo(a)pyrene	ug/l	5	0.002	ND	
Indeno(1,2,3-cd)pyrene	ug/l	5	0.002	ND	
Dibenz(a,h)anthracene	ug/l	5	50	ND	
Benzo(g,h,i)perylene	ug/l	5	0.002	ND	
Total PAHs	ug/l			ND	

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* NYSDC Groundwater Quality Standards or Guidance Values
indicates concentration above the NYSDC groundwater quality standards or guidance values

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : OWSPH-LQ2

Matrix : Aqueous

Site ID : OWSPH

Project No. : 17257

Date : 9/12/96

Time : 0745

Test Code: 8021	Lab : on-site				
Description : Volatiles					
Date Extracted : 9/15/96	Date Analyzed : 9/15/96				
Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ug/l	40	50	ND	
Benzene	ug/l	5	0.70	8.9	#
Trichloroethylene	ug/l	5	5	ND	
Toluene	ug/l	5	5	ND	
Ethylbenzene	ug/l	5	5	1.4	J
m,p-Xylene	ug/l	5	5	29.6	#
o-Xylene	ug/l	5	5	9.9	#

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* NYSDEC Groundwater Quality Standards or Guidance Values
indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : OWSPH-N1

Matrix : Soil/Solid

Site ID : OWSPH

Project No. : 17257

Date : 9/6/96

Time : 1140

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 9/16/96

Date Analyzed : 9/16/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	
Benzene	ng/g	5	14	ND	
Trichloroethylene	ng/g	5	700	ND	
Toluene	ng/g	5	100	ND	
Ethylbenzene	ng/g	5	100	ND	
m,p-Xylene	ng/g	5	100	ND	
o-Xylene	ng/g	5	100	ND	

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 9/11/96

Date Analyzed : 9/13/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	ND	
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	248	J
Anthracene	ng/g	333	1000	135	J
Fluoranthene	ng/g	333	1000	859	
Pyrene	ng/g	333	1000	673	
Benzo(a)anthracene	ng/g	333	0.04	283	#J
Chrysene	ng/g	333	0.04	273	#J
Benzo(b)fluoranthene	ng/g	333	0.04	188	#J
Benzo(k)fluoranthene	ng/g	333	0.04	166	#J
Benzo(a)pyrene	ng/g	333	0.04	168	#J
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	137	#J
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	129	#J
Total PAHs	ng/g			3259	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the Instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97

Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : OWSPH-S1

Matrix : Soil/Solid

Site ID : OWSPH

Project No. : 17257

Date : 9/6/96

Time : 1130

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 9/16/96 Date Analyzed : 9/16/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	S
Benzene	ng/g	5	14	7.0	S
Trichloroethylene	ng/g	5	700	ND	S
Toluene	ng/g	5	100	1.9	JS
Ethylbenzene	ng/g	5	100	6.9	S
m,p-Xylene	ng/g	5	100	15.2	S
o-Xylene	ng/g	5	100	ND	S

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 9/11/96 Date Analyzed : 9/13/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	28	J
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	ND	
Anthracene	ng/g	333	1000	ND	
Fluoranthene	ng/g	333	1000	ND	
Pyrene	ng/g	333	1000	ND	
Benzo(a)anthracene	ng/g	333	0.04	ND	
Chrysene	ng/g	333	0.04	ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND	
Benzo(a)pyrene	ng/g	333	0.04	ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			28	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
RE = ID suffix for re-extraction/re-analysis

* TCLP Alternative Guidance Values obtained from the Stars Memo #1

indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : OWSPH-W1

Matrix : Soil/Solid

Site ID : OWSPH

Project No. : 17257

Date : 9/6/96

Time : 1135

Test Code: 8021 Lab : on-site Description : Volatiles Date Extracted : 9/16/96 Date Analyzed : 9/16/96						Test Code: 8270 Lab : on-site Description : Semivolatiles Date Extracted : 9/11/96 Date Analyzed : 9/13/96					
Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag	Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	S	Naphthalene	ng/g	333	200	215	#J
Benzene	ng/g	5	14	16.2	#S	Acenaphthene	ng/g	333	400	ND	
Trichloroethylene	ng/g	5	700	ND	S	Fluorene	ng/g	333	1000	ND	
Toluene	ng/g	5	100	8.4	S	Phenanthrene	ng/g	333	1000	ND	
Ethylbenzene	ng/g	5	100	15.7	S	Anthracene	ng/g	333	1000	ND	
m,p-Xylene	ng/g	5	100	76.9	S	Fluoranthene	ng/g	333	1000	ND	
o-Xylene	ng/g	5	100	22.0	S	Pyrene	ng/g	333	1000	ND	
						Benzo(a)anthracene	ng/g	333	0.04	ND	
						Chrysene	ng/g	333	0.04	ND	
						Benzo(b)fluoranthene	ng/g	333	0.04	ND	
						Benzo(k)fluoranthene	ng/g	333	0.04	ND	
						Benzo(a)pyrene	ng/g	333	0.04	ND	
						Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
						Dibenz(a,h)anthracene	ng/g	333	1000	ND	
						Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
						Total PAHs	ng/g			215	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
RE = ID suffix for re-extraction/re-analysis
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : SPPHOWS-1

Matrix : Soil/Solid

Site ID : OWSPH

Project No. : 17257

Date : 8/7/96

Time : 1310

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 8/18/96

Date Analyzed : 8/18/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	2000	1000	1732.2	#JD
Benzene	ng/g	250	14	3994.0	#D
Trichloroethylene	ng/g	250	700	ND	D
Toluene	ng/g	250	100	1089.7	#D
Ethylbenzene	ng/g	250	100	5822.7	#D
m,p-Xylene	ng/g	250	100	18113.7	#D
o-Xylene	ng/g	250	100	1405.4	#BD

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 8/20/96

Date Analyzed : 8/22/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	414	#
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	ND	
Anthracene	ng/g	333	1000	ND	
Fluoranthene	ng/g	333	1000	ND	
Pyrene	ng/g	333	1000	ND	
Benzo(a)anthracene	ng/g	333	0.04	ND	
Chrysene	ng/g	333	0.04	ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND	
Benzo(a)pyrene	ng/g	333	0.04	ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			414	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
RE = ID suffix for re-extraction/re-analysis

* TCLP Alternative Guidance Values obtained from the Stars Memo #1

indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results - Blanks

Blank ID : PID3041

QC Batch : NA

Test : 8021 Lab : on-site
Matrix : Aqueous Units : ug/l
Date Extracted : 8/18/96 Date Analyzed : 8/18/96

Parameter	Result	Flag	DetectionLimit
MTBE	ND		40
Benzene	ND		5
Trichloroethylene	ND		5
Toluene	ND		5
Ethylbenzene	ND		5
m,p-Xylene	ND		5
o-Xylene	.64	J	5

PID = ID prefix for a volatile method blank GCM = ID prefix for a semivolatile method blank TB = ID prefix for a trip blank
J = estimated value is below the practical quantitation limit and above the method detection limit ug/l = ppb ng/g = ppb NA = not applicable

Soil Sample Collection Log
Plattsburgh AFB - Project # 17257/17499

Date: 8-7-96

Site: BS Bulk Storage - Port Henry NY

Pg. 1 of 12

Weather: 95° Sunny

Samplers: Mike SLOOF

Douglas

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Sample Description	# of Bottles
SPPH0WS-1	13:10		C	6'		Brown Black Soil	1x 4oz 2x 40ML
SPBS0WS-1	13:20		C	6'		Brown Grey	1x 4oz 2x 40ML
ABBS-T	13:30		G				1x 40ML
not analyzed							

Map Attached: Yes No

-Reference Points: Yes No

-Head Space Readings: Yes No

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis: VOCs SVOCs Other: _____

Split sample Collected: Yes No

Laboratory Destination: On Site COC # _____ Airbill # _____

Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs Cooler Temperature: _____

Relinquished by (dd/tt): Mike SLOOF 8-7-96 13:30 Received by (dd/tt): Mike SLOOF 8-7-96 13:48

Soil Sample Collection Log
Plattsburgh AFB - Project # 17257/17499

Pg. 2 of 6

Date: 8-19-96

Site: Bulk STORAGE

Weather: 83°F, Sunny

Samplers: M. SLACK

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Sample Description	# of Bottles
BSOWSPH	13:45		C	6'		Gray Black DARK Brown	2 x 40 mL 1 x 402
BSOWSPH	13:50		G	6'		Brown liquid (excavation)	1 x 1L 2 x 40 mL
ABBSOWPH	13:30		G	N/A		ambient blank	1 x 40 mL
Sample was not analyzed, sampling event is screening not confirmation							

Map Attached: Yes! No

-Reference Points:

-Head Space Readings:

Yes

Yes

No

No

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis: VOCs SVOCs Other: _____

Split sample Collected: Yes No

Laboratory Destination: _____ COC # on site Airbill # _____

Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs

Cooler Temperature: _____

Relinquished by (dd/tt): M. Slack

Received by (dd/tt): John P Kraft

8/20/96
0730

8/20/96
0730

Soil Sample Collection Log
Plattsburgh AFB - Project #17257/17499

Date: 9/6/96
 Weather: Sun 80°F

Douglas
 Site: Port Henry Oil/Water Separator
 Samplers: J. Shirley / G. Guinard

Pg. ³ of ⁶
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Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
SP-SS								
OWS-PH-E1	1120		C	4'			Soil from East wall	2x4oz
OWS-PH-N1	1140		C	4'			Soil from North wall	2x4oz
OWS-PH-S1	1130		C	4'			Soil from South wall	2x4oz
OWS-PH-W1	1135		C	4'			Soil from West wall	2x4oz

Map Attached: Yes No

-Reference Points: Yes No

-Head Space Readings: Yes No JS

Sample Type: Screening Confirmation

Disposal/Characterization

Requested Analysis:

VOCs

SVOCs

Other: _____

Split sample Collected:

Yes

No

Laboratory Destination: _____

COC #

On site

Airbill # _____

Duplicate Collected: Yes

No

Rinsate Collected: Yes

No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis:

VOCs

SVOCs

Cooler Temperature: 40C

Relinquished by (dd/tt):

[Signature]

ROS
9/6/96

Received by (dd/tt):

John P Kraft
1305
9/6/96

Soil Sample Collection Log
Plattsburgh AFB - Project #17257/17499

Date: 9/12/96

Site: ^{Douglas} Port ~~Harry~~ OWS

Pg. 4 of 6

Weather: Cloudy, 65°F

Samplers: GG, JS

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
OWSPH-L02	0745		G	6			excavation liquid	2x40mL

Map Attached: Yes No

-Reference Points:

Yes

No

-Head Space Readings:

Yes

No

Sample Type: Screening Confirmation

Disposal/Characterization

Requested Analysis:

VOCS

SVOCs

Other: _____

Split sample Collected:

Yes

No

Laboratory Destination: On-site

COC # _____

Airbill # _____

Duplicate Collected: Yes

No

Rinsate Collected: Yes

No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis:

VOCS

SVOCs

Cooler Temperature: _____

Relinquished by (dd/lt):

A. Kummer

9/12/96

Received by (dd/lt):

John P. Knoff

0800

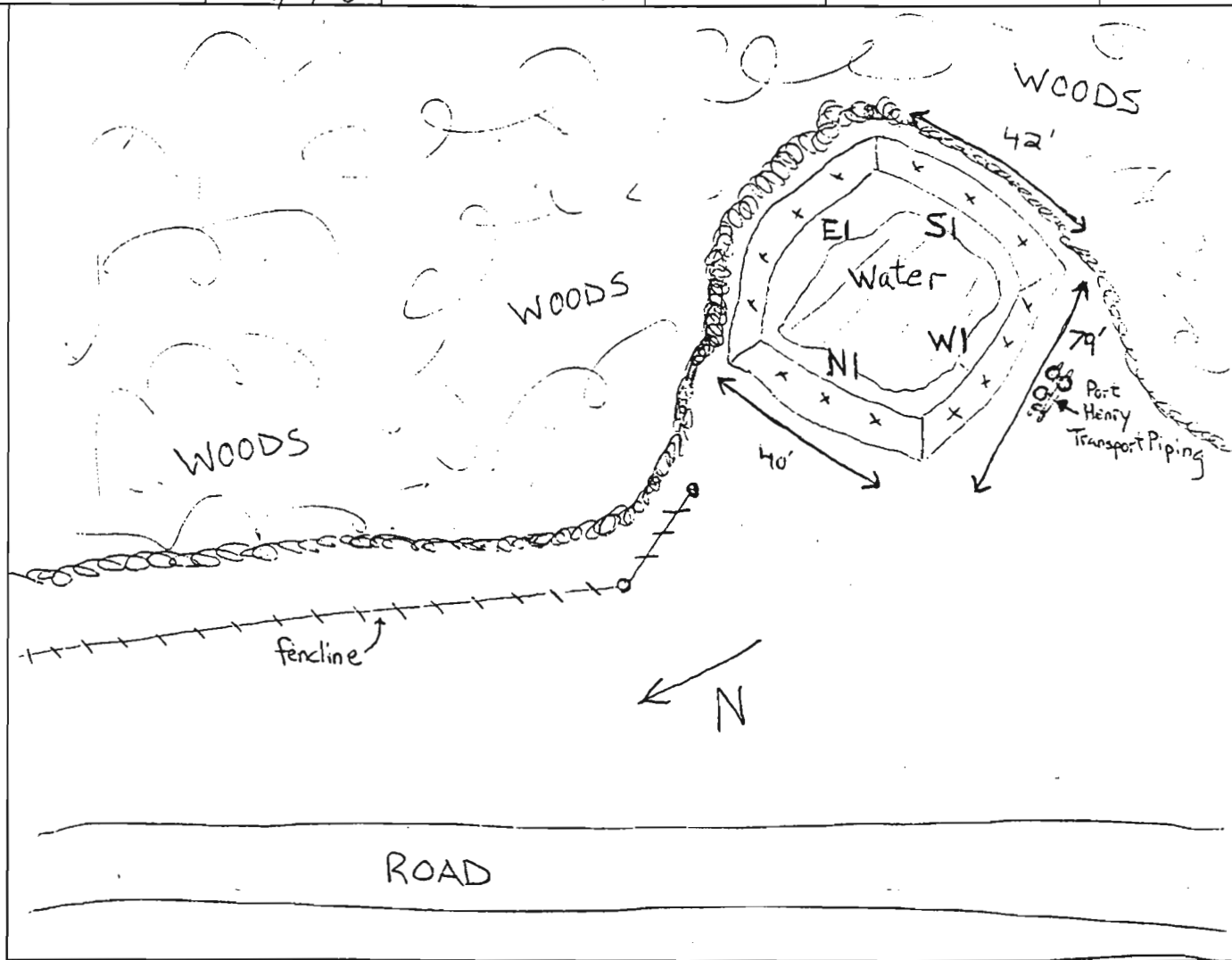
0800

9/12/96



Page 5 of 6

Proj. No. 17257	Client AFCEE	Location Port Henry ^{Douglas} OWS	Subject Composite Sampling
Preparer's Initials GG	Date 9/6/96	Reviewer's Initials AH	Date
Approver's Initials		Date	



Comments

- Not to scale

x composite sample locations

4 composites collected, one from each sidewall

A grab sample was collected from the water at the bottom of the excavation



Page 6 of 6

Proj. No. 17257	Client AFCEE	Location Douglas Port Henry CWS	Subject Headspace Samples
Preparer's Initials GG	Date 8/14/96	Reviewer's Initials AA	Date
Approver's Initials		Date	

PID
Readings

8/8/96

- (S) >2000ppm
- (E) >2000ppm
- (B) >2000ppm

8/9/96

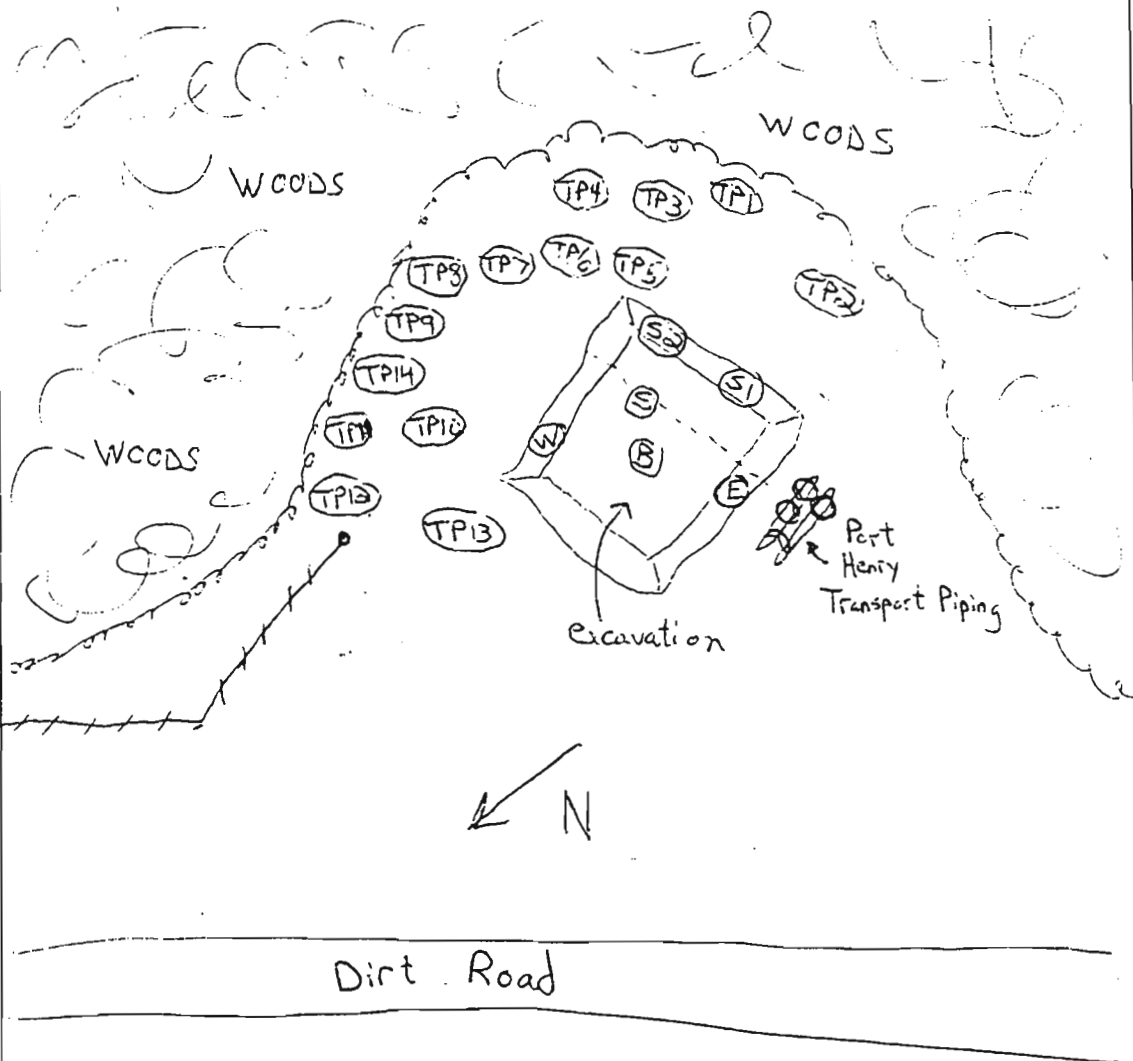
- (S1) >2000ppm
- (S2) >2000ppm
- (TP1) 1052 ppm
- (TP2) 652 ppm

8/13/96

- (TP3) >2000ppm
- (TP4) 163 ppm
- (TP5) >2000ppm
- (TP6) >2000ppm
- (TP7) 1163 ppm
- (TP8) >2000ppm

8/14/96

- (TP9) >2000ppm
- (TP10) >2000ppm
- (TP11) >2000ppm
- (TP12) ND
- (TP13) >2000ppm
- (TP14) >2000ppm
- (W) >2000ppm



Comments

Not to scale

----- Former south wall of excavation

(TP) Test Pit location

+++++ fenceline

B.3 OWS-2073 (BULK STORAGE AREA OWS)

OWS-2073 CLOSURE REPORT
OHM REMEDIATION SERVICES CORP.
PLATTSBURGH AIR FORCE BASE
Delivery Order 0003

OHM Project No. 17257

Date: 04/18/97

OWS No.: OWS-2073

OWS Size: 6,000-Gallon

OWS Location: Bulk Storage Area

TABLE OF CONTENTS

Data Summary Sheet

- Site Location
- OWS Information
- Sources of Contamination
- Site Geology
- Soil Quality Analytical Data
- Groundwater Quality Analytical Data

Attachment I - Sampling and Analysis Site Reports

- Analytical Results (Soil)
- Analytical Results (Liquid)
- Split Sample Analytical Results - Not Applicable
- Soil Sample Collection Log
- Sample Location Map (Site Map)

Comments:

One 6,000-gallon oil/water separator (OWS), holding tank, and piping were excavated and removed from the east side of the Bulk Fuel Storage Area in August 1996. This OWS was also referred to as the Bulk Storage Area OWS. Soil around the OWS was excavated to a depth of approximately 5 feet. Groundwater was encountered at a depth of approximately 4 feet. Staining and hydrocarbon odors were noted at the time of removal. On 08/07/96, one soil/sludge composite sample was collected from the stockpile containing the contents of the OWS. On 09/04/96, one composite soil sample was collected from each of the four sidewalls of the excavation and one water sample was collected from the bottom of the excavation. The samples were analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). No VOCs or PAHs were detected in the soil or groundwater samples at concentrations which exceed the NYSDEC TCLP Alternative Guidance Values or NYSDEC Class GA Groundwater Standards, respectively. The excavated soil and sludge were transported to the on-site treatment cell and the excavation was backfilled to grade with imported clean fill.

DATA SUMMARY FOR TECHNICAL REPORT SUBMITTAL

Date: 04/18/97

OWS No.: OWS-2073 OWS Location : Bulk Storage Area

Street Address: Connecticut Road, Bulk Storage Area
Plattsburgh AFB, NY 12901

Consultant Information

Consultant Completing Report: Parsons ES

Contact Person and Telephone No: Edward J. Ashton (315) 451-9560

Mailing Address: 290 Elwood Davis Road, Suite 312
Liverpool, NY 13088

Site Location/Description	Yes/No	Yes/No
Municipal water in area ?	<u>Yes</u>	Basements (within 250 feet)? <u>No</u>
Municipal water supplied to site?	<u>Yes</u>	Water supply wells (within 1,000 feet)? <u>No</u>
Municipal sewer in area?	<u>Yes</u>	Surface water body (within 1,000 feet)? <u>Yes</u>
Storm sewer in area?	<u>No</u>	

OWS Information OWS Dimension: 6' dia. x 28' L Mat'l of Const.: Tank - Steel Piping - 12" Galvanized

OWS No.	Product Type	<u>OWS Condition</u> 0 - Perforated 4 - No Corrosion	Capacity (Gallons)	Quantity Removed (Gallons)	OWS Removed Yes/No	<u>Piping Condition</u> 0 - Perforated 4 - No Corrosion	Piping Removed Yes/No
2073	OW	4	6,000	1,000	Yes	4	Yes

* - HO = Heating Oil, G = Gasoline, D = Diesel, UG = Unleaded Gas, OW = Oil and Water, ANB = Acid Neutralization Basin

Suspected Sources of Contamination 6,000-gallon OWS
 Eliminated? Yes

Free phase product encountered? Yes _____ Thickness _____ No xx _____
 Contaminated soil encountered? Yes xx _____ Amt. excavated (YD³) ~416 No _____
 Did sample analysis indicate groundwater contamination above NYSDEC Groundwater Standards? No
 Did sample analysis indicate attainment of soil cleanup criteria? Yes

DATA SUMMARY FOR TECHNICAL REPORT SUBMITTAL

Site Geology

Description	Depth (Feet)
Brown Sand with Minor Silt	0 - 5 (Bottom of excavation)
Depth to bedrock:	> 50 feet
Average depth to groundwater:	4 feet
General groundwater flow direction:	East, toward Lake Champlain

Soil Quality Analytical Data (Excavation Confirmation Samples)

Sample Designation	EXBSOWSE	EXBSOWSN	EXBSOWSS	EXBSOWSW	
Date Sampled	09/04/96	09/04/96	09/04/96	09/04/96	
Parameters	Method	Concentrations (ppb)			
MTBE	8021	ND	ND	ND	ND
Benzene	8021	ND	ND	ND	ND
Trichloroethylene	8021	ND	ND	ND	ND
Toluene	8021	ND	ND	ND	ND
Ethylbenzene	8021	ND	ND	ND	ND
Xylenes (total)	8021	ND	ND	ND	ND
Total BTEX	8021	ND	ND	ND	ND
Naphthalene	8270	ND	ND	ND	ND
Total PAHs	8270	ND	ND	ND	ND
Split sample results shown in <i>italic</i> .					

Groundwater Quality Analytical Data (Excavation Confirmation Samples)

Sample Designation	EXBSOWSLQ				
Date Sampled	09/04/96				
Parameters	Method	Concentrations (ppb)			
MTBE	8021	ND			
Benzene	8021	ND			
Trichloroethylene	8021	ND			
Toluene	8021	ND			
Ethylbenzene	8021	ND			
Xylenes (total)	8021	ND			
Total BTEX	8021	ND			
Naphthalene	8270	ND			
Total PAHs	8270	ND			

**Sampling & Analysis Site Report
On-Site Laboratory
Plattsburgh AFB - Project #17257**

Site: Bulk Storage Area OWS (OWS-2073)

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

Sample Collection:

-On 08/07/96, a composite sample (SPBSOWS-1) was collected from the soil/sludge stockpile containing the contents of the Bulk Storage Area oil/water separator (OWS) (OWS-2073). The material was transported to the on-site treatment cell after the sampling event. The excavated soil from the OWS removal was also transported to the on-site treatment cell, therefore, an additional soil stockpile sample was not collected.

-On 09/04/96, one composite soil sample was collected from each of the four sidewalls of the excavation (EXBSOWSN, E, W, and S). A grab sample (EXBSOWSLQ) was collected from the groundwater in the bottom of the excavation. An ambient blank (ABBSOWSLQ) was also collected during this sampling event for QC purposes.

On-Site analysis:

-The samples were analyzed for VOCs and PAHs by EPA Methods 8021 and 8270, respectively. The ambient blank, ABBSOWSLQ, was not analyzed because no VOCs were detected in the field samples.

Off-Site Analysis:

-No samples were shipped off site for analysis.

On-Site Laboratory

Site: OWSBSA

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

PAH Analysis (Method 8270)		Sample Number		EXBSOWSE		EXBSOWSN		EXBSOWSS		EXBSOWSW		SPBSOWS-1	
		Date Sampled		09/04/96		09/04/96		09/04/96		09/04/96		08/07/96	
		Date Extracted		09/10/96		09/10/96		09/10/96		09/10/96		08/20/96	
		Date Analyzed		09/12/96		09/12/96		09/12/96		09/12/96		08/22/96	
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ng/g	333	200	ND		ND		ND		ND		ND	
Acenaphthene	ng/g	333	400	ND		ND		ND		ND		ND	
Fluorene	ng/g	333	1000	ND		ND		ND		ND		ND	
Phenanthrene	ng/g	333	1000	ND		ND		ND		ND		ND	
Anthracene	ng/g	333	1000	ND		ND		ND		ND		ND	
Fluoranthene	ng/g	333	1000	ND		ND		ND		ND		ND	
Pyrene	ng/g	333	1000	ND		ND		ND		ND		ND	
Benzo(a)anthracene	ng/g	333	0.04	ND		ND		ND		ND		ND	
Chrysene	ng/g	333	0.04	ND		ND		ND		ND		ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND		ND		ND		ND		ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND		ND		ND		ND		ND	
Benzo(a)pyrene	ng/g	333	0.04	ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND		ND		ND		ND		ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND		ND		ND		ND		ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND		ND		ND		ND		ND	
Total PAHs	ng/g			ND		ND		ND		ND		ND	

PAH Analysis (Method 8270)		Sample Number											
		Date Sampled											
		Date Extracted											
		Date Analyzed											
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ng/g	333	200										
Acenaphthene	ng/g	333	400										
Fluorene	ng/g	333	1000										
Phenanthrene	ng/g	333	1000										
Anthracene	ng/g	333	1000										
Fluoranthene	ng/g	333	1000										
Pyrene	ng/g	333	1000										
Benzo(a)anthracene	ng/g	333	0.04										
Chrysene	ng/g	333	0.04										
Benzo(b)fluoranthene	ng/g	333	0.04										
Benzo(k)fluoranthene	ng/g	333	0.04										
Benzo(a)pyrene	ng/g	333	0.04										
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04										
Dibenz(a,h)anthracene	ng/g	333	1000										
Benzo(g,h,i)perylene	ng/g	333	0.04										
Total PAHs	ng/g												

ND=compound not detected

NA = analysis not applicable for this site

ng/g=ppb

Q=Qualifier

EX = ID prefix for an excavation sample

AB (or FB)= ID prefix for an ambient blank sample

J = estimated value is below the practical quantitation limit and above the method detection limit

SP = ID prefix for a stockpile sample

ER = ID prefix for an equipment rinsate sample

E = estimated concentration is above the calibration range of the instrument

B = analyte was detected in an associated blank as well as in the sample

LQ = ID suffix for a liquid sample

D = sample was diluted, see individual analytical results for corresponding detection limits

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

* TCLP Alternative Guidance Values obtained from Stars Memo #1

Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

On-Site Laboratory

Site: OWSBSA

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

PAH Analysis (Method 8270)		Sample Number		EXBSOWSLQ									
		Date Sampled		09/04/96									
		Date Extracted		09/05/96									
		Date Analyzed		09/10/96									
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ug/L	5	10	ND									
Acenaphthene	ug/L	5	20	ND									
Fluorene	ug/L	5	50	ND									
Phenanthrene	ug/L	5	50	ND									
Anthracene	ug/L	5	50	ND									
Fluoranthene	ug/L	5	50	ND									
Pyrene	ug/L	5	50	ND									
Benzo(a)anthracene	ug/L	5	0.002	ND									
Chrysene	ug/L	5	0.002	ND									
Benzo(b)fluoranthene	ug/L	5	0.002	ND									
Benzo(k)fluoranthene	ug/L	5	0.002	ND									
Benzo(a)pyrene	ug/L	5	0.002	ND									
Indeno(1,2,3-cd)pyrene	ug/L	5	0.002	ND									
Dibenz(a,h)anthracene	ug/L	5	50	ND									
Benzo(g,h,i)perylene	ug/L	5	0.002	ND									
Total PAHs	ug/L			ND									

PAH Analysis (Method 8270)		Sample Number											
		Date Sampled											
		Date Extracted											
		Date Analyzed											
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Naphthalene	ug/L	5	10										
Acenaphthene	ug/L	5	20										
Fluorene	ug/L	5	50										
Phenanthrene	ug/L	5	50										
Anthracene	ug/L	5	50										
Fluoranthene	ug/L	5	50										
Pyrene	ug/L	5	50										
Benzo(a)anthracene	ug/L	5	0.002										
Chrysene	ug/L	5	0.002										
Benzo(b)fluoranthene	ug/L	5	0.002										
Benzo(k)fluoranthene	ug/L	5	0.002										
Benzo(a)pyrene	ug/L	5	0.002										
Indeno(1,2,3-cd)pyrene	ug/L	5	0.002										
Dibenz(a,h)anthracene	ug/L	5	50										
Benzo(g,h,i)perylene	ug/L	5	0.002										
Total PAHs	ug/L												

ND=compound not detected NA = analysis not applicable for this site ug/L=ppb

J = estimated value is below the practical quantitation limit and above the method detection limit

E = estimated concentration is above the calibration range of the instrument

D = sample was diluted, see individual analytical results for corresponding detection limits

* NYSDEC, Division of Water, Technical & Operational Guidance Series (TOGS)

Q=Qualifier

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

B = analyte was detected in an associated blank as well as in the sample

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water TOGS

AB (or FB)= ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinsate sample

LQ = ID suffix for a liquid sample

On-Site Laboratory

Site: OWSBSA

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

VOC Analysis (Method 8021)		Sample Number		EXBSOWSE		EXBSOWSN		EXBSOWSS		EXBSOWSW		SPBSOWS-1	
		Date Sampled		09/04/96		09/04/96		09/04/96		09/04/96		08/07/96	
		Date Extracted		09/15/96		09/16/96		09/15/96		09/16/96		08/18/96	
		Date Analyzed		09/15/96		09/16/96		09/15/96		09/16/96		08/18/96	
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ng/g	40	1000	ND		ND		ND		ND		ND	
Benzene	ng/g	5	14	ND		ND		ND		ND		ND	
Trichloroethylene	ng/g	5	700	ND		ND		ND		ND		ND	
Toluene	ng/g	5	100	ND		ND		ND		ND		ND	
Ethylbenzene	ng/g	5	100	ND		ND		ND		ND		ND	
m,p-Xylene	ng/g	5	100	ND		ND		ND		ND		ND	
o-Xylene	ng/g	5	100	ND		ND		ND		ND		ND	

VOC Analysis (Method 8021)		Sample Number											
		Date Sampled											
		Date Extracted											
		Date Analyzed											
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ng/g	40	1000										
Benzene	ng/g	5	14										
Trichloroethylene	ng/g	5	700										
Toluene	ng/g	5	100										
Ethylbenzene	ng/g	5	100										
m,p-Xylene	ng/g	5	100										
o-Xylene	ng/g	5	100										

ND=compound not detected NA = analysis not applicable for this site ng/g=ppb

Q=Qualifier

EX = ID prefix for an excavation sample

AB (or FB)= ID prefix for an ambient blank sample

J = estimated value is the below practical quantitation limit and above the method detection limit

SP = ID prefix for a stockpile sample

ER = ID prefix for an equipment rinsate sample

E = estimated concentration is above the calibration range of the instrument

B = analyte was detected in an associated blank as well as in the sample

LQ = ID suffix for a liquid sample

D = sample was diluted, see individual analytical results for corresponding detection limits

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

* TCLP Alternative Guidance Values obtained from Stars Memo #1

Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

On-Site Laboratory

Site: OWSBSA

Revised Report Date: 04/18/97

Original Report Date: 09/16/96

VOC Analysis (Method 8021)		Sample Number		EXBSOWSLQ									
		Date Sampled		09/04/96									
		Date Extracted		09/15/96									
		Date Analyzed		09/15/96									
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ug/L	40	50	ND									
Benzene	ug/L	5	0.7	ND									
Trichloroethylene	ug/L	5	5	ND									
Toluene	ug/L	5	5	ND									
Ethylbenzene	ug/L	5	5	ND									
m,p-Xylene	ug/L	5	5	ND									
o-Xylene	ug/L	5	5	ND									

VOC Analysis (Method 8021)		Sample Number											
		Date Sampled											
		Date Extracted											
		Date Analyzed											
Compound	Concentration Units	Detection Limit	Guidance Values*	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
MTBE	ug/L	40	50										
Benzene	ug/L	5	0.7										
Trichloroethylene	ug/L	5	5										
Toluene	ug/L	5	5										
Ethylbenzene	ug/L	5	5										
m,p-Xylene	ug/L	5	5										
o-Xylene	ug/L	5	5										

ND=compound not detected NA = analysis not applicable for this site ug/L=ppb

J = estimated value is below the practical quantitation limit and above the method detection limit

E = estimated concentration is above the calibration range of the instrument

D = sample was diluted, see individual analytical results for corresponding detection limits

* NYSDEC, Division of Water, Technical & Operational Guidance Series (TOGS)

Q=Qualifier

B = analyte was detected in an associated blank as well as in the sample

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water TOGS

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

AB (or FB)= ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinsate sample

LQ = ID suffix for a liquid sample

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : EXBSOWSE

Matrix : Soil/Solid

Site ID : OWSBSA

Project No. : 17257

Date : 9/4/96

Time : 1050

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 9/15/96

Date Analyzed : 9/15/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	
Benzene	ng/g	5	14	ND	
Trichloroethylene	ng/g	5	700	ND	
Toluene	ng/g	5	100	ND	
Ethylbenzene	ng/g	5	100	ND	
m,p-Xylene	ng/g	5	100	ND	
o-Xylene	ng/g	5	100	ND	

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 9/10/96

Date Analyzed : 9/12/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	ND	
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	ND	
Anthracene	ng/g	333	1000	ND	
Fluoranthene	ng/g	333	1000	ND	
Pyrene	ng/g	333	1000	ND	
Benzo(a)anthracene	ng/g	333	0.04	ND	
Chrysene	ng/g	333	0.04	ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND	
Benzo(a)pyrene	ng/g	333	0.04	ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			ND	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : EXBSOWSN

Matrix : Soil/Solid

Site ID : OWSBSA

Project No. : 17257

Date : 9/4/96

Time : 1030

Test Code: 8021 Lab: on-site						Test Code: 8270 Lab: on-site					
Description : Volatiles						Description : Semivolatiles					
Date Extracted : 9/16/96			Date Analyzed : 9/16/96			Date Extracted : 9/10/96			Date Analyzed : 9/12/96		
Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag	Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND		Naphthalene	ng/g	333	200	ND	
Benzene	ng/g	5	14	ND		Acenaphthene	ng/g	333	400	ND	
Trichloroethylene	ng/g	5	700	ND		Fluorene	ng/g	333	1000	ND	
Toluene	ng/g	5	100	ND		Phenanthrene	ng/g	333	1000	ND	
Ethylbenzene	ng/g	5	100	ND		Anthracene	ng/g	333	1000	ND	
m,p-Xylene	ng/g	5	100	ND		Fluoranthene	ng/g	333	1000	ND	
o-Xylene	ng/g	5	100	ND		Pyrene	ng/g	333	1000	ND	
						Benzo(a)anthracene	ng/g	333	0.04	ND	
						Chrysene	ng/g	333	0.04	ND	
						Benzo(b)fluoranthene	ng/g	333	0.04	ND	
						Benzo(k)fluoranthene	ng/g	333	0.04	ND	
						Benzo(a)pyrene	ng/g	333	0.04	ND	
						Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
						Dibenz(a,h)anthracene	ng/g	333	1000	ND	
						Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
						Total PAHs	ng/g			ND	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : EXBSOWSS

Matrix : Soil/Solid

Site ID : OWSBSA

Project No. : 17257

Date : 9/4/96

Time : 1045

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 9/15/96

Date Analyzed : 9/15/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	
Benzene	ng/g	5	14	ND	
Trichloroethylene	ng/g	5	700	ND	
Toluene	ng/g	5	100	ND	
Ethylbenzene	ng/g	5	100	ND	
m,p-Xylene	ng/g	5	100	ND	
o-Xylene	ng/g	5	100	ND	

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 9/10/96

Date Analyzed : 9/12/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	ND	
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	ND	
Anthracene	ng/g	333	1000	ND	
Fluoranthene	ng/g	333	1000	ND	
Pyrene	ng/g	333	1000	ND	
Benzo(a)anthracene	ng/g	333	0.04	ND	
Chrysene	ng/g	333	0.04	ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND	
Benzo(a)pyrene	ng/g	333	0.04	ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			ND	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

* TCLP Alternative Guidance Values obtained from the Stars Memo #1

indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : EXBSOWSW

Matrix : Soil/Solid

Site ID : OWSBSA

Project No. : 17257

Date : 9/4/96

Time : 1040

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 9/16/96

Date Analyzed : 9/16/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	
Benzene	ng/g	5	14	ND	
Trichloroethylene	ng/g	5	700	ND	
Toluene	ng/g	5	100	ND	
Ethylbenzene	ng/g	5	100	ND	
m,p-Xylene	ng/g	5	100	ND	
o-Xylene	ng/g	5	100	ND	

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 9/10/96

Date Analyzed : 9/12/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	ND	
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	ND	
Anthracene	ng/g	333	1000	ND	
Fluoranthene	ng/g	333	1000	ND	
Pyrene	ng/g	333	1000	ND	
Benzo(a)anthracene	ng/g	333	0.04	ND	
Chrysene	ng/g	333	0.04	ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND	
Benzo(a)pyrene	ng/g	333	0.04	ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			ND	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : EXBSOWSLQ

Matrix : Aqueous

Site ID : OWSBSA

Project No. : 17257

Date : 9/4/96

Time : 1100

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 9/15/96

Date Analyzed : 9/15/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ug/l	40	50	ND	
Benzene	ug/l	5	0.70	ND	
Trichloroethylene	ug/l	5	5	ND	
Toluene	ug/l	5	5	ND	
Ethylbenzene	ug/l	5	5	ND	
m,p-Xylene	ug/l	5	5	ND	
o-Xylene	ug/l	5	5	ND	

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 9/5/96

Date Analyzed : 9/10/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ug/l	5	10	ND	
Acenaphthene	ug/l	5	20	ND	
Fluorene	ug/l	5	50	ND	
Phenanthrene	ug/l	5	50	ND	
Anthracene	ug/l	5	50	ND	
Fluoranthene	ug/l	5	50	ND	
Pyrene	ug/l	5	50	ND	
Benzo(a)anthracene	ug/l	5	0.002	ND	
Chrysene	ug/l	5	0.002	ND	
Benzo(b)fluoranthene	ug/l	5	0.002	ND	
Benzo(k)fluoranthene	ug/l	5	0.002	ND	
Benzo(a)pyrene	ug/l	5	0.002	ND	
Indeno(1,2,3-cd)pyrene	ug/l	5	0.002	ND	
Dibenz(a,h)anthracene	ug/l	5	50	ND	
Benzo(g,h,i)perylene	ug/l	5	0.002	ND	
Total PAHs	ug/l			ND	

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* NYSDEC Groundwater Quality Standards or Guidance Values
indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/18/97
Original Report Date: 9/16/96

Plattsburgh AFB Analytical Results

SampleID : SPBSOWS-1

Matrix : Soil/Solid

Site ID : OWSBSA

Project No. : 17257

Date : 8/7/96

Time : 1320

Test Code: 8021 Lab : on-site

Description : Volatiles

Date Extracted : 8/18/96

Date Analyzed : 8/18/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
MTBE	ng/g	40	1000	ND	
Benzene	ng/g	5	14	ND	
Trichloroethylene	ng/g	5	700	ND	
Toluene	ng/g	5	100	ND	
Ethylbenzene	ng/g	5	100	ND	
m,p-Xylene	ng/g	5	100	ND	
o-Xylene	ng/g	5	100	ND	

Test Code: 8270 Lab : on-site

Description : Semivolatiles

Date Extracted : 8/20/96

Date Analyzed : 8/22/96

Parameter	Units	Detection Limit	Regulatory Limit *	Result	DataFlag
Naphthalene	ng/g	333	200	ND	
Acenaphthene	ng/g	333	400	ND	
Fluorene	ng/g	333	1000	ND	
Phenanthrene	ng/g	333	1000	ND	
Anthracene	ng/g	333	1000	ND	
Fluoranthene	ng/g	333	1000	ND	
Pyrene	ng/g	333	1000	ND	
Benzo(a)anthracene	ng/g	333	0.04	ND	
Chrysene	ng/g	333	0.04	ND	
Benzo(b)fluoranthene	ng/g	333	0.04	ND	
Benzo(k)fluoranthene	ng/g	333	0.04	ND	
Benzo(a)pyrene	ng/g	333	0.04	ND	
Indeno(1,2,3-cd)pyrene	ng/g	333	0.04	ND	
Dibenz(a,h)anthracene	ng/g	333	1000	ND	
Benzo(g,h,i)perylene	ng/g	333	0.04	ND	
Total PAHs	ng/g			ND	

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample
* TCLP Alternative Guidance Values obtained from the Stars Memo #1
indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Soil Sample Collection Log
Plattsburgh AFB - Project #1725717499

Pg. 1 of 4

Date: 8-7-96

Site: BS Bulk Storage

Weather: 95° sunny

Samplers: Mike SCAOC

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt. Ref. Pt.	Sample Description	# of Bottles
SPPHDS-1	13:10		C	6'		Brown Black Soil	1x 4 oz 2x 40 mL
SPBSOWS-1	13:20		C	6'		Brown grey	1x 4 oz 2x 40 mL
ABBS-1	13:30		G	NA		ambient blank	1x 40 mL
not run (not a confirmation sampling event)							

Map Attached: Yes No

-Reference Points: Yes No

-Head Space Readings: Yes No

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis: VOCs SVOCs Other: _____

Split sample Collected: Yes No

Laboratory Destination: On-Site COC # _____ Airbill # _____

Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs Cooler Temperature: _____

Relinquished by (dd/tt): Mike SCAOC 8-7-96 13:30 Received by (dd/tt): Mike SCAOC 8-7-96 1348

Soil Sample Collection Log
Plattsburgh AFB - Project # 17257/17499

Date: 9/4/96
 Weather: Sun 75°F

Site: Bulk Storage / Oil Water Separator
 Samplers: J. Shurk
 Pg. 2 of 4

Sample ID	Time	PID Screen	Comp/ Grab	Sample Depth (ft)	Coordinates Ref. Pt.	Coordinates Ref. Pt.	Sample Description	# of Bottles
ExBS05N	1030	-	C	3'			Soil from North Wall	2x40m 1x40m
ExBS05W	1040	-	C	3'			Soil from West Wall	2x40m 1x40m
ExBS05S	1045	-	C	3'			Soil from South Wall	2x40m 1x40m
ExBS05E	1050	-	C	3'			Soil from East Wall	2x40m 1x40m
ExBS05LQ	1100		G	4'			Liquid from Excavation	2x40m 2x1 liter
ABBS05LQ	1020		G	-			Ambient Blank	2x40m
not run								

Map Attached: ☒ Yes ☐ No

-Reference Points: ☒ Yes ☐ No
 -Head Space Readings: ☒ Yes ☐ No

Sample Type: ☒ Screening ☒ Confirmation ☐ Disposal/Characterization

Requested Analysis: ☒ VOCs ☒ SVOCs Other: _____

Split sample Collected: ☐ Yes ☒ No

Laboratory Destination: _____ COC # 6 on Site Airbill # _____

Duplicate Collected: Yes ☒ No ☐ Rinsate Collected: ☒ Yes ☒ No ☐

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: ☒ VOCs ☒ SVOCs Cooler Temperature: _____
 Relinquished by (dd/tt): [Signature] 1250 9/4/96 Received by (dd/tt): [Signature] 1250 9/4/96

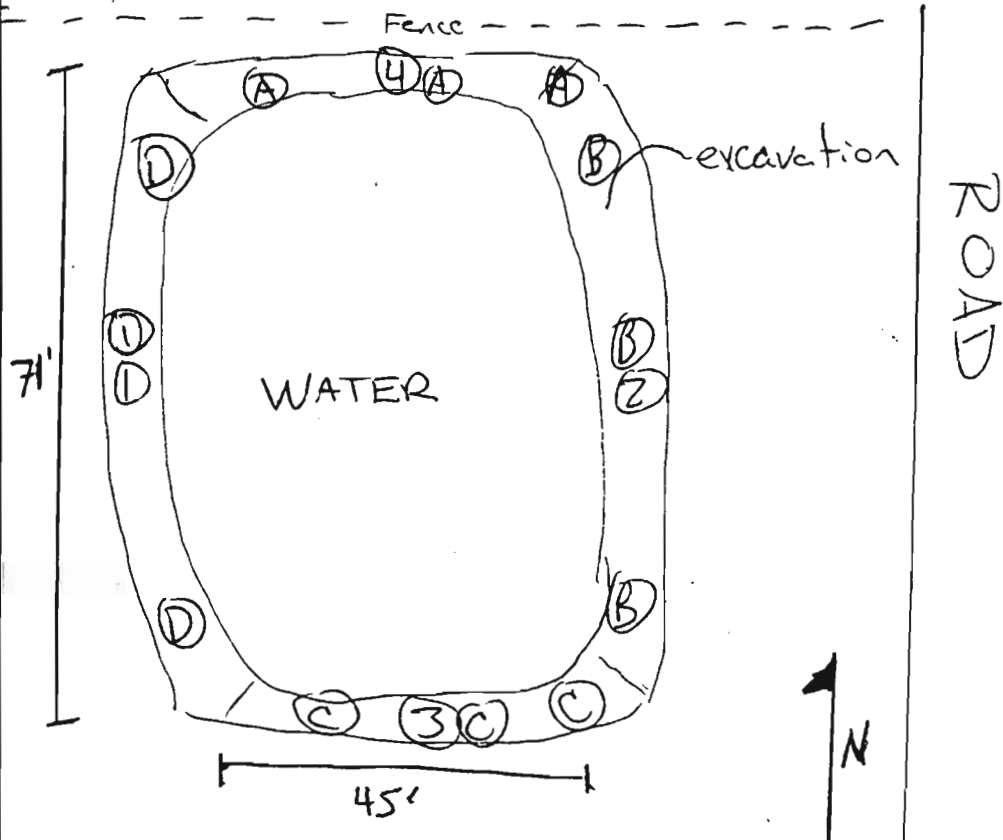


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Proj. No. <u>17257</u>	Client <u>AFCEE</u>	Location <u>Bulk Storage</u> <u>BSOWS - 8</u>	Subject <u>HeckSpace/Confirmation Sampling</u>
Preparer's Initials <u>JS</u>	Date <u>9/4/96</u>	Reviewer's Initials	Date <u>11</u>
Approver's Initials		Date	

PID
Readings

- ① ND
- ② ND
- ③ ND
- ④ ND



Comments - Not to Scale

- A denotes composite sample locations on North wall
- B denotes composite sample locations on East wall
- C denotes composite sample locations on South wall
- D denotes composite sample locations on West wall
- Water in excavation
- A grab sample was taken from the water



OHM Remediation
Services Corp.

COMPUTATION SHEET

Form No. 0048
Midwest Tech. Servs.
Rev. 08/89

Page 4 of 4

Proj. No. <u>17257</u>	Client <u>AFCEE</u>	Location <u>Bulk Storage</u>	Subject <u>HEADSPACE / Confirmation Sampling</u>
Preparer's Initials <u>MS</u>	Date <u>8-27-96</u>	Reviewer's Initials	Date
Initials		Date	

PID READINGS

8-8-96

- ① 220 ppm
- ② 400 ppm
- ③ 80 ppm
- ④ 217 ppm

PID READINGS

8-19-96

- ① 262 ppm
- ② 75 ppm
- ③ 34 ppm
- ④ 146 ppm

PID READINGS

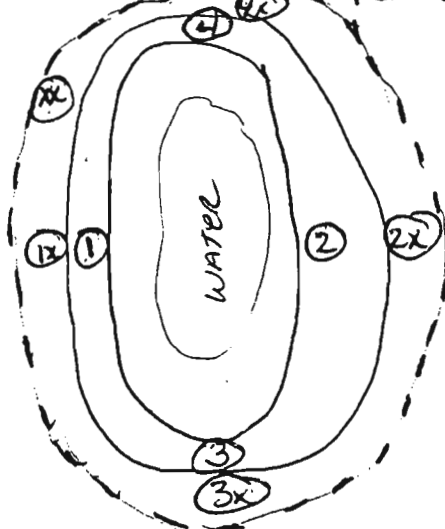
8-27-96

- ① ND
- ② ND
- ③ 32 ppm
- ④ 62 ppm

XX 2ND SAMPLE TAKEN

AT WEST WALL
600 ppm

~~~~~ Fence ~~~~~



ROAD

COMMENTS — NOT DRAW TO SCALE

----- Broken Line denotes EXCAVATION  
was dug BACK 4' and sample  
1X, 2X, 3X, 4X — denotes second Headspace Samples

— WATER IN EXCAVATION  
XX — indicates second sample taken in  
west wall

***APPENDIX C***  
***GEOPROBE<sup>®</sup> ANALYTICAL RESULTS***

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**C.1 ANALYTICAL SUMMARY TABLE**

**C.2 ANALYTICAL DATA SHEETS**

## **C.1 ANALYTICAL SUMMARY TABLE**

## Analytical Results (Soil)

## Plattsburgh AFB - Project No. 17257

Page 1 of 13

Revised Report Date: 04/08/97

Original Report Date: 01/15/97

Site: BSAGP

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-01S |   | BS-GP-02S |   | BS-GP-03S |   | BS-GP-04S |   | BS-GP-05S |   | BS-GP-06S |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 09/30/96  |   | 09/30/96  |   | 09/30/96  |   | 10/01/96  |   | 10/01/96  |   | 10/01/96  |   |
|                                        |                     | Date Extracted   |                   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q |
| Naphthalene                            | ng/g                | 200              | 200               | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Acenaphthene                           | ng/g                | 200              | 400               | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Fluorene                               | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Phenanthrene                           | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Anthracene                             | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Fluoranthene                           | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Pyrene                                 | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzo(a)anthracene                     | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Chrysene                               | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzo(b)fluoranthene                   | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzo(k)fluoranthene                   | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzo(a)pyrene                         | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Indeno(1,2,3-cd)pyrene                 | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Dibenz(a,h)anthracene                  | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzo(g,h,i)perylene                   | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Total PAHs                             | ng/g                |                  |                   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-06SDP |   | BS-GP-07S |   | BS-GP-08S |   | BS-GP-09S |   | BS-GP-10S |   | BS-GP-11S |   |
|----------------------------------------|---------------------|------------------|-------------------|-------------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 10/01/96    |   | 10/01/96  |   | 10/01/96  |   | 10/01/96  |   | 10/02/96  |   | 10/02/96  |   |
|                                        |                     | Date Extracted   |                   | 10/07/96    |   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/08/96    |   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result      | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q |
| Naphthalene                            | ng/g                | 200              | 200               | ND          |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Acenaphthene                           | ng/g                | 200              | 400               | ND          |   | ND        |   | 270       |   | ND        |   | ND        |   | ND        |   |
| Fluorene                               | ng/g                | 200              | 1000              | ND          |   | ND        |   | 300       |   | ND        |   | ND        |   | ND        |   |
| Phenanthrene                           | ng/g                | 200              | 1000              | ND          |   | ND        |   | 560       |   | ND        |   | ND        |   | ND        |   |
| Anthracene                             | ng/g                | 200              | 1000              | ND          |   | ND        |   | 250       |   | ND        |   | ND        |   | ND        |   |
| Fluoranthene                           | ng/g                | 200              | 1000              | ND          |   | ND        |   | 600       |   | ND        |   | ND        |   | ND        |   |
| Pyrene                                 | ng/g                | 200              | 1000              | ND          |   | ND        |   | 390       |   | ND        |   | ND        |   | ND        |   |
| Benzo(a)anthracene                     | ng/g                | 200              | 0.04              | ND          |   | ND        |   | 240       | # | ND        |   | ND        |   | ND        |   |
| Chrysene                               | ng/g                | 200              | 0.04              | ND          |   | ND        |   | 190       | # | ND        |   | ND        |   | ND        |   |
| Benzo(b)fluoranthene                   | ng/g                | 200              | 0.04              | ND          |   | ND        |   | 320       | # | ND        |   | ND        |   | ND        |   |
| Benzo(k)fluoranthene                   | ng/g                | 200              | 0.04              | ND          |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzo(a)pyrene                         | ng/g                | 200              | 0.04              | ND          |   | ND        |   | 200       | # | ND        |   | ND        |   | ND        |   |
| Indeno(1,2,3-cd)pyrene                 | ng/g                | 200              | 0.04              | ND          |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Dibenz(a,h)anthracene                  | ng/g                | 200              | 1000              | ND          |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzo(g,h,i)perylene                   | ng/g                | 200              | 0.04              | ND          |   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   |
| Total PAHs                             | ng/g                |                  |                   | ND          |   | ND        |   | 3320      |   | ND        |   | ND        |   | ND        |   |

ND=compound not detected    NA = analysis not applicable for this site    ng/g=ppb  
 J = estimated value is below the practical quantitation limit and above the method detection limit  
 E = estimated concentration is above the calibration range of the instrument

D = sample was diluted, see individual analytical results for corresponding detection limits  
 # Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

Q=Qualifier

B = analyte was detected in an associated blank as well as in the sample

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

\*\* TCLP Alternative Guidance Values obtained from Stars Memo #1

AB (or FB) = ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinsewater sample

LQ = ID suffix for a liquid sample

## Analytical Results (Soil)

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Revised Report Date: 04/08/97

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| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-12S |   | BS-GP-13S |   | BS-GP-14S |   | BS-GP-15S |   | BS-GP-16S |   | BS-GP-16S-5.5 |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|---------------|---|
|                                        |                     | Date Sampled     |                   | 10/02/96  |   | 10/02/96  |   | 10/02/96  |   | 10/02/96  |   | 10/02/96  |   | 12/10/96      |   |
|                                        |                     | Date Extracted   |                   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   | 10/07/96  |   | 10/17/96  |   | 12/11/96      |   |
|                                        |                     | Date Analyzed    |                   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   | 10/08/96  |   | 10/24/96  |   | 12/12/96      |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result        | Q |
| Naphthalene                            | ng/g                | 200              | 200               | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Acenaphthene                           | ng/g                | 200              | 400               | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Fluorene                               | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Phenanthrene                           | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Anthracene                             | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Fluoranthene                           | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Pyrene                                 | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Benzo(a)anthracene                     | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Chrysene                               | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Benzo(b)fluoranthene                   | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Benzo(k)fluoranthene                   | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Benzo(a)pyrene                         | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Indeno(1,2,3-cd)pyrene                 | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Dibenz(a,h)anthracene                  | ng/g                | 200              | 1000              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Benzo(g,h,i)perylene                   | ng/g                | 200              | 0.04              | ND        |   | ND        |   | ND        |   | ND        |   | ND        | R | ND            |   |
| Total PAHs                             | ng/g                |                  |                   | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND            |   |

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-17S |   | BS-GP-17S-A |   | BS-GP-18S |   | BS-GP-18S-A |   | BS-GP-18S-A-D |   | BS-GP-19S |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-------------|---|-----------|---|-------------|---|---------------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 10/02/96  |   | 12/10/96    |   | 10/02/96  |   | 12/10/96    |   | 12/10/96      |   | 10/02/96  |   |
|                                        |                     | Date Extracted   |                   | 10/17/96  |   | 12/11/96    |   | 10/17/96  |   | 12/11/96    |   | 12/11/96      |   | 10/17/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/18/96  |   | 12/12/96    |   | 10/18/96  |   | 12/12/96    |   | 12/12/96      |   | 10/18/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result      | Q | Result    | Q | Result      | Q | Result        | Q | Result    | Q |
| Naphthalene                            | ng/g                | 200              | 200               | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Acenaphthene                           | ng/g                | 200              | 400               | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Fluorene                               | ng/g                | 200              | 1000              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Phenanthrene                           | ng/g                | 200              | 1000              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Anthracene                             | ng/g                | 200              | 1000              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Fluoranthene                           | ng/g                | 200              | 1000              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Pyrene                                 | ng/g                | 200              | 1000              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Benzo(a)anthracene                     | ng/g                | 200              | 0.04              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Chrysene                               | ng/g                | 200              | 0.04              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Benzo(b)fluoranthene                   | ng/g                | 200              | 0.04              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Benzo(k)fluoranthene                   | ng/g                | 200              | 0.04              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Benzo(a)pyrene                         | ng/g                | 200              | 0.04              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Indeno(1,2,3-cd)pyrene                 | ng/g                | 200              | 0.04              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Dibenz(a,h)anthracene                  | ng/g                | 200              | 1000              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Benzo(g,h,i)perylene                   | ng/g                | 200              | 0.04              | ND        | R | ND          |   | ND        | R | ND          |   | ND            |   | ND        | R |
| Total PAHs                             | ng/g                |                  |                   | ND        |   | ND          |   | ND        |   | ND          |   | ND            |   | ND        |   |

ND=compound not detected    NA = analysis not applicable for this site    ng/g=ppb  
 J = estimated value is below the practical quantitation limit and above the method detection limit  
 E = estimated concentration is above the calibration range of the instrument  
 D = sample was diluted, see individual analytical results for corresponding detection limits

# Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

Q=Qualifier

B = analyte was detected in an associated blank as well as in the sample

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

AB (or FB)= ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinsate sample

LQ = ID suffix for a liquid sample

\*\* TCLP Alternative Guidance Values obtained from Stars Memo #1



## Analytical Results (Soil)

## Plattsburgh AFB - Project No. 17257

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Revised Report Date: 04/08/97

Original Report Date: 01/15/97

Site: BSAGP

| PAH Analysis<br>(Modified Method 8270) |                        | Sample Number       |                      | BS-GP-19S-A |   | BS-GP-20S |   | BS-GP-20S-1 |   | BS-GP-21S |   | BS-GP-21S-A |   | BS-GP-22S |   |
|----------------------------------------|------------------------|---------------------|----------------------|-------------|---|-----------|---|-------------|---|-----------|---|-------------|---|-----------|---|
|                                        |                        | Date Sampled        |                      | 12/11/96    |   | 10/02/96  |   | 12/12/96    |   | 10/02/96  |   | 12/12/96    |   | 12/11/96  |   |
|                                        |                        | Date Extracted      |                      | 12/12/96    |   | 10/17/96  |   | 12/12/96    |   | 10/17/96  |   | 12/12/96    |   | 12/12/96  |   |
|                                        |                        | Date Analyzed       |                      | 12/14/96    |   | 10/18/96  |   | 12/14/96    |   | 10/18/96  |   | 12/14/96    |   | 12/14/96  |   |
| Compound                               | Concentration<br>Units | Detection<br>Limit* | Guidance<br>Values** | Result      | Q | Result    | Q | Result      | Q | Result    | Q | Result      | Q | Result    | Q |
| Naphthalene                            | ng/g                   | 200                 | 200                  | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Acenaphthene                           | ng/g                   | 200                 | 400                  | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Fluorene                               | ng/g                   | 200                 | 1000                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Phenanthrene                           | ng/g                   | 200                 | 1000                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Anthracene                             | ng/g                   | 200                 | 1000                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Fluoranthene                           | ng/g                   | 200                 | 1000                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Pyrene                                 | ng/g                   | 200                 | 1000                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Benzo(a)anthracene                     | ng/g                   | 200                 | 0.04                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Chrysene                               | ng/g                   | 200                 | 0.04                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Benzo(b)fluoranthene                   | ng/g                   | 200                 | 0.04                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Benzo(k)fluoranthene                   | ng/g                   | 200                 | 0.04                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Benzo(a)pyrene                         | ng/g                   | 200                 | 0.04                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Indeno(1,2,3-cd)pyrene                 | ng/g                   | 200                 | 0.04                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Dibenz(a,h)anthracene                  | ng/g                   | 200                 | 1000                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Benzo(g,h,i)perylene                   | ng/g                   | 200                 | 0.04                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        |   |
| Total PAHs                             | ng/g                   |                     |                      | ND          |   | ND        |   | ND          |   | ND        |   | ND          |   | ND        |   |

| PAH Analysis<br>(Modified Method 8270) |                        | Sample Number       |                      | BS-GP-23S |   | BS-GP-24S |   |        |   |        |   |        |   |        |   |
|----------------------------------------|------------------------|---------------------|----------------------|-----------|---|-----------|---|--------|---|--------|---|--------|---|--------|---|
|                                        |                        | Date Sampled        |                      | 12/11/96  |   | 12/11/96  |   |        |   |        |   |        |   |        |   |
|                                        |                        | Date Extracted      |                      | 12/12/96  |   | 12/12/96  |   |        |   |        |   |        |   |        |   |
|                                        |                        | Date Analyzed       |                      | 12/14/96  |   | 12/12/96  |   |        |   |        |   |        |   |        |   |
| Compound                               | Concentration<br>Units | Detection<br>Limit* | Guidance<br>Values** | Result    | Q | Result    | Q | Result | Q | Result | Q | Result | Q | Result | Q |
| Naphthalene                            | ng/g                   | 200                 | 200                  | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Acenaphthene                           | ng/g                   | 200                 | 400                  | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Fluorene                               | ng/g                   | 200                 | 1000                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Phenanthrene                           | ng/g                   | 200                 | 1000                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Anthracene                             | ng/g                   | 200                 | 1000                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Fluoranthene                           | ng/g                   | 200                 | 1000                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Pyrene                                 | ng/g                   | 200                 | 1000                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Benzo(a)anthracene                     | ng/g                   | 200                 | 0.04                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Chrysene                               | ng/g                   | 200                 | 0.04                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Benzo(b)fluoranthene                   | ng/g                   | 200                 | 0.04                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Benzo(k)fluoranthene                   | ng/g                   | 200                 | 0.04                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Benzo(a)pyrene                         | ng/g                   | 200                 | 0.04                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Indeno(1,2,3-cd)pyrene                 | ng/g                   | 200                 | 0.04                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Dibenz(a,h)anthracene                  | ng/g                   | 200                 | 1000                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Benzo(g,h,i)perylene                   | ng/g                   | 200                 | 0.04                 | ND        |   | ND        |   |        |   |        |   |        |   |        |   |
| Total PAHs                             | ng/g                   |                     |                      | ND        |   | ND        |   |        |   |        |   |        |   |        |   |

ND=compound not detected    NA = analysis not applicable for this site    ng/g=ppb  
 J = estimated value is below the practical quantitation limit and above the method detection limit  
 E = estimated concentration is above the calibration range of the instrument  
 D = sample was diluted, see individual analytical results for corresponding detection limits  
 # Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

Q=Qualifier    EX = ID prefix for an excavation sample    AB (or FB)= ID prefix for an ambient blank sample  
 SP = ID prefix for a stockpile sample    ER = ID prefix for an equipment rinsate sample  
 B = analyte was detected in an associated blank as well as in the sample    LQ = ID suffix for a liquid sample  
 R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

\*\* TCLP Alternative Guidance Values obtained from Stars Memo #1

## Analytical Results (Water)

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Site: BSAGP

Revised Report Date: 04/08/97

Original Report Date: 01/15/97

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-01W |  | BS-GP-01W-A |   | BS-GP-02W |  | BS-GP-03W |  | BS-GP-04W |  | BS-GP-04WDP |  |
|----------------------------------------|---------------------|------------------|-------------------|-----------|--|-------------|---|-----------|--|-----------|--|-----------|--|-------------|--|
|                                        |                     | Date Sampled     |                   | 09/30/96  |  | 12/11/96    |   | 09/30/96  |  | 09/30/96  |  | 10/01/96  |  | 10/01/96    |  |
|                                        |                     | Date Extracted   |                   | 10/04/96  |  | 12/12/96    |   | 10/04/96  |  | 10/04/96  |  | 10/04/96  |  | 10/05/96    |  |
|                                        |                     | Date Analyzed    |                   | 10/07/96  |  | 12/17/96    |   | 10/07/96  |  | 10/07/96  |  | 10/09/96  |  | 10/07/96    |  |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result Q  |  | Result Q    |   | Result Q  |  | Result Q  |  | Result Q  |  | Result Q    |  |
| Naphthalene                            | ug/L                | 5                | 10                | ND        |  | 34          | # | ND        |  | ND        |  | ND        |  | ND          |  |
| Acenaphthene                           | ug/L                | 5                | 20                | ND        |  | 25          | # | ND        |  | ND        |  | ND        |  | ND          |  |
| Fluorene                               | ug/L                | 5                | 50                | ND        |  | 19          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Phenanthrene                           | ug/L                | 5                | 50                | ND        |  | 22          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Anthracene                             | ug/L                | 5                | 50                | ND        |  | 9           |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Fluoranthene                           | ug/L                | 5                | 50                | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Pyrene                                 | ug/L                | 5                | 50                | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Benzo(a)anthracene                     | ug/L                | 5                | 0.002             | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Chrysene                               | ug/L                | 5                | 0.002             | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Benzo(b)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Benzo(k)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Benzo(a)pyrene                         | ug/L                | 5                | 0.002             | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Indeno(1,2,3-cd)pyrene                 | ug/L                | 5                | 0.002             | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Dibenz(a,h)anthracene                  | ug/L                | 5                | 50                | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Benzo(g,h,i)perylene                   | ug/L                | 5                | 0.002             | ND        |  | ND          |   | ND        |  | ND        |  | ND        |  | ND          |  |
| Total PAHs                             | ug/L                |                  |                   | ND        |  | 109         |   | ND        |  | ND        |  | ND        |  | ND          |  |

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-05W |  | BS-GP-06W |  | BS-GP-07W |  | BS-GP-08W |   | BS-GP-09W |  | BS-GP-10W |  |
|----------------------------------------|---------------------|------------------|-------------------|-----------|--|-----------|--|-----------|--|-----------|---|-----------|--|-----------|--|
|                                        |                     | Date Sampled     |                   | 10/01/96  |  | 10/01/96  |  | 10/01/96  |  | 10/02/96  |   | 10/02/96  |  | 10/02/96  |  |
|                                        |                     | Date Extracted   |                   | 10/04/96  |  | 10/04/96  |  | 10/04/96  |  | 10/05/96  |   | 10/05/96  |  | 10/08/96  |  |
|                                        |                     | Date Analyzed    |                   | 10/07/96  |  | 10/04/96  |  | 10/08/96  |  | 10/08/96  |   | 10/08/96  |  | 10/17/96  |  |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result Q  |  | Result Q  |  | Result Q  |  | Result Q  |   | Result Q  |  | Result Q  |  |
| Naphthalene                            | ug/L                | 5                | 10                | ND        |  | ND        |  | ND        |  | 10        | # | 7         |  | ND        |  |
| Acenaphthene                           | ug/L                | 5                | 20                | ND        |  | ND        |  | ND        |  | 9         |   | ND        |  | ND        |  |
| Fluorene                               | ug/L                | 5                | 50                | ND        |  | ND        |  | ND        |  | 7         |   | ND        |  | ND        |  |
| Phenanthrene                           | ug/L                | 5                | 50                | ND        |  | ND        |  | ND        |  | 12        |   | ND        |  | ND        |  |
| Anthracene                             | ug/L                | 5                | 50                | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Fluoranthene                           | ug/L                | 5                | 50                | ND        |  | ND        |  | ND        |  | 8         |   | ND        |  | ND        |  |
| Pyrene                                 | ug/L                | 5                | 50                | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Benzo(a)anthracene                     | ug/L                | 5                | 0.002             | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Chrysene                               | ug/L                | 5                | 0.002             | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Benzo(b)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Benzo(k)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Benzo(a)pyrene                         | ug/L                | 5                | 0.002             | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Indeno(1,2,3-cd)pyrene                 | ug/L                | 5                | 0.002             | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Dibenz(a,h)anthracene                  | ug/L                | 5                | 50                | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Benzo(g,h,i)perylene                   | ug/L                | 5                | 0.002             | ND        |  | ND        |  | ND        |  | ND        |   | ND        |  | ND        |  |
| Total PAHs                             | ug/L                |                  |                   | ND        |  | ND        |  | ND        |  | 46        |   | 7         |  | ND        |  |

ND=compound not detected    NA = analysis not applicable for this site    ug/L = ppb  
 J = estimated value is below the practical quantitation limit and above the method detection limit

E = estimated concentration is above the calibration range of the instrument  
 D = sample was diluted, see individual analytical results for corresponding detection limits  
 RE = ID suffix for re-extraction/re-analysis

Q=Qualifier

B = analyte was detected in an associated blank as well as in the sample  
 S = surrogate recovery is outside control limits  
 R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

AB (or FB) = ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinse sample

LQ = ID suffix for a liquid sample

N = ELCD was not functioning during analysis

# Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water, Technical &amp; Operational Guidance Series (TOGS)

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

\*\* Class GA Guidance Values obtained from NYSDEC TOGS

## Analytical Results (Water)

## Plattsburgh AFB - Project No. 17257

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Site: BSAGP

Revised Report Date: 04/08/97

Original Report Date: 01/15/97

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-11W |   | BS-GP-12W |   | BS-GP-12W-A |   | BS-GP-13W |   | BS-GP-14W-A |   | BS-GP-15W |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-----------|---|-------------|---|-----------|---|-------------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 10/02/96  |   | 10/02/96  |   | 12/12/96    |   | 10/02/96  |   | 12/11/96    |   | 10/02/96  |   |
|                                        |                     | Date Extracted   |                   | 10/08/96  |   | 10/05/96  |   | 12/12/96    |   | 10/08/96  |   | 12/12/96    |   | 10/08/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/17/96  |   | 10/08/96  |   | 12/17/96    |   | 10/17/96  |   | 12/14/96    |   | 10/17/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result    | Q | Result      | Q | Result    | Q | Result      | Q | Result    | Q |
| Naphthalene                            | ug/L                | 5                | 10                | ND        |   | 13        | # | ND          |   | ND        |   | ND          |   | ND        |   |
| Acenaphthene                           | ug/L                | 5                | 20                | ND        |   | ND        |   | ND          |   | 39        | # | ND          |   | ND        |   |
| Fluorene                               | ug/L                | 5                | 50                | ND        |   | ND        |   | ND          |   | 100       | # | ND          |   | ND        |   |
| Phenanthrene                           | ug/L                | 5                | 50                | ND        |   | ND        |   | ND          |   | 100       | # | ND          |   | ND        |   |
| Anthracene                             | ug/L                | 5                | 50                | ND        |   | ND        |   | ND          |   | 56        | # | ND          |   | ND        |   |
| Fluoranthene                           | ug/L                | 5                | 50                | ND        |   | ND        |   | ND          |   | 100       | # | ND          |   | ND        |   |
| Pyrene                                 | ug/L                | 5                | 50                | ND        |   | ND        |   | ND          |   | 78        | # | ND          |   | ND        |   |
| Benzo(a)anthracene                     | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND          |   | 63        | # | ND          |   | ND        |   |
| Chrysene                               | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND          |   | 35        | # | ND          |   | ND        |   |
| Benzo(b)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND          |   | 26        | # | ND          |   | ND        |   |
| Benzo(k)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND          |   | 11        | # | ND          |   | ND        |   |
| Benzo(a)pyrene                         | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND          |   | 21        | # | ND          |   | ND        |   |
| Indeno(1,2,3-cd)pyrene                 | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND          |   | 8         | # | ND          |   | ND        |   |
| Dibenz(a,h)anthracene                  | ug/L                | 5                | 50                | ND        |   | ND        |   | ND          |   | ND        |   | ND          |   | ND        |   |
| Benzo(g,h,i)perylene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND          |   | 8         | # | ND          |   | ND        |   |
| Total PAHs                             | ug/L                |                  |                   | ND        |   | 13        |   | ND          |   | 645       |   | ND          |   | ND        |   |

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-16W |   | BS-GP-17W |   | BS-GP-18W |   | BS-GP-19W |   | BS-GP-20W |   | BS-GP-20W-1 |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-------------|---|
|                                        |                     | Date Sampled     |                   | 10/03/96  |   | 10/03/96  |   | 10/03/96  |   | 10/03/96  |   | 10/03/96  |   | 12/12/96    |   |
|                                        |                     | Date Extracted   |                   | 10/05/96  |   | 10/05/96  |   | 10/05/96  |   | 10/05/96  |   | 10/05/96  |   | 12/12/96    |   |
|                                        |                     | Date Analyzed    |                   | 10/09/96  |   | 10/17/96  |   | 10/17/96  |   | 10/09/96  |   | 10/08/96  |   | 12/14/96    |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result      | Q |
| Naphthalene                            | ug/L                | 5                | 10                | ND        |   | ND        |   | ND        |   | ND        |   | 40        | # | ND          |   |
| Acenaphthene                           | ug/L                | 5                | 20                | ND        |   | ND        |   | ND        |   | ND        |   | 6         |   | ND          |   |
| Fluorene                               | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND        |   | 8         |   | ND          |   |
| Phenanthrene                           | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND        |   | 22        |   | ND          |   |
| Anthracene                             | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND        |   | 8         |   | ND          |   |
| Fluoranthene                           | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND        |   | 23        |   | ND          |   |
| Pyrene                                 | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND        |   | 18        |   | ND          |   |
| Benzo(a)anthracene                     | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND        |   | 8         | # | ND          |   |
| Chrysene                               | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   |
| Benzo(b)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   |
| Benzo(k)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   |
| Benzo(a)pyrene                         | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   |
| Indeno(1,2,3-cd)pyrene                 | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   |
| Dibenz(a,h)anthracene                  | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   |
| Benzo(g,h,i)perylene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   |
| Total PAHs                             | ug/L                |                  |                   | ND        |   | ND        |   | ND        |   | ND        |   | 133       |   | ND          |   |

ND=compound not detected    NA = analysis not applicable for this site    ug/L = ppb  
 J = estimated value is below the practical quantitation limit and above the method detection limit  
 E = estimated concentration is above the calibration range of the instrument  
 D = sample was diluted, see individual analytical results for corresponding detection limits  
 RE = ID suffix for re-extraction/re-analysis

Q=Qualifier

EX = ID prefix for an excavation sample

SP = ID prefix for a stockpile sample

B = analyte was detected in an associated blank as well as in the sample LQ = ID suffix for a liquid sample

S = surrogate recovery is outside control limits

R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

AB (or FB) = ID prefix for an ambient blank sample

ER = ID prefix for an equipment rinse sample

LQ = ID suffix for a liquid sample

N = ELCD was not functioning during analysis

# Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water, Technical &amp; Operational Guidance Series (TOGS)

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

\*\* Class GA Guidance Values obtained from NYSDEC TOGS

# Analytical Results (Water)

# Plattsburgh AFB - Project No. 17257

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Revised Report Date: 04/08/97

Original Report Date: 01/15/97

Site: BSAGP

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | BS-GP-21W |   | BS-GP-22W |   | BS-GP-23W |   | BS-GP-24W-A |   | EQ BLANK1 |   | EQ BLANK2 |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-----------|---|-----------|---|-------------|---|-----------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 10/03/96  |   | 12/11/96  |   | 12/12/96  |   | 12/12/96    |   | 09/30/96  |   | 10/01/96  |   |
|                                        |                     | Date Extracted   |                   | 10/05/96  |   | 12/12/96  |   | 12/12/96  |   | 12/12/96    |   | 10/05/96  |   | 10/04/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/08/96  |   | 12/14/96  |   | 12/17/96  |   | 12/17/96    |   | 10/07/96  |   | 10/07/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result    | Q | Result    | Q | Result      | Q | Result    | Q | Result    | Q |
| Naphthalene                            | ug/L                | 5                | 10                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Acenaphthene                           | ug/L                | 5                | 20                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Fluorene                               | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Phenanthrene                           | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Anthracene                             | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Fluoranthene                           | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Pyrene                                 | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Benzo(a)anthracene                     | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Chrysene                               | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Benzo(b)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Benzo(k)fluoranthene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Benzo(a)pyrene                         | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Indeno(1,2,3-cd)pyrene                 | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Dibenz(a,h)anthracene                  | ug/L                | 5                | 50                | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Benzo(g,h,i)perylene                   | ug/L                | 5                | 0.002             | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Total PAHs                             | ug/L                |                  |                   | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   | ND        |   |

| PAH Analysis<br>(Modified Method 8270) |                     | Sample Number    |                   | ER100296 |   | ER100396 |   | ER121096 |   | ER121196 |   | ER121296 |   |        |   |
|----------------------------------------|---------------------|------------------|-------------------|----------|---|----------|---|----------|---|----------|---|----------|---|--------|---|
|                                        |                     | Date Sampled     |                   | 10/02/96 |   | 10/03/96 |   | 12/10/96 |   | 12/11/96 |   | 12/12/96 |   |        |   |
|                                        |                     | Date Extracted   |                   | 10/08/96 |   | 10/08/96 |   | 12/11/96 |   | 12/12/96 |   | 12/12/96 |   |        |   |
|                                        |                     | Date Analyzed    |                   | 10/09/96 |   | 10/17/96 |   | 12/14/96 |   | 12/14/96 |   | 12/14/96 |   |        |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result   | Q | Result | Q |
| Naphthalene                            | ug/L                | 5                | 10                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Acenaphthene                           | ug/L                | 5                | 20                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Fluorene                               | ug/L                | 5                | 50                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Phenanthrene                           | ug/L                | 5                | 50                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Anthracene                             | ug/L                | 5                | 50                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Fluoranthene                           | ug/L                | 5                | 50                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Pyrene                                 | ug/L                | 5                | 50                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Benzo(a)anthracene                     | ug/L                | 5                | 0.002             | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Chrysene                               | ug/L                | 5                | 0.002             | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Benzo(b)fluoranthene                   | ug/L                | 5                | 0.002             | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Benzo(k)fluoranthene                   | ug/L                | 5                | 0.002             | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Benzo(a)pyrene                         | ug/L                | 5                | 0.002             | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Indeno(1,2,3-cd)pyrene                 | ug/L                | 5                | 0.002             | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Dibenz(a,h)anthracene                  | ug/L                | 5                | 50                | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Benzo(g,h,i)perylene                   | ug/L                | 5                | 0.002             | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |
| Total PAHs                             | ug/L                |                  |                   | ND       |   | ND       |   | ND       |   | ND       |   | ND       |   |        |   |

ND=compound not detected NA = analysis not applicable for this site ug/L=ppb  
 J = estimated value is below the practical quantitation limit and above the method detection limit  
 E = estimated concentration is above the calibration range of the instrument  
 D = sample was diluted, see individual analytical results for corresponding detection limits  
 # Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water, Technical & Operational Guidance Series (TOGS)

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

Q=Qualifier EX = ID prefix for an excavation sample AB (or FB)= ID prefix for an ambient blank sample  
 SP = ID prefix for a stockpile sample ER = ID prefix for an equipment rinsate sample  
 B = analyte was detected in an associated blank as well as in the sample LQ = ID suffix for a liquid sample  
 R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

\*\* Class GA Guidance Values obtained from NYSDEC TOGS

# Analytical Results (Soil)

# Plattsburgh AFB - Project No. 17257

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Revised Report Date: 01/15/97

Original Report Date: 07/31/96

Site: BSAGP

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-01S |   | BS-GP-01S-A |     | BS-GP-02S |   | BS-GP-03S |   | BS-GP-04S |   | BS-GP-05S |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-------------|-----|-----------|---|-----------|---|-----------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 09/30/96  |   | 12/10/96    |     | 09/30/96  |   | 09/30/96  |   | 10/01/96  |   | 10/01/96  |   |
|                                        |                     | Date Extracted   |                   | 10/11/96  |   | 12/14/96    |     | 10/11/96  |   | 10/11/96  |   | 10/11/96  |   | 10/10/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/11/96  |   | 12/14/96    |     | 10/11/96  |   | 10/11/96  |   | 10/11/96  |   | 10/10/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result      | Q   | Result    | Q | Result    | Q | Result    | Q | Result    | Q |
| MTBE                                   | ng/g                | 1                | 1000              | ND        |   | ND          | D   | ND        |   | ND        |   | ND        |   | ND        |   |
| Benzene                                | ng/g                | 0.5              | 14                | ND        |   | ND          | D   | ND        |   | ND        |   | ND        |   | ND        |   |
| Trichloroethylene                      | ng/g                | 1                | 700               | ND        |   | ND          | D   | ND        |   | ND        |   | ND        |   | ND        |   |
| Toluene                                | ng/g                | 1                | 100               | ND        |   | ND          | D   | ND        |   | ND        |   | ND        |   | ND        |   |
| Ethylbenzene                           | ng/g                | 1                | 100               | 2.0       |   | 1200.0      | # D | ND        |   | ND        |   | ND        |   | ND        |   |
| Xylenes, total                         | ng/g                | 1                | 100               | ND        |   | 1300.0      | # D | ND        |   | ND        |   | ND        |   | ND        |   |

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-06S |   | BS-GP-06SDP |   | BS-GP-07S |   | BS-GP-08S |   | BS-GP-08S-A |     | BS-GP-09S |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-------------|---|-----------|---|-----------|---|-------------|-----|-----------|---|
|                                        |                     | Date Sampled     |                   | 10/01/96  |   | 10/01/96    |   | 10/01/96  |   | 10/01/96  |   | 12/10/96    |     | 10/01/96  |   |
|                                        |                     | Date Extracted   |                   | 10/10/96  |   | 10/11/96    |   | 10/11/96  |   | 10/12/96  |   | 12/13/96    |     | 10/12/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/10/96  |   | 10/11/96    |   | 10/11/96  |   | 10/12/96  |   | 12/13/96    |     | 10/12/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result      | Q | Result    | Q | Result    | Q | Result      | Q   | Result    | Q |
| MTBE                                   | ng/g                | 1                | 1000              | ND        |   | ND          |   | ND        |   | ND        |   | ND          | D   | ND        |   |
| Benzene                                | ng/g                | 0.5              | 14                | ND        |   | ND          |   | ND        |   | 7.0       |   | ND          | D   | ND        |   |
| Trichloroethylene                      | ng/g                | 1                | 700               | ND        |   | ND          |   | ND        |   | ND        |   | ND          | D   | ND        |   |
| Toluene                                | ng/g                | 1                | 100               | ND        |   | ND          |   | ND        |   | 3.0       |   | ND          | D   | 3.0       |   |
| Ethylbenzene                           | ng/g                | 1                | 100               | ND        |   | ND          |   | ND        |   | 40.0      |   | 2400.0      | # D | 11.0      |   |
| Xylenes, total                         | ng/g                | 1                | 100               | ND        |   | ND          |   | ND        |   | 150.0     | # | ND          | D   | 6.0       |   |

ND=compound not detected    NA = analysis not applicable for this site    ng/g=ppb  
 J = estimated value is the below practical quantitation limit and above the method detection limit  
 E = estimated concentration is above the calibration range of the instrument  
 D = sample was diluted, see individual analytical results for corresponding detection limits  
 # Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

Q=Qualifier    EX = ID prefix for an excavation sample    AB (or FB)= ID prefix for an ambient blank sample  
 SP = ID prefix for a stockpile sample    ER = ID prefix for an equipment rinseate sample  
 B = analyte was detected in an associated blank as well as in the sample    LQ = ID suffix for a liquid sample  
 R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

\*\* TCLP Alternative Guidance Values obtained from Stars Memo #1



# Analytical Results (Soil)

# Plattsburgh AFB - Project No. 17257

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Revised Report Date: 01/15/97

Original Report Date: 07/31/96

Site: BSAGP

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-09S-A |     | BS-GP-09S-A-D |     | BS-GP-10S |   | BS-GP-11S |     | BS-GP-12S |   | BS-GP-13S |   |
|----------------------------------------|---------------------|------------------|-------------------|-------------|-----|---------------|-----|-----------|---|-----------|-----|-----------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 12/10/96    |     | 12/10/96      |     | 10/02/96  |   | 10/02/96  |     | 10/02/96  |   | 10/02/96  |   |
|                                        |                     | Date Extracted   |                   | 12/15/96    |     | 12/14/96      |     | 10/16/96  |   | 10/16/96  |     | 10/15/96  |   | 10/12/96  |   |
|                                        |                     | Date Analyzed    |                   | 12/15/96    |     | 12/14/96      |     | 10/16/96  |   | 10/16/96  |     | 10/15/96  |   | 10/12/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result      | Q   | Result        | Q   | Result    | Q | Result    | Q   | Result    | Q | Result    | Q |
| MTBE                                   | ng/g                | 1                | 1000              | ND          | D   | ND            | D   | ND        | D | ND        | D   | ND        | D | ND        | D |
| Benzene                                | ng/g                | 0.5              | 14                | ND          | D   | ND            | D   | ND        | D | ND        | D   | ND        | D | ND        | D |
| Trichloroethylene                      | ng/g                | 1                | 700               | ND          | D   | ND            | D   | ND        | D | ND        | D   | ND        | D | ND        | D |
| Toluene                                | ng/g                | 1                | 100               | ND          | D   | ND            | D   | ND        | D | ND        | D   | ND        | D | ND        | D |
| Ethylbenzene                           | ng/g                | 1                | 100               | ND          | D   | 1000.0        | # D | ND        | D | 4100.0    | # D | ND        | D | ND        | D |
| Xylenes, total                         | ng/g                | 1                | 100               | 461.0       | # D | ND            | D   | 55.0      | D | 2400.0    | # D | ND        | D | ND        | D |

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-14S |   | BS-GP-14S-A |   | BS-GP-15S |   | BS-GP-16S |   | BS-GP-16S-5.5 |   | BS-GP-17S |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-------------|---|-----------|---|-----------|---|---------------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 10/02/96  |   | 12/10/96    |   | 10/02/96  |   | 10/02/96  |   | 12/10/96      |   | 10/02/96  |   |
|                                        |                     | Date Extracted   |                   | 10/16/96  |   | 12/13/96    |   | 10/12/96  |   | 10/17/96  |   | 12/12/96      |   | 10/17/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/16/96  |   | 12/13/96    |   | 10/12/96  |   | 10/17/96  |   | 12/12/96      |   | 10/17/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result      | Q | Result    | Q | Result    | Q | Result        | Q | Result    | Q |
| MTBE                                   | ng/g                | 1                | 1000              | ND        |   | ND          |   | ND        |   | ND        | R | ND            |   | ND        | R |
| Benzene                                | ng/g                | 0.5              | 14                | ND        |   | 0.8         |   | ND        |   | ND        | R | ND            |   | ND        | R |
| Trichloroethylene                      | ng/g                | 1                | 700               | ND        |   | ND          |   | ND        |   | ND        | R | ND            |   | ND        | R |
| Toluene                                | ng/g                | 1                | 100               | ND        |   | ND          |   | ND        |   | 6.0       | R | ND            |   | ND        | R |
| Ethylbenzene                           | ng/g                | 1                | 100               | 2.0       |   | 8.0         |   | ND        |   | ND        | R | ND            |   | ND        | R |
| Xylenes, total                         | ng/g                | 1                | 100               | 1.0       |   | 17.0        |   | ND        |   | ND        | R | ND            |   | ND        | R |

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 D = sample was diluted, see individual analytical results for corresponding detection limits  
 # Results indicate concentrations above the TCLP Alternative Guidance Values obtained from the Stars Memo #1

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\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

\*\* TCLP Alternative Guidance Values obtained from Stars Memo #1

# Analytical Results (Soil)

# Plattsburgh AFB - Project No. 17257

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Site: BSAGP

Revised Report Date: 04/08/97

Original Report Date: 01/15/97

| VOC Analysis<br>(Modified Method 8021) |                        | Sample Number       |                      | BS-GP-17S-A |   | BS-GP-18S |   | BS-GP-18S-A |   | BS-GP-19S |   | BS-GP-19S-A |   | BS-GP-20S |     |
|----------------------------------------|------------------------|---------------------|----------------------|-------------|---|-----------|---|-------------|---|-----------|---|-------------|---|-----------|-----|
|                                        |                        | Date Sampled        |                      | 12/10/96    |   | 10/02/96  |   | 12/10/96    |   | 10/02/96  |   | 12/11/96    |   | 10/02/96  |     |
|                                        |                        | Date Extracted      |                      | 12/13/96    |   | 10/17/96  |   | 12/13/96    |   | 10/17/96  |   | 12/14/96    |   | 10/17/96  |     |
|                                        |                        | Date Analyzed       |                      | 12/13/96    |   | 10/17/96  |   | 12/13/96    |   | 10/17/96  |   | 12/14/96    |   | 10/17/96  |     |
| Compound                               | Concentration<br>Units | Detection<br>Limit* | Guidance<br>Values** | Result      | Q | Result    | Q | Result      | Q | Result    | Q | Result      | Q | Result    | Q   |
| MTBE                                   | ng/g                   | 1                   | 1000                 | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        | R   |
| Benzene                                | ng/g                   | 0.5                 | 14                   | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        | R   |
| Trichloroethylene                      | ng/g                   | 1                   | 700                  | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | ND        | R   |
| Toluene                                | ng/g                   | 1                   | 100                  | ND          |   | ND        | R | ND          |   | ND        | R | ND          |   | 10.0      | R   |
| Ethylbenzene                           | ng/g                   | 1                   | 100                  | ND          |   | ND        | R | ND          |   | ND        | R | 100.0       | # | 150.0     | # R |
| Xylenes, total                         | ng/g                   | 1                   | 100                  | ND          |   | ND        | R | ND          |   | ND        | R | 470.0       | # | 190.0     | # R |

| VOC Analysis<br>(Modified Method 8021) |                        | Sample Number       |                      | BS-GP-20S-1 |   | BS-GP-21S |   | BS-GP-21S-A |   | BS-GP-22S |   | BS-GP-23S |   | BS-GP-24S |   |
|----------------------------------------|------------------------|---------------------|----------------------|-------------|---|-----------|---|-------------|---|-----------|---|-----------|---|-----------|---|
|                                        |                        | Date Sampled        |                      | 12/12/96    |   | 10/02/96  |   | 12/12/96    |   | 12/11/96  |   | 12/11/96  |   | 12/11/96  |   |
|                                        |                        | Date Extracted      |                      | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   | 12/14/96  |   | 12/14/96  |   | 12/14/96  |   |
|                                        |                        | Date Analyzed       |                      | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   | 12/14/96  |   | 12/14/96  |   | 12/14/96  |   |
| Compound                               | Concentration<br>Units | Detection<br>Limit* | Guidance<br>Values** | Result      | Q | Result    | Q | Result      | Q | Result    | Q | Result    | Q | Result    | Q |
| MTBE                                   | ng/g                   | 1                   | 1000                 | ND          |   | ND        | R | ND          |   | ND        |   | ND        |   | ND        |   |
| Benzene                                | ng/g                   | 0.5                 | 14                   | ND          |   | ND        | R | ND          |   | ND        |   | ND        |   | ND        |   |
| Trichloroethylene                      | ng/g                   | 1                   | 700                  | ND          |   | ND        | R | ND          |   | ND        |   | ND        |   | ND        |   |
| Toluene                                | ng/g                   | 1                   | 100                  | ND          |   | ND        | R | ND          |   | ND        |   | ND        |   | ND        |   |
| Ethylbenzene                           | ng/g                   | 1                   | 100                  | 17.0        |   | 15.0      | R | ND          |   | ND        |   | ND        |   | ND        |   |
| Xylenes, total                         | ng/g                   | 1                   | 100                  | 38.0        |   | 32.0      | R | ND          |   | ND        |   | ND        |   | ND        |   |

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\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

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\*\* TCLP Alternative Guidance Values obtained from Stars Memo #1

# Analytical Results (Water)

# Plattsburgh AFB - Project No. 17257

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Revised Report Date: 01/15/97

Original Report Date: 07/31/96

Site: BSAGP

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-01W |   | BS-GP-02W |   | BS-GP-03W |   | BS-GP-04W |   | BS-GP-04WDP |   | BS-GP-05W |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-----------|---|-----------|---|-----------|---|-------------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 09/30/96  |   | 09/30/96  |   | 09/30/96  |   | 10/01/96  |   | 10/01/96    |   | 10/01/96  |   |
|                                        |                     | Date Extracted   |                   | 10/10/96  |   | 10/11/96  |   | 10/11/96  |   | 10/11/96  |   | 10/11/96    |   | 10/10/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/10/96  |   | 10/11/96  |   | 10/11/96  |   | 10/11/96  |   | 10/11/96    |   | 10/10/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result    | Q | Result    | Q | Result    | Q | Result      | Q | Result    | Q |
| MTBE                                   | ug/L                | 1                | 50                | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   |
| Benzene                                | ug/L                | 0.5              | 0.7               | 2.0       | # | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   |
| Trichloroethylene                      | ug/L                | 1                | 5                 | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   |
| Toluene                                | ug/L                | 1                | 5                 | ND        |   | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   |
| Ethylbenzene                           | ug/L                | 1                | 5                 | 5.0       | # | ND        |   | ND        |   | ND        |   | ND          |   | ND        |   |
| Xylenes, total                         | ug/L                | 1                | 5                 | 4.0       |   | ND        |   | ND        |   | ND        |   | ND          |   | 2.0       |   |

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-06W |   | BS-GP-07W |   | BS-GP-08W |   | BS-GP-08W-A |     | BS-GP-09W |   | BS-GP-09W-A |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-----------|---|-----------|---|-------------|-----|-----------|---|-------------|---|
|                                        |                     | Date Sampled     |                   | 10/01/96  |   | 10/01/96  |   | 10/02/96  |   | 12/11/96    |     | 10/02/96  |   | 12/11/96    |   |
|                                        |                     | Date Extracted   |                   | 10/11/96  |   | 10/10/96  |   | 10/11/96  |   | 12/15/96    |     | 10/12/96  |   | 12/16/96    |   |
|                                        |                     | Date Analyzed    |                   | 10/11/96  |   | 10/10/96  |   | 10/11/96  |   | 12/15/96    |     | 10/12/96  |   | 12/16/96    |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result    | Q | Result    | Q | Result      | Q   | Result    | Q | Result      | Q |
| MTBE                                   | ug/L                | 1                | 50                | ND        |   | 3.0       |   | 2.0       |   | ND          | D   | 1.0       |   | 3.0         |   |
| Benzene                                | ug/L                | 0.5              | 0.7               | ND        |   | ND        |   | 88.0      | # | 98.0        | # D | 3.0       | # | 29.0        | # |
| Trichloroethylene                      | ug/L                | 1                | 5                 | ND        |   | ND        |   | ND        |   | ND          | D   | ND        |   | ND          |   |
| Toluene                                | ug/L                | 1                | 5                 | ND        |   | ND        |   | 2.0       |   | ND          | D   | 1.0       |   | 13.0        | # |
| Ethylbenzene                           | ug/L                | 1                | 5                 | ND        |   | ND        |   | 17.0      | # | 280.0       | # D | 17.0      | # | 80.0        | # |
| Xylenes, total                         | ug/L                | 1                | 5                 | ND        |   | ND        |   | 140.0     | # | 804.0       | # D | 14.0      | # | 20.0        | # |

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\*\* Class GA Guidance Values obtained from NYSDEC TOGS

# Analytical Results (Water)

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Revised Report Date: 01/15/97

Original Report Date: 07/31/96

Site: BSAGP

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-10W |      | BS-GP-10W-A |     | BS-GP-11W |     | BS-GP-11W-A |   | BS-GP-12W |     | BS-GP-13W |      |
|----------------------------------------|---------------------|------------------|-------------------|-----------|------|-------------|-----|-----------|-----|-------------|---|-----------|-----|-----------|------|
|                                        |                     | Date Sampled     |                   | 10/02/96  |      | 12/11/96    |     | 10/02/96  |     | 12/11/96    |   | 10/02/96  |     | 10/02/96  |      |
|                                        |                     | Date Extracted   |                   | 10/18/96  |      | 12/15/96    |     | 10/16/96  |     | 12/16/96    |   | 10/16/96  |     | 10/18/96  |      |
|                                        |                     | Date Analyzed    |                   | 10/18/96  |      | 12/15/96    |     | 10/16/96  |     | 12/16/96    |   | 10/16/96  |     | 10/18/96  |      |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q    | Result      | Q   | Result    | Q   | Result      | Q | Result    | Q   | Result    | Q    |
| MTBE                                   | ug/L                | 1                | 50                | ND        | DR   | ND          | D   | ND        | D   | ND          |   | ND        | D   | 38.0      | DR   |
| Benzene                                | ug/L                | 0.5              | 0.7               | 16.0      | # DR | 87.0        | # D | 130.0     | # D | 70.0        | # | 29.0      | # D | 50.0      | # DR |
| Trichloroethylene                      | ug/L                | 1                | 5                 | ND        | DR   | ND          | D   | ND        | D   | ND          |   | ND        | D   | ND        | DR   |
| Toluene                                | ug/L                | 1                | 5                 | ND        | DR   | ND          | D   | ND        | D   | 2.0         |   | 71.0      | # D | 26.0      | # DR |
| Ethylbenzene                           | ug/L                | 1                | 5                 | 15.0      | # DR | 120.0       | # D | ND        | D   | 6.0         | # | 160.0     | # D | 220.0     | # DR |
| Xylenes, total                         | ug/L                | 1                | 5                 | 150.0     | # DR | 580.0       | # D | 1400.0    | # D | 332.0       | # | 2700.0    | # D | 220.0     | # DR |

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-13W-A |   | BS-GP-14W-A |     | BS-GP-15W |     | BS-GP-15W-A |   | BS-GP-16W |   | BS-GP-16W-A |   |
|----------------------------------------|---------------------|------------------|-------------------|-------------|---|-------------|-----|-----------|-----|-------------|---|-----------|---|-------------|---|
|                                        |                     | Date Sampled     |                   | 12/11/96    |   | 12/11/96    |     | 10/02/96  |     | 12/11/96    |   | 10/03/96  |   | 12/11/96    |   |
|                                        |                     | Date Extracted   |                   | 12/15/96    |   | 12/15/96    |     | 10/17/96  |     | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   |
|                                        |                     | Date Analyzed    |                   | 12/15/96    |   | 12/15/96    |     | 10/17/96  |     | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result      | Q | Result      | Q   | Result    | Q   | Result      | Q | Result    | Q | Result      | Q |
| MTBE                                   | ug/L                | 1                | 50                | ND          |   | ND          | D   | ND        | R   | ND          |   | ND        |   | ND          |   |
| Benzene                                | ug/L                | 0.5              | 0.7               | 42.0        | # | 2600.0      | # D | 0.6       | R   | ND          |   | ND        |   | ND          |   |
| Trichloroethylene                      | ug/L                | 1                | 5                 | ND          |   | ND          | D   | ND        | R   | ND          |   | ND        |   | ND          |   |
| Toluene                                | ug/L                | 1                | 5                 | ND          |   | ND          | D   | ND        | R   | ND          |   | ND        |   | ND          |   |
| Ethylbenzene                           | ug/L                | 1                | 5                 | 37.0        | # | 2600.0      | # D | 2.0       | R   | ND          |   | ND        |   | ND          |   |
| Xylenes, total                         | ug/L                | 1                | 5                 | 15.0        | # | 9500.0      | # D | 6.0       | # R | ND          |   | 2.0       |   | 2.0         |   |

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# Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water, Technical & Operational Guidance Series (TOGS)

\* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits

\*\* Class GA Guidance Values obtained from NYSDEC TOGS

# Analytical Results (Water)

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Revised Report Date: 04/08/97

Original Report Date: 01/15/97

Site: BSAGP

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-17W |   | BS-GP-17W-A |   | BS-GP-18W |   | BS-GP-18W-A |   | BS-GP-19W |   | BS-GP-19W-A |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|---|-------------|---|-----------|---|-------------|---|-----------|---|-------------|---|
|                                        |                     | Date Sampled     |                   | 10/03/96  |   | 12/11/96    |   | 10/03/96  |   | 12/11/96    |   | 10/03/96  |   | 12/11/96    |   |
|                                        |                     | Date Extracted   |                   | 10/17/96  |   | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   | 10/17/96  |   | 12/19/96    |   |
|                                        |                     | Date Analyzed    |                   | 10/17/96  |   | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   | 10/17/96  |   | 12/19/96    |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q | Result      | Q | Result    | Q | Result      | Q | Result    | Q | Result      | Q |
| MTBE                                   | ug/L                | 1                | 50                | ND        |   | ND          |   | ND        |   | ND          |   | ND        |   | ND          |   |
| Benzene                                | ug/L                | 0.5              | 0.7               | ND        |   | ND          |   | ND        |   | ND          |   | 2.0       | # | ND          |   |
| Trichloroethylene                      | ug/L                | 1                | 5                 | ND        |   | ND          |   | ND        |   | ND          |   | ND        |   | ND          |   |
| Toluene                                | ug/L                | 1                | 5                 | ND        |   | ND          |   | ND        |   | ND          |   | 3.0       |   | 2.0         |   |
| Ethylbenzene                           | ug/L                | 1                | 5                 | ND        |   | ND          |   | ND        |   | ND          |   | 340.0     | # | 39.0        | # |
| Xylenes, total                         | ug/L                | 1                | 5                 | 2.0       |   | ND          |   | ND        |   | 4.0         |   | 1500.0    | # | 172.0       | # |

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number    |                   | BS-GP-20W |      | BS-GP-20W-1 |   | BS-GP-21W |   | BS-GP-21W-A |   | BS-GP-22W |   | BS-GP-23W |   |
|----------------------------------------|---------------------|------------------|-------------------|-----------|------|-------------|---|-----------|---|-------------|---|-----------|---|-----------|---|
|                                        |                     | Date Sampled     |                   | 10/03/96  |      | 12/12/96    |   | 10/03/96  |   | 12/12/96    |   | 12/11/96  |   | 12/12/96  |   |
|                                        |                     | Date Extracted   |                   | 10/18/96  |      | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   | 12/14/96  |   | 12/14/96  |   |
|                                        |                     | Date Analyzed    |                   | 10/18/96  |      | 12/14/96    |   | 10/17/96  |   | 12/14/96    |   | 12/14/96  |   | 12/14/96  |   |
| Compound                               | Concentration Units | Detection Limit* | Guidance Values** | Result    | Q    | Result      | Q | Result    | Q | Result      | Q | Result    | Q | Result    | Q |
| MTBE                                   | ug/L                | 1                | 50                | ND        | DR   | ND          |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Benzene                                | ug/L                | 0.5              | 0.7               | ND        | DR   | ND          |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Trichloroethylene                      | ug/L                | 1                | 5                 | ND        | DR   | ND          |   | ND        |   | ND          |   | ND        |   | ND        |   |
| Toluene                                | ug/L                | 1                | 5                 | 170.0     | # DR | ND          |   | 2.0       |   | ND          |   | ND        |   | 2.0       |   |
| Ethylbenzene                           | ug/L                | 1                | 5                 | 220.0     | # DR | 4.0         |   | 3.0       |   | ND          |   | ND        |   | ND        |   |
| Xylenes, total                         | ug/L                | 1                | 5                 | 2000.0    | # DR | 21.0        | # | 17.0      | # | ND          |   | 3.0       |   | ND        |   |

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\*\* Class GA Guidance Values obtained from NYSDEC TOGS



# Analytical Results (Water)

# Plattsburgh AFB - Project No. 17257

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Revised Report Date: 04/08/97

Original Report Date: 01/15/97

Site: BSAGP

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number   |                  | BS-GP-24W |   | EQ BLANK1 |   | EQ BLANK2 |   | ER100296 |   | ER100396 |   | ER121096 |   |
|----------------------------------------|---------------------|-----------------|------------------|-----------|---|-----------|---|-----------|---|----------|---|----------|---|----------|---|
|                                        |                     | Date Sampled    |                  | 12/11/96  |   | 09/30/96  |   | 10/01/96  |   | 10/02/96 |   | 10/03/96 |   | 12/10/96 |   |
|                                        |                     | Date Extracted  |                  | 12/14/96  |   | 10/11/96  |   | 10/11/96  |   | 10/16/96 |   | 10/17/96 |   | 12/13/96 |   |
|                                        |                     | Date Analyzed   |                  | 12/14/96  |   | 10/11/96  |   | 10/11/96  |   | 10/16/96 |   | 10/17/96 |   | 12/13/96 |   |
| Compound                               | Concentration Units | Detection Limit | Guidance Values* | Result    | Q | Result    | Q | Result    | Q | Result   | Q | Result   | Q | Result   | Q |
| MTBE                                   | ug/L                | 1               | 50               | ND        |   | ND        |   | ND        |   | ND       |   | ND       |   | ND       |   |
| Benzene                                | ug/L                | 0.5             | 0.7              | ND        |   | ND        |   | ND        |   | ND       |   | ND       |   | ND       |   |
| Trichloroethylene                      | ug/L                | 1               | 5                | ND        |   | ND        |   | ND        |   | ND       |   | ND       |   | ND       |   |
| Toluene                                | ug/L                | 1               | 5                | ND        |   | ND        |   | ND        |   | ND       |   | ND       |   | ND       |   |
| Ethylbenzene                           | ug/L                | 1               | 5                | ND        |   | ND        |   | ND        |   | ND       |   | ND       |   | ND       |   |
| Xylenes, total                         | ug/L                | 1               | 5                | ND        |   | ND        |   | ND        |   | ND       |   | ND       |   | ND       |   |

| VOC Analysis<br>(Modified Method 8021) |                     | Sample Number   |                  | AFB121096 |   | AFB121196 |   | ER121196 |   | ER121296 |   |        |   |        |   |
|----------------------------------------|---------------------|-----------------|------------------|-----------|---|-----------|---|----------|---|----------|---|--------|---|--------|---|
|                                        |                     | Date Sampled    |                  | 12/10/96  |   | 12/11/96  |   | 12/11/96 |   | 12/12/96 |   |        |   |        |   |
|                                        |                     | Date Extracted  |                  | 12/13/96  |   | 12/13/96  |   | 12/13/96 |   | 12/13/96 |   |        |   |        |   |
|                                        |                     | Date Analyzed   |                  | 12/13/96  |   | 12/13/96  |   | 12/13/96 |   | 12/13/96 |   |        |   |        |   |
| Compound                               | Concentration Units | Detection Limit | Guidance Values* | Result    | Q | Result    | Q | Result   | Q | Result   | Q | Result | Q | Result | Q |
| MTBE                                   | ug/L                | 1               | 50               | ND        |   | ND        |   | ND       |   | ND       |   |        |   |        |   |
| Benzene                                | ug/L                | 0.5             | 0.7              | ND        |   | ND        |   | ND       |   | ND       |   |        |   |        |   |
| Trichloroethylene                      | ug/L                | 1               | 5                | ND        |   | ND        |   | ND       |   | ND       |   |        |   |        |   |
| Toluene                                | ug/L                | 1               | 5                | ND        |   | ND        |   | ND       |   | ND       |   |        |   |        |   |
| Ethylbenzene                           | ug/L                | 1               | 5                | ND        |   | ND        |   | ND       |   | ND       |   |        |   |        |   |
| Xylenes, total                         | ug/L                | 1               | 5                | ND        |   | ND        |   | ND       |   | ND       |   |        |   |        |   |

ND=compound not detected    NA = analysis not applicable for this site    ug/L=ppb    Q=Qualifier    EX = ID prefix for an excavation sample    AB (or FB)= ID prefix for an ambient blank sample  
 J = estimated value is below the practical quantitation limit and above the method detection limit    SP = ID prefix for a stockpile sample    ER = ID prefix for an equipment rinsate sample  
 E = estimated concentration is above the calibration range of the instrument    B = analyte was detected in an associated blank as well as in the sample    LQ = ID suffix for a liquid sample  
 D = sample was diluted, see individual analytical results for corresponding detection limits    R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria  
 # Results indicate concentrations above the Guidance Values obtained from the NYSDEC Division of Water, Technical & Operational Guidance Series (TOGS)  
 \* Detection Limit may vary for some samples, see individual analytical results for the corresponding detection limits    \*\* Class GA Guidance Values obtained from NYSDEC TOGS

## **C.2 ANALYTICAL DATA SHEETS**

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-01S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 9/30/96

Time : 1100

Test Code: 8021 Lab: CTM

Description : Volatiles

Date Extracted : 10/11/96 Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | 2.0    |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270 Lab: CTM

Description : Semivolatiles

Date Extracted : 10/7/96 Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-01S-A

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 0845

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 230             | 1000               | ND     | D        |
| Benzene           | ng/g  | 120             | 14                 | ND     | D        |
| Trichloroethylene | ng/g  | 230             | 700                | ND     | D        |
| Toluene           | ng/g  | 230             | 100                | ND     | D        |
| Ethylbenzene      | ng/g  | 230             | 100                | 1200.0 | #D       |
| m,p-Xylene        | ng/g  | 230             | 100                | 1300.0 | #D       |
| o-Xylene          | ng/g  | 230             | 100                | ND     | D        |
| Xylenes, total    | ng/g  | 230             | 100                | 1300.0 | #D       |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-01W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 9/30/96

Time : 1320

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/10/96

Date Analyzed : 10/10/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     | #        |
| Benzene           | ug/l  | 0.5             | 0.70               | 2.0    |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | 5.0    |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 4.0    |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/4/96

Date Analyzed : 10/7/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     | S        |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     | S        |
| Fluorene               | ug/l  | 5               | 50                 | ND     | S        |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     | S        |
| Anthracene             | ug/l  | 5               | 50                 | ND     | S        |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     | S        |
| Pyrene                 | ug/l  | 5               | 50                 | ND     | S        |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     | S        |
| Chrysene               | ug/l  | 5               | 0.002              | ND     | S        |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     | S        |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     | S        |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     | S        |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     | S        |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     | S        |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     | S        |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

RE = ID suffix for re-extraction/re-analysis

\* NYSDEC Groundwater Quality Standards or Guidance Values

# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-01W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1246

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | 34     | #        |
| Acenaphthene           | ug/l  | 5               | 20                 | 25     | #        |
| Fluorene               | ug/l  | 5               | 50                 | 19     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | 22     |          |
| Anthracene             | ug/l  | 5               | 50                 | 9      |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | 109    |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-02S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 9/30/96

Time : 1415

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/11/96

Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-02W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 9/30/96

Time : 1445

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/11/96

Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/4/96

Date Analyzed : 10/7/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-03S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 9/30/96

Time : 1501

Test Code: 8021 Lab : CTM

Description : Volatiles

Date Extracted : 10/11/96 Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270 Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96 Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 200             | 400                | ND     |          |
| Fluorene               | ng/g  | 200             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     |          |
| Anthracene             | ng/g  | 200             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 200             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-03W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 9/30/96

Time : 1530

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/11/96

Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/4/96

Date Analyzed : 10/7/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinse sample LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-04S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 0925

| <b>Test Code: 8021      Lab : CTM</b><br><b>Description : Volatiles</b><br><b>Date Extracted : 10/11/96      Date Analyzed : 10/11/96</b> |       |                 |                    |        |          | <b>Test Code: 8270      Lab : CTM</b><br><b>Description : Semivolatiles</b><br><b>Date Extracted : 10/7/96      Date Analyzed : 10/8/96</b> |       |                 |                    |        |          |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|--------------------|--------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|--------------------|--------|----------|
| Parameter                                                                                                                                 | Units | Detection Limit | Regulatory Limit * | Result | DataFlag | Parameter                                                                                                                                   | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                                                                                                                                      | ng/g  | 1               | 1000               | ND     |          | Naphthalene                                                                                                                                 | ng/g  | 190             | 200                | ND     |          |
| Benzene                                                                                                                                   | ng/g  | 0.6             | 14                 | ND     |          | Acenaphthene                                                                                                                                | ng/g  | 190             | 400                | ND     |          |
| Trichloroethylene                                                                                                                         | ng/g  | 1               | 700                | ND     |          | Fluorene                                                                                                                                    | ng/g  | 190             | 1000               | ND     |          |
| Toluene                                                                                                                                   | ng/g  | 1               | 100                | ND     |          | Phenanthrene                                                                                                                                | ng/g  | 190             | 1000               | ND     |          |
| Ethylbenzene                                                                                                                              | ng/g  | 1               | 100                | ND     |          | Anthracene                                                                                                                                  | ng/g  | 190             | 1000               | ND     |          |
| Xylenes, total                                                                                                                            | ng/g  | 1               | 100                | ND     |          | Fluoranthene                                                                                                                                | ng/g  | 190             | 1000               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Pyrene                                                                                                                                      | ng/g  | 190             | 1000               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Benzo(a)anthracene                                                                                                                          | ng/g  | 190             | 0.04               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Chrysene                                                                                                                                    | ng/g  | 190             | 0.04               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Benzo(b)fluoranthene                                                                                                                        | ng/g  | 190             | 0.04               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Benzo(k)fluoranthene                                                                                                                        | ng/g  | 190             | 0.04               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Benzo(a)pyrene                                                                                                                              | ng/g  | 190             | 0.04               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Indeno(1,2,3-cd)pyrene                                                                                                                      | ng/g  | 190             | 0.04               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Dibenz(a,h)anthracene                                                                                                                       | ng/g  | 190             | 1000               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Benzo(g,h,i)perylene                                                                                                                        | ng/g  | 190             | 0.04               | ND     |          |
|                                                                                                                                           |       |                 |                    |        |          | Total PAHs                                                                                                                                  | ng/g  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
 B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
 R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
 AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
 \* NYSDEC Groundwater Quality Standards or Guidance Values  
 # indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-04W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1000

| Test Code: 8021 Lab: CTM                           |       |                 |                    |        |          | Test Code: 8270 Lab: CTM                         |       |                 |                    |        |          |
|----------------------------------------------------|-------|-----------------|--------------------|--------|----------|--------------------------------------------------|-------|-----------------|--------------------|--------|----------|
| Description : Volatiles                            |       |                 |                    |        |          | Description : Semivolatiles                      |       |                 |                    |        |          |
| Date Extracted : 10/11/96 Date Analyzed : 10/11/96 |       |                 |                    |        |          | Date Extracted : 10/4/96 Date Analyzed : 10/9/96 |       |                 |                    |        |          |
| Parameter                                          | Units | Detection Limit | Regulatory Limit * | Result | DataFlag | Parameter                                        | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                                               | ug/l  | 1               | 50                 | ND     |          | Naphthalene                                      | ug/l  | 5               | 10                 | ND     |          |
| Benzene                                            | ug/l  | 0.5             | 0.70               | ND     |          | Acenaphthene                                     | ug/l  | 5               | 20                 | ND     |          |
| Trichloroethylene                                  | ug/l  | 1               | 5                  | ND     |          | Fluorene                                         | ug/l  | 5               | 50                 | ND     |          |
| Toluene                                            | ug/l  | 1               | 5                  | ND     |          | Phenanthrene                                     | ug/l  | 5               | 50                 | ND     |          |
| Ethylbenzene                                       | ug/l  | 1               | 5                  | ND     |          | Anthracene                                       | ug/l  | 5               | 50                 | ND     |          |
| Xylenes, total                                     | ug/l  | 1               | 5                  | ND     |          | Fluoranthene                                     | ug/l  | 5               | 50                 | ND     |          |
|                                                    |       |                 |                    |        |          | Pyrene                                           | ug/l  | 5               | 50                 | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(a)anthracene                               | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Chrysene                                         | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(b)fluoranthene                             | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(k)fluoranthene                             | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(a)pyrene                                   | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Indeno(1,2,3-cd)pyrene                           | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Dibenz(a,h)anthracene                            | ug/l  | 5               | 50                 | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(g,h,i)perylene                             | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Total PAHs                                       | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-04WDP  
Site ID : BSAGP  
Project No. : 17257

Matrix : Aqueous

Date : 10/1/96 Time : 1010

Test Code: 8021 Lab : CTM  
Description : Volatiles  
Date Extracted : 10/11/96 Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270 Lab : CTM  
Description : Semivolatiles  
Date Extracted : 10/5/96 Date Analyzed : 10/7/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-05S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1020

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/10/96

Date Analyzed : 10/10/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-05S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1020

Test Code: 8021 Lab: CTM  
Description : Volatiles  
Date Extracted : 10/10/96 Date Analyzed : 10/10/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270 Lab: CTM  
Description : Semivolatiles  
Date Extracted : 10/7/96 Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
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AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-05W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1115

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/10/96

Date Analyzed : 10/10/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 2.0    |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/4/96

Date Analyzed : 10/7/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-06S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1240

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/10/96

Date Analyzed : 10/10/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 200             | 400                | ND     |          |
| Fluorene               | ng/g  | 200             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     |          |
| Anthracene             | ng/g  | 200             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 200             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-06SDP

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1245

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/11/96

Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 200             | 400                | ND     |          |
| Fluorene               | ng/g  | 200             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     |          |
| Anthracene             | ng/g  | 200             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 200             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-06W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1300

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/11/96

Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/4/96

Date Analyzed : 10/4/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-07S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1330

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/11/96

Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-07W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1345

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/10/96

Date Analyzed : 10/10/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | 3.0    |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/4/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-08S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1445

| Test Code: 8021 Lab: CTM                           |       |                 |                    |        |          | Test Code: 8270 Lab: CTM                         |       |                 |                    |        |          |
|----------------------------------------------------|-------|-----------------|--------------------|--------|----------|--------------------------------------------------|-------|-----------------|--------------------|--------|----------|
| Description : Volatiles                            |       |                 |                    |        |          | Description : Semivolatiles                      |       |                 |                    |        |          |
| Date Extracted : 10/12/96 Date Analyzed : 10/12/96 |       |                 |                    |        |          | Date Extracted : 10/7/96 Date Analyzed : 10/8/96 |       |                 |                    |        |          |
| Parameter                                          | Units | Detection Limit | Regulatory Limit * | Result | DataFlag | Parameter                                        | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                                               | ng/g  | 1               | 1000               | ND     |          | Naphthalene                                      | ng/g  | 190             | 200                | ND     |          |
| Benzene                                            | ng/g  | 0.6             | 14                 | 7.0    |          | Acenaphthene                                     | ng/g  | 190             | 400                | 270    |          |
| Trichloroethylene                                  | ng/g  | 1               | 700                | ND     |          | Fluorene                                         | ng/g  | 190             | 1000               | 300    |          |
| Toluene                                            | ng/g  | 1               | 100                | 3.0    |          | Phenanthrene                                     | ng/g  | 190             | 1000               | 560    |          |
| Ethylbenzene                                       | ng/g  | 1               | 100                | 40.0   |          | Anthracene                                       | ng/g  | 190             | 1000               | 250    |          |
| Xylenes, total                                     | ng/g  | 1               | 100                | 150.0  | #        | Fluoranthene                                     | ng/g  | 190             | 1000               | 600    |          |
|                                                    |       |                 |                    |        |          | Pyrene                                           | ng/g  | 190             | 1000               | 390    |          |
|                                                    |       |                 |                    |        |          | Benzo(a)anthracene                               | ng/g  | 190             | 0.04               | 240    | #        |
|                                                    |       |                 |                    |        |          | Chrysene                                         | ng/g  | 190             | 0.04               | 190    | #        |
|                                                    |       |                 |                    |        |          | Benzo(b)fluoranthene                             | ng/g  | 190             | 0.04               | 320    | #        |
|                                                    |       |                 |                    |        |          | Benzo(k)fluoranthene                             | ng/g  | 190             | 0.04               | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(a)pyrene                                   | ng/g  | 190             | 0.04               | 200    | #        |
|                                                    |       |                 |                    |        |          | Indeno(1,2,3-cd)pyrene                           | ng/g  | 190             | 0.04               | ND     |          |
|                                                    |       |                 |                    |        |          | Dibenz(a,h)anthracene                            | ng/g  | 190             | 1000               | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(g,h,i)perylene                             | ng/g  | 190             | 0.04               | ND     |          |
|                                                    |       |                 |                    |        |          | Total PAHs                                       | ng/g  |                 |                    | 3320   |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-08S-A

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 0910

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/13/96

Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 115             | 1000               | ND     | D        |
| Benzene           | ng/g  | 57              | 14                 | ND     | D        |
| Trichloroethylene | ng/g  | 57              | 700                | ND     | D        |
| Toluene           | ng/g  | 115             | 100                | ND     | D        |
| Ethylbenzene      | ng/g  | 115             | 100                | 2400.0 | #D       |
| m,p-Xylene        | ng/g  | 115             | 100                | ND     | D        |
| o-Xylene          | ng/g  | 115             | 100                | ND     | D        |
| Xylenes, total    | ng/g  | 115             | 100                | ND     | D        |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample

\* NYSDEC Groundwater Quality Standards or Guidance Values

# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-08W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 0730

Test Code: 8021      Lab : CTM  
Description : Volatiles  
Date Extracted : 10/11/96      Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | 2.0    | #        |
| Benzene           | ug/l  | 0.5             | 0.70               | 88.0   |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | 2.0    | #        |
| Ethylbenzene      | ug/l  | 1               | 5                  | 17.0   |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 140.0  |          |

Test Code: 8270      Lab : CTM  
Description : Semivolatiles  
Date Extracted : 10/5/96      Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | 10     | #        |
| Acenaphthene           | ug/l  | 5               | 20                 | 9      |          |
| Fluorene               | ug/l  | 5               | 50                 | 7      |          |
| Phenanthrene           | ug/l  | 5               | 50                 | 12     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | 8      |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | 46     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-08W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1151

| Test Code: 8021           | Lab : CTM                |                 |                    |        |          |
|---------------------------|--------------------------|-----------------|--------------------|--------|----------|
| Description : Volatiles   |                          |                 |                    |        |          |
| Date Extracted : 12/15/96 | Date Analyzed : 12/15/96 |                 |                    |        |          |
| Parameter                 | Units                    | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ug/l                     | 10              | 50                 | ND     | D        |
| Benzene                   | ug/l                     | 5               | 0.70               | 98.0   | #D       |
| Trichloroethylene         | ug/l                     | 10              | 5                  | ND     | D        |
| Toluene                   | ug/l                     | 10              | 5                  | ND     | D        |
| Ethylbenzene              | ug/l                     | 10              | 5                  | 280.0  | #D       |
| m,p-Xylene                | ug/l                     | 10              | 5                  | 760.0  | #D       |
| o-Xylene                  | ug/l                     | 10              | 5                  | 44.0   | #D       |
| Xylenes, total            | ug/l                     | 10              | 5                  | 804.0  | #D       |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-09S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1645

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/12/96

Date Analyzed : 10/12/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | 3.0    |          |
| Ethylbenzene      | ng/g  | 1               | 100                | 11.0   |          |
| Xylenes, total    | ng/g  | 1               | 100                | 6.0    |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 180             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 180             | 400                | ND     |          |
| Fluorene               | ng/g  | 180             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 180             | 1000               | ND     |          |
| Anthracene             | ng/g  | 180             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 180             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 180             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 180             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 180             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 180             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 180             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 180             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 180             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 180             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 180             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-09S-A

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 0925

| Test Code: 8021           | Lab : CTM                |                 |                    |        |          |
|---------------------------|--------------------------|-----------------|--------------------|--------|----------|
| Description : Volatiles   |                          |                 |                    |        |          |
| Date Extracted : 12/15/96 | Date Analyzed : 12/15/96 |                 |                    |        |          |
| Parameter                 | Units                    | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ng/g                     | 120             | 1000               | ND     | D        |
| Benzene                   | ng/g                     | 58              | 14                 | ND     | D        |
| Trichloroethylene         | ng/g                     | 120             | 700                | ND     | D        |
| Toluene                   | ng/g                     | 120             | 100                | ND     | D        |
| Ethylbenzene              | ng/g                     | 120             | 100                | ND     | D        |
| m,p-Xylene                | ng/g                     | 120             | 100                | 400.0  | #D       |
| o-Xylene                  | ng/g                     | 120             | 100                | 61.0   | D        |
| Xylenes, total            | ng/g                     | 120             | 100                | 461.0  | #D       |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-09S-A-D

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 0925

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 120             | 1000               | ND     | D        |
| Benzene           | ng/g  | 58              | 14                 | ND     | D        |
| Trichloroethylene | ng/g  | 120             | 700                | ND     | D        |
| Toluene           | ng/g  | 120             | 100                | ND     | D        |
| Ethylbenzene      | ng/g  | 120             | 100                | 1000.0 | #D       |
| m,p-Xylene        | ng/g  | 120             | 100                | ND     | D        |
| o-Xylene          | ng/g  | 120             | 100                | ND     | D        |
| Xylenes, total    | ng/g  | 120             | 100                | ND     | D        |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-09W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 0745

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/12/96

Date Analyzed : 10/12/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | 1.0    |          |
| Benzene           | ug/l  | 0.5             | 0.70               | 3.0    | #        |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | 1.0    |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | 17.0   | #        |
| Xylenes, total    | ug/l  | 1               | 5                  | 14.0   | #        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/5/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | 7      |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | 7      |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-09W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1015

| Test Code: 8021           | Lab : CTM                |                 |                    |        |          |
|---------------------------|--------------------------|-----------------|--------------------|--------|----------|
| Description : Volatiles   |                          |                 |                    |        |          |
| Date Extracted : 12/16/96 | Date Analyzed : 12/16/96 |                 |                    |        |          |
| Parameter                 | Units                    | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ug/l                     | 1               | 50                 | 3.0    |          |
| Benzene                   | ug/l                     | 0.5             | 0.70               | 29.0   | #        |
| Trichloroethylene         | ug/l                     | 1               | 5                  | ND     |          |
| Toluene                   | ug/l                     | 1               | 5                  | 13.0   | #        |
| Ethylbenzene              | ug/l                     | 1               | 5                  | 80.0   | #        |
| m,p-Xylene                | ug/l                     | 1               | 5                  | 15.0   | #        |
| o-Xylene                  | ug/l                     | 1               | 5                  | 5.0    | #        |
| Xylenes, total            | ug/l                     | 1               | 5                  | 20.0   | #        |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-10S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 0940

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/16/96

Date Analyzed : 10/16/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 23              | 1000               | ND     | D        |
| Benzene           | ng/g  | 12              | 14                 | ND     | D        |
| Trichloroethylene | ng/g  | 23              | 700                | ND     | D        |
| Toluene           | ng/g  | 23              | 100                | ND     | D        |
| Ethylbenzene      | ng/g  | 23              | 100                | ND     | D        |
| Xylenes, total    | ng/g  | 23              | 100                | 55.0   | D        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-10W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1455

Test Code: 8021 Lab : CTM  
Description : Volatiles  
Date Extracted : 10/18/96 Date Analyzed : 10/18/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 10              | 50                 | ND     | DR       |
| Benzene           | ug/l  | 5               | 0.70               | 16.0   | #DR      |
| Trichloroethylene | ug/l  | 10              | 5                  | ND     | DR       |
| Toluene           | ug/l  | 10              | 5                  | ND     | DR       |
| Ethylbenzene      | ug/l  | 10              | 5                  | 15.0   | #DR      |
| Xylenes, total    | ug/l  | 10              | 5                  | 150.0  | #DR      |

Test Code: 8270 Lab : CTM  
Description : Semivolatiles  
Date Extracted : 10/8/96 Date Analyzed : 10/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-10W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 0905

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/15/96

Date Analyzed : 12/15/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 10              | 50                 | ND     | D        |
| Benzene           | ug/l  | 5               | 0.70               | 87.0   | #D       |
| Trichloroethylene | ug/l  | 10              | 5                  | ND     | D        |
| Toluene           | ug/l  | 10              | 5                  | ND     | D        |
| Ethylbenzene      | ug/l  | 10              | 5                  | 120.0  | #D       |
| m,p-Xylene        | ug/l  | 10              | 5                  | 580.0  | #D       |
| o-Xylene          | ug/l  | 10              | 5                  | ND     | D        |
| Xylenes, total    | ug/l  | 10              | 5                  | 580.0  | #D       |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits

EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis

\* NYSDEC Groundwater Quality Standards or Guidance Values

# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-11S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1000

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/16/96

Date Analyzed : 10/16/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1100            | 1000               | ND     | D        |
| Benzene           | ng/g  | 570             | 14                 | ND     | D        |
| Trichloroethylene | ng/g  | 1100            | 700                | ND     | D        |
| Toluene           | ng/g  | 1100            | 100                | ND     | D        |
| Ethylbenzene      | ng/g  | 1100            | 100                | 4100.0 | #D       |
| Xylenes, total    | ng/g  | 1100            | 100                | 2400.0 | #D       |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-11W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1610

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/16/96

Date Analyzed : 10/16/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 10              | 50                 | ND     | D        |
| Benzene           | ug/l  | 5               | 0.70               | 130.0  | #D       |
| Trichloroethylene | ug/l  | 10              | 5                  | ND     | D        |
| Toluene           | ug/l  | 10              | 5                  | ND     | D        |
| Ethylbenzene      | ug/l  | 10              | 5                  | ND     | D        |
| Xylenes, total    | ug/l  | 10              | 5                  | 1400.0 | #D       |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/8/96

Date Analyzed : 10/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-11W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1110

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/16/96

Date Analyzed : 12/16/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | 70.0   | #        |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | 2.0    |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | 6.0    | #        |
| m,p-Xylene        | ug/l  | 1               | 5                  | 330.0  | #        |
| o-Xylene          | ug/l  | 1               | 5                  | 2.0    |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 332.0  | #        |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-12S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1120

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/15/96

Date Analyzed : 10/15/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* NYSDEC Groundwater Quality Standards or Guidance Values

# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-12W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1535

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/16/96

Date Analyzed : 10/16/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 50              | 50                 | ND     | D        |
| Benzene           | ug/l  | 25              | 0.70               | 29.0   | #D       |
| Trichloroethylene | ug/l  | 50              | 5                  | ND     | D        |
| Toluene           | ug/l  | 50              | 5                  | 71.0   | #D       |
| Ethylbenzene      | ug/l  | 50              | 5                  | 160.0  | #D       |
| Xylenes, total    | ug/l  | 50              | 5                  | 2700.0 | #D       |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/5/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | 13     | #S       |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     | S        |
| Fluorene               | ug/l  | 5               | 50                 | ND     | S        |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     | S        |
| Anthracene             | ug/l  | 5               | 50                 | ND     | S        |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     | S        |
| Pyrene                 | ug/l  | 5               | 50                 | ND     | S        |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     | S        |
| Chrysene               | ug/l  | 5               | 0.002              | ND     | S        |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     | S        |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     | S        |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     | S        |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     | S        |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     | S        |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     | S        |
| Total PAHs             | ug/l  |                 |                    | 13     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis

\* NYSDEC Groundwater Quality Standards or Guidance Values

# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-12W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/12/96

Time : 1030

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-13S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1140

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/12/96

Date Analyzed : 10/12/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* NYSDEC Groundwater Quality Standards or Guidance Values

# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-13W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1640

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/18/96

Date Analyzed : 10/18/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 10              | 50                 | 38.0   | DR       |
| Benzene           | ug/l  | 5               | 0.70               | 50.0   | #DR      |
| Trichloroethylene | ug/l  | 10              | 5                  | ND     | DR       |
| Toluene           | ug/l  | 10              | 5                  | 26.0   | #DR      |
| Ethylbenzene      | ug/l  | 10              | 5                  | 220.0  | #DR      |
| Xylenes, total    | ug/l  | 10              | 5                  | 220.0  | #DR      |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/8/96

Date Analyzed : 10/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | 39     | #        |
| Fluorene               | ug/l  | 5               | 50                 | 100    | #        |
| Phenanthrene           | ug/l  | 5               | 50                 | 100    | #        |
| Anthracene             | ug/l  | 5               | 50                 | 56     | #        |
| Fluoranthene           | ug/l  | 5               | 50                 | 100    | #        |
| Pyrene                 | ug/l  | 5               | 50                 | 78     | #        |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | 63     | #        |
| Chrysene               | ug/l  | 5               | 0.002              | 35     | #        |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | 26     | #        |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | 11     | #        |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | 21     | #        |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | 8      | #        |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | 8      | #        |
| Total PAHs             | ug/l  |                 |                    | 645    |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* NYSDEC Groundwater Quality Standards or Guidance Values

# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-13W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1200

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/15/96

Date Analyzed : 12/15/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | 42.0   | #        |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | 37.0   | #        |
| m,p-Xylene        | ug/l  | 1               | 5                  | 15.0   | #        |
| o-Xylene          | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 15.0   | #        |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-14S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1215

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/16/96

Date Analyzed : 10/16/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | 2.0    |          |
| Xylenes, total    | ng/g  | 1               | 100                | 1.0    |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 190             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 190             | 400                | ND     |          |
| Fluorene               | ng/g  | 190             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 190             | 1000               | ND     |          |
| Anthracene             | ng/g  | 190             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 190             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 190             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 190             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 190             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 190             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 190             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 190             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 190             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-14S-A

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 1020

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/13/96

Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | 0.8    |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | 8.0    |          |
| m,p-Xylene        | ng/g  | 1               | 100                | 17.0   |          |
| o-Xylene          | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | 17.0   |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-14W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1205

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/15/96

Date Analyzed : 12/15/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 200             | 50                 | ND     | D        |
| Benzene           | ug/l  | 100             | 0.70               | 2600.0 | #D       |
| Trichloroethylene | ug/l  | 200             | 5                  | ND     | D        |
| Toluene           | ug/l  | 200             | 5                  | ND     | D        |
| Ethylbenzene      | ug/l  | 200             | 5                  | 2600.0 | #D       |
| m,p-Xylene        | ug/l  | 200             | 5                  | 7800.0 | #D       |
| o-Xylene          | ug/l  | 200             | 5                  | 1700.0 | #D       |
| Xylenes, total    | ug/l  | 200             | 5                  | 9500.0 | #D       |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-15S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1200

Test Code: 8021 Lab : CTM

Description : Volatiles

Date Extracted : 10/12/96 Date Analyzed : 10/12/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270 Lab : CTM

Description : Semivolatiles

Date Extracted : 10/7/96 Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 200             | 400                | ND     |          |
| Fluorene               | ng/g  | 200             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     |          |
| Anthracene             | ng/g  | 200             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 200             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-15W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1720

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     | R        |
| Benzene           | ug/l  | 0.5             | 0.70               | 0.6    | R        |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     | R        |
| Toluene           | ug/l  | 1               | 5                  | ND     | R        |
| Ethylbenzene      | ug/l  | 1               | 5                  | 2.0    | R        |
| Xylenes, total    | ug/l  | 1               | 5                  | 6.0    | #R       |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/8/96

Date Analyzed : 10/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-15W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1215

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection<br>Limit | Regulatory<br>Limit * | Result | DataFlag |
|-------------------|-------|--------------------|-----------------------|--------|----------|
| MTBE              | ug/l  | 1                  | 50                    | ND     |          |
| Benzene           | ug/l  | 0.5                | 0.70                  | ND     |          |
| Trichloroethylene | ug/l  | 1                  | 5                     | ND     |          |
| Toluene           | ug/l  | 1                  | 5                     | ND     |          |
| Ethylbenzene      | ug/l  | 1                  | 5                     | ND     |          |
| m,p-Xylene        | ug/l  | 1                  | 5                     | ND     |          |
| o-Xylene          | ug/l  | 1                  | 5                     | ND     |          |
| Xylenes, total    | ug/l  | 1                  | 5                     | ND     |          |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-16W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/3/96

Time : 0725

Test Code: 8021 Lab : CTM  
Description : Volatiles  
Date Extracted : 10/17/96 Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 2.0    |          |

Test Code: 8270 Lab : CTM  
Description : Semivolatiles  
Date Extracted : 10/5/96 Date Analyzed : 10/9/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-16W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1355

| Test Code: 8021           | Lab : CTM                |                 |                    |        |          |
|---------------------------|--------------------------|-----------------|--------------------|--------|----------|
| Description : Volatiles   |                          |                 |                    |        |          |
| Date Extracted : 12/14/96 | Date Analyzed : 12/14/96 |                 |                    |        |          |
| Parameter                 | Units                    | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ug/l                     | 1               | 50                 | ND     |          |
| Benzene                   | ug/l                     | 0.5             | 0.70               | ND     |          |
| Trichloroethylene         | ug/l                     | 1               | 5                  | ND     |          |
| Toluene                   | ug/l                     | 1               | 5                  | ND     |          |
| Ethylbenzene              | ug/l                     | 1               | 5                  | ND     |          |
| m,p-Xylene                | ug/l                     | 1               | 5                  | 2.0    |          |
| o-Xylene                  | ug/l                     | 1               | 5                  | ND     |          |
| Xylenes, total            | ug/l                     | 1               | 5                  | 2.0    |          |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-17S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1600

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     | R        |
| Benzene           | ng/g  | 0.5             | 14                 | ND     | R        |
| Trichloroethylene | ng/g  | 1               | 700                | ND     | R        |
| Toluene           | ng/g  | 1               | 100                | ND     | R        |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     | R        |
| Xylenes, total    | ng/g  | 1               | 100                | ND     | R        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/17/96

Date Analyzed : 10/18/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     | R        |
| Acenaphthene           | ng/g  | 200             | 400                | ND     | R        |
| Fluorene               | ng/g  | 200             | 1000               | ND     | R        |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     | R        |
| Anthracene             | ng/g  | 200             | 1000               | ND     | R        |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     | R        |
| Pyrene                 | ng/g  | 200             | 1000               | ND     | R        |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     | R        |
| Chrysene               | ng/g  | 200             | 0.04               | ND     | R        |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     | R        |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     | R        |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     | R        |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     | R        |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     | R        |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     | R        |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-17S-A

Matrix : Soil/Solid

Site ID : BSAGP

Date : 12/10/96

Time : 1245

Project No. : 17257

| Test Code: 8021      Lab : CTM<br>Description : Volatiles<br>Date Extracted : 12/13/96      Date Analyzed : 12/13/96 |       |                 |                    |        |          | Test Code: 8270      Lab : CTM<br>Description : Semivolatiles<br>Date Extracted : 12/11/96      Date Analyzed : 12/12/96 |       |                 |                    |        |          |
|----------------------------------------------------------------------------------------------------------------------|-------|-----------------|--------------------|--------|----------|--------------------------------------------------------------------------------------------------------------------------|-------|-----------------|--------------------|--------|----------|
| Parameter                                                                                                            | Units | Detection Limit | Regulatory Limit * | Result | DataFlag | Parameter                                                                                                                | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                                                                                                                 | ng/g  | 1               | 1000               | ND     |          | Naphthalene                                                                                                              | ng/g  | 230             | 200                | ND     |          |
| Benzene                                                                                                              | ng/g  | 0.7             | 14                 | ND     |          | Acenaphthene                                                                                                             | ng/g  | 230             | 400                | ND     |          |
| Trichloroethylene                                                                                                    | ng/g  | 1               | 700                | ND     |          | Fluorene                                                                                                                 | ng/g  | 230             | 1000               | ND     |          |
| Toluene                                                                                                              | ng/g  | 1               | 100                | ND     |          | Phenanthrene                                                                                                             | ng/g  | 230             | 1000               | ND     |          |
| Ethylbenzene                                                                                                         | ng/g  | 1               | 100                | ND     |          | Anthracene                                                                                                               | ng/g  | 230             | 1000               | ND     |          |
| m,p-Xylene                                                                                                           | ng/g  | 1               | 100                | ND     |          | Fluoranthene                                                                                                             | ng/g  | 230             | 1000               | ND     |          |
| o-Xylene                                                                                                             | ng/g  | 1               | 100                | ND     |          | Pyrene                                                                                                                   | ng/g  | 230             | 1000               | ND     |          |
| Xylenes, total                                                                                                       | ng/g  | 1               | 100                | ND     |          | Benzo(a)anthracene                                                                                                       | ng/g  | 230             | 0.04               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Chrysene                                                                                                                 | ng/g  | 230             | 0.04               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Benzo(b)fluoranthene                                                                                                     | ng/g  | 230             | 0.04               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Benzo(k)fluoranthene                                                                                                     | ng/g  | 230             | 0.04               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Benzo(a)pyrene                                                                                                           | ng/g  | 230             | 0.04               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Indeno(1,2,3-cd)pyrene                                                                                                   | ng/g  | 230             | 0.04               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Dibenz(a,h)anthracene                                                                                                    | ng/g  | 230             | 1000               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Benzo(g,h,i)perylene                                                                                                     | ng/g  | 230             | 0.04               | ND     |          |
|                                                                                                                      |       |                 |                    |        |          | Total PAHs                                                                                                               | ng/g  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
 B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
 R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
 AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
 \* NYSDEC Groundwater Quality Standards or Guidance Values  
 # indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-17W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/3/96

Time : 0800

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 2.0    |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/5/96

Date Analyzed : 10/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-17W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1405

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | ND     |          |
| o-Xylene          | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-18S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1645

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 2               | 1000               | ND     | R        |
| Benzene           | ng/g  | 0.8             | 14                 | ND     | R        |
| Trichloroethylene | ng/g  | 2               | 700                | ND     | R        |
| Toluene           | ng/g  | 2               | 100                | ND     | R        |
| Ethylbenzene      | ng/g  | 2               | 100                | ND     | R        |
| Xylenes, total    | ng/g  | 2               | 100                | ND     | R        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/17/96

Date Analyzed : 10/18/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 260             | 200                | ND     | R        |
| Acenaphthene           | ng/g  | 260             | 400                | ND     | R        |
| Fluorene               | ng/g  | 260             | 1000               | ND     | R        |
| Phenanthrene           | ng/g  | 260             | 1000               | ND     | R        |
| Anthracene             | ng/g  | 260             | 1000               | ND     | R        |
| Fluoranthene           | ng/g  | 260             | 1000               | ND     | R        |
| Pyrene                 | ng/g  | 260             | 1000               | ND     | R        |
| Benzo(a)anthracene     | ng/g  | 260             | 0.04               | ND     | R        |
| Chrysene               | ng/g  | 260             | 0.04               | ND     | R        |
| Benzo(b)fluoranthene   | ng/g  | 260             | 0.04               | ND     | R        |
| Benzo(k)fluoranthene   | ng/g  | 260             | 0.04               | ND     | R        |
| Benzo(a)pyrene         | ng/g  | 260             | 0.04               | ND     | R        |
| Indeno(1,2,3-cd)pyrene | ng/g  | 260             | 0.04               | ND     | R        |
| Dibenz(a,h)anthracene  | ng/g  | 260             | 1000               | ND     | R        |
| Benzo(g,h,i)perylene   | ng/g  | 260             | 0.04               | ND     | R        |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinse sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-18S-A

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 1425

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/13/96

Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| m,p-Xylene        | ng/g  | 1               | 100                | ND     |          |
| o-Xylene          | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/11/96

Date Analyzed : 12/12/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 200             | 400                | ND     |          |
| Fluorene               | ng/g  | 200             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     |          |
| Anthracene             | ng/g  | 200             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 200             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-18S-A-D

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 1425

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/11/96

Date Analyzed : 12/12/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 220             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 220             | 400                | ND     |          |
| Fluorene               | ng/g  | 220             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 220             | 1000               | ND     |          |
| Anthracene             | ng/g  | 220             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 220             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 220             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 220             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 220             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 220             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 220             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 220             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 220             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 220             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 220             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-18W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/3/96

Time : 0815

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/5/96

Date Analyzed : 10/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-18W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1310

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | 2.0    |          |
| o-Xylene          | ug/l  | 1               | 5                  | 2.0    |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 4.0    |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-19S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1710

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     | R        |
| Benzene           | ng/g  | 0.7             | 14                 | ND     | R        |
| Trichloroethylene | ng/g  | 1               | 700                | ND     | R        |
| Toluene           | ng/g  | 1               | 100                | ND     | R        |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     | R        |
| Xylenes, total    | ng/g  | 1               | 100                | ND     | R        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/17/96

Date Analyzed : 10/18/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 250             | 200                | ND     | R        |
| Acenaphthene           | ng/g  | 250             | 400                | ND     | R        |
| Fluorene               | ng/g  | 250             | 1000               | ND     | R        |
| Phenanthrene           | ng/g  | 250             | 1000               | ND     | R        |
| Anthracene             | ng/g  | 250             | 1000               | ND     | R        |
| Fluoranthene           | ng/g  | 250             | 1000               | ND     | R        |
| Pyrene                 | ng/g  | 250             | 1000               | ND     | R        |
| Benzo(a)anthracene     | ng/g  | 250             | 0.04               | ND     | R        |
| Chrysene               | ng/g  | 250             | 0.04               | ND     | R        |
| Benzo(b)fluoranthene   | ng/g  | 250             | 0.04               | ND     | R        |
| Benzo(k)fluoranthene   | ng/g  | 250             | 0.04               | ND     | R        |
| Benzo(a)pyrene         | ng/g  | 250             | 0.04               | ND     | R        |
| Indeno(1,2,3-cd)pyrene | ng/g  | 250             | 0.04               | ND     | R        |
| Dibenz(a,h)anthracene  | ng/g  | 250             | 1000               | ND     | R        |
| Benzo(g,h,i)perylene   | ng/g  | 250             | 0.04               | ND     | R        |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-19S-A  
Site ID : BSAGP  
Project No. : 17257

Matrix : Soil/Solid

Date : 12/11/96 Time : 0750

Test Code: 8021 Lab : CTM  
Description : Volatiles  
Date Extracted : 12/14/96 Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | 100.0  | #        |
| m,p-Xylene        | ng/g  | 1               | 100                | 470.0  | #        |
| o-Xylene          | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | 470.0  | #        |

Test Code: 8270 Lab : CTM  
Description : Semivolatiles  
Date Extracted : 12/12/96 Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 200             | 400                | ND     |          |
| Fluorene               | ng/g  | 200             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     |          |
| Anthracene             | ng/g  | 200             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 200             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

Plattsburgh AFB Analytical Results

SampleID : BS-GP-19W  
Site ID : BSAGP  
Project No. : 17257

Matrix : Aqueous  
Date : 10/3/96 Time : 0900

| Test Code:                | 8021  | Lab :                    | CTM                |        |          |
|---------------------------|-------|--------------------------|--------------------|--------|----------|
| Description : Volatiles   |       |                          |                    |        |          |
| Date Extracted : 10/17/96 |       | Date Analyzed : 10/17/96 |                    |        |          |
| Parameter                 | Units | Detection Limit          | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ug/l  | 1                        | 50                 | ND     |          |
| Benzene                   | ug/l  | 0.5                      | 0.70               | 2.0    | #        |
| Trichloroethylene         | ug/l  | 1                        | 5                  | ND     |          |
| Toluene                   | ug/l  | 1                        | 5                  | 3.0    |          |
| Ethylbenzene              | ug/l  | 1                        | 5                  | 340.0  | #        |
| Xylenes, total            | ug/l  | 1                        | 5                  | 1500.0 | #        |

| Test Code:                  | 8270  | Lab :                   | CTM                |        |          |
|-----------------------------|-------|-------------------------|--------------------|--------|----------|
| Description : Semivolatiles |       |                         |                    |        |          |
| Date Extracted : 10/5/96    |       | Date Analyzed : 10/9/96 |                    |        |          |
| Parameter                   | Units | Detection Limit         | Regulatory Limit * | Result | DataFlag |
| Naphthalene                 | ug/l  | 5                       | 10                 | ND     |          |
| Acenaphthene                | ug/l  | 5                       | 20                 | ND     |          |
| Fluorene                    | ug/l  | 5                       | 50                 | ND     |          |
| Phenanthrene                | ug/l  | 5                       | 50                 | ND     |          |
| Anthracene                  | ug/l  | 5                       | 50                 | ND     |          |
| Fluoranthene                | ug/l  | 5                       | 50                 | ND     |          |
| Pyrene                      | ug/l  | 5                       | 50                 | ND     |          |
| Benzo(a)anthracene          | ug/l  | 5                       | 0.002              | ND     |          |
| Chrysene                    | ug/l  | 5                       | 0.002              | ND     |          |
| Benzo(b)fluoranthene        | ug/l  | 5                       | 0.002              | ND     |          |
| Benzo(k)fluoranthene        | ug/l  | 5                       | 0.002              | ND     |          |
| Benzo(a)pyrene              | ug/l  | 5                       | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene      | ug/l  | 5                       | 0.002              | ND     |          |
| Dibenz(a,h)anthracene       | ug/l  | 5                       | 50                 | ND     |          |
| Benzo(g,h,i)perylene        | ug/l  | 5                       | 0.002              | ND     |          |
| Total PAHs                  | ug/l  |                         |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-19W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1315

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/19/96

Date Analyzed : 12/19/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | 2.0    |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | 39.0   | #        |
| m,p-Xylene        | ug/l  | 1               | 5                  | 170.0  | #        |
| o-Xylene          | ug/l  | 1               | 5                  | 2.0    |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 172.0  | #        |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-20S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1810

| Test Code: 8021 Lab: CTM                           |       |                 |                    |        |          | Test Code: 8270 Lab: CTM                           |       |                 |                    |        |          |
|----------------------------------------------------|-------|-----------------|--------------------|--------|----------|----------------------------------------------------|-------|-----------------|--------------------|--------|----------|
| Description : Volatiles                            |       |                 |                    |        |          | Description : Semivolatiles                        |       |                 |                    |        |          |
| Date Extracted : 10/17/96 Date Analyzed : 10/17/96 |       |                 |                    |        |          | Date Extracted : 10/17/96 Date Analyzed : 10/18/96 |       |                 |                    |        |          |
| Parameter                                          | Units | Detection Limit | Regulatory Limit * | Result | DataFlag | Parameter                                          | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                                               | ng/g  | 1               | 1000               | ND     | R        | Naphthalene                                        | ng/g  | 190             | 200                | ND     | R        |
| Benzene                                            | ng/g  | 0.5             | 14                 | ND     | R        | Acenaphthene                                       | ng/g  | 190             | 400                | ND     | R        |
| Trichloroethylene                                  | ng/g  | 1               | 700                | ND     | R        | Fluorene                                           | ng/g  | 190             | 1000               | ND     | R        |
| Toluene                                            | ng/g  | 1               | 100                | 10.0   | R        | Phenanthrene                                       | ng/g  | 190             | 1000               | ND     | R        |
| Ethylbenzene                                       | ng/g  | 1               | 100                | 150.0  | #R       | Anthracene                                         | ng/g  | 190             | 1000               | ND     | R        |
| Xylenes, total                                     | ng/g  | 1               | 100                | 190.0  | #R       | Fluoranthene                                       | ng/g  | 190             | 1000               | ND     | R        |
|                                                    |       |                 |                    |        |          | Pyrene                                             | ng/g  | 190             | 1000               | ND     | R        |
|                                                    |       |                 |                    |        |          | Benzo(a)anthracene                                 | ng/g  | 190             | 0.04               | ND     | R        |
|                                                    |       |                 |                    |        |          | Chrysene                                           | ng/g  | 190             | 0.04               | ND     | R        |
|                                                    |       |                 |                    |        |          | Benzo(b)fluoranthene                               | ng/g  | 190             | 0.04               | ND     | R        |
|                                                    |       |                 |                    |        |          | Benzo(k)fluoranthene                               | ng/g  | 190             | 0.04               | ND     | R        |
|                                                    |       |                 |                    |        |          | Benzo(a)pyrene                                     | ng/g  | 190             | 0.04               | ND     | R        |
|                                                    |       |                 |                    |        |          | Indeno(1,2,3-cd)pyrene                             | ng/g  | 190             | 0.04               | ND     | R        |
|                                                    |       |                 |                    |        |          | Dibenz(a,h)anthracene                              | ng/g  | 190             | 1000               | ND     | R        |
|                                                    |       |                 |                    |        |          | Benzo(g,h,i)perylene                               | ng/g  | 190             | 0.04               | ND     | R        |
|                                                    |       |                 |                    |        |          | Total PAHs                                         | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/4/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-20S-1

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/12/1996 Time : 0835

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/1996

Date Analyzed : 12/14/1996

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | 17.0   |          |
| m,p-Xylene        | ng/g  | 1               | 100                | 28.0   |          |
| o-Xylene          | ng/g  | 1               | 100                | 10.0   |          |
| Xylenes, total    | ng/g  | 1               | 100                | 38.0   |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/1996

Date Analyzed : 12/14/1996

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 210             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 210             | 400                | ND     |          |
| Fluorene               | ng/g  | 210             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 210             | 1000               | ND     |          |
| Anthracene             | ng/g  | 210             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 210             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 210             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 210             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 210             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 210             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 210             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 210             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 210             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 210             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 210             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinse sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-20W  
Site ID : BSAGP  
Project No. : 17257

Matrix : Aqueous

Date : 10/3/96 Time : 1020

| Test Code:                | 8021  | Lab :                    | CTM                |        |          |
|---------------------------|-------|--------------------------|--------------------|--------|----------|
| Description : Volatiles   |       |                          |                    |        |          |
| Date Extracted : 10/18/96 |       | Date Analyzed : 10/18/96 |                    |        |          |
| Parameter                 | Units | Detection Limit          | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ug/l  | 10                       | 50                 | ND     | DR       |
| Benzene                   | ug/l  | 5                        | 0.70               | ND     | DR       |
| Trichloroethylene         | ug/l  | 10                       | 5                  | ND     | DR       |
| Toluene                   | ug/l  | 10                       | 5                  | 170.0  | #DR      |
| Ethylbenzene              | ug/l  | 10                       | 5                  | 220.0  | #DR      |
| Xylenes, total            | ug/l  | 10                       | 5                  | 2000.0 | #DR      |

| Test Code: 8270             |       | Lab : CTM       |                         |        |          |
|-----------------------------|-------|-----------------|-------------------------|--------|----------|
| Description : Semivolatiles |       |                 |                         |        |          |
| Date Extracted : 10/5/96    |       |                 | Date Analyzed : 10/8/96 |        |          |
| Parameter                   | Units | Detection Limit | Regulatory Limit *      | Result | DataFlag |
| Naphthalene                 | ug/l  | 5               | 10                      | 40     | #        |
| Acenaphthene                | ug/l  | 5               | 20                      | 6      |          |
| Fluorene                    | ug/l  | 5               | 50                      | 8      |          |
| Phenanthrene                | ug/l  | 5               | 50                      | 22     |          |
| Anthracene                  | ug/l  | 5               | 50                      | 8      |          |
| Fluoranthene                | ug/l  | 5               | 50                      | 23     |          |
| Pyrene                      | ug/l  | 5               | 50                      | 18     |          |
| Benzo(a)anthracene          | ug/l  | 5               | 0.002                   | 8      | #        |
| Chrysene                    | ug/l  | 5               | 0.002                   | ND     |          |
| Benzo(b)fluoranthene        | ug/l  | 5               | 0.002                   | ND     |          |
| Benzo(k)fluoranthene        | ug/l  | 5               | 0.002                   | ND     |          |
| Benzo(a)pyrene              | ug/l  | 5               | 0.002                   | ND     |          |
| Indeno(1,2,3-cd)pyrene      | ug/l  | 5               | 0.002                   | ND     |          |
| Dibenz(a,h)anthracene       | ug/l  | 5               | 50                      | ND     |          |
| Benzo(g,h,i)perylene        | ug/l  | 5               | 0.002                   | ND     |          |
| Total PAHs                  | ug/l  |                 |                         | 133    |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-20W-1

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/12/96

Time : 0950

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | 4.0    |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | 18.0   | #        |
| o-Xylene          | ug/l  | 1               | 5                  | 3.0    |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 21.0   | #        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SR = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-21S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 10/2/96

Time : 1820

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     | R        |
| Benzene           | ng/g  | 0.6             | 14                 | ND     | R        |
| Trichloroethylene | ng/g  | 1               | 700                | ND     | R        |
| Toluene           | ng/g  | 1               | 100                | ND     | R        |
| Ethylbenzene      | ng/g  | 1               | 100                | 15.0   | R        |
| Xylenes, total    | ng/g  | 1               | 100                | 32.0   | R        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/17/96

Date Analyzed : 10/18/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     | R        |
| Acenaphthene           | ng/g  | 200             | 400                | ND     | R        |
| Fluorene               | ng/g  | 200             | 1000               | ND     | R        |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     | R        |
| Anthracene             | ng/g  | 200             | 1000               | ND     | R        |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     | R        |
| Pyrene                 | ng/g  | 200             | 1000               | ND     | R        |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     | R        |
| Chrysene               | ng/g  | 200             | 0.04               | ND     | R        |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     | R        |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     | R        |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     | R        |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     | R        |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     | R        |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     | R        |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

Plattsburgh AFB Analytical Results

SampleID : BS-GP-21S-A  
Site ID : BSAGP  
Project No. : 17257

Matrix : Soil/Solid  
Date : 12/12/96 Time : 0845

| Test Code:                | 8021  | Lab :                    | CTM                |        |          |
|---------------------------|-------|--------------------------|--------------------|--------|----------|
| Description : Volatiles   |       |                          |                    |        |          |
| Date Extracted : 12/14/96 |       | Date Analyzed : 12/14/96 |                    |        |          |
| Parameter                 | Units | Detection Limit          | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ng/g  | 1                        | 1000               | ND     |          |
| Benzene                   | ng/g  | 0.5                      | 14                 | ND     |          |
| Trichloroethylene         | ng/g  | 1                        | 700                | ND     |          |
| Toluene                   | ng/g  | 1                        | 100                | ND     |          |
| Ethylbenzene              | ng/g  | 1                        | 100                | ND     |          |
| m,p-Xylene                | ng/g  | 1                        | 100                | ND     |          |
| o-Xylene                  | ng/g  | 1                        | 100                | ND     |          |
| Xylenes, total            | ng/g  | 1                        | 100                | ND     |          |

| Test Code: 8270             |       | Lab : CTM                |                    |        |          |
|-----------------------------|-------|--------------------------|--------------------|--------|----------|
| Description : Semivolatiles |       |                          |                    |        |          |
| Date Extracted : 12/12/96   |       | Date Analyzed : 12/14/96 |                    |        |          |
| Parameter                   | Units | Detection Limit          | Regulatory Limit * | Result | DataFlag |
| Naphthalene                 | ng/g  | 180                      | 200                | ND     |          |
| Acenaphthene                | ng/g  | 180                      | 400                | ND     |          |
| Fluorene                    | ng/g  | 180                      | 1000               | ND     |          |
| Phenanthrene                | ng/g  | 180                      | 1000               | ND     |          |
| Anthracene                  | ng/g  | 180                      | 1000               | ND     |          |
| Fluoranthene                | ng/g  | 180                      | 1000               | ND     |          |
| Pyrene                      | ng/g  | 180                      | 1000               | ND     |          |
| Benzo(a)anthracene          | ng/g  | 180                      | 0.04               | ND     |          |
| Chrysene                    | ng/g  | 180                      | 0.04               | ND     |          |
| Benzo(b)fluoranthene        | ng/g  | 180                      | 0.04               | ND     |          |
| Benzo(k)fluoranthene        | ng/g  | 180                      | 0.04               | ND     |          |
| Benzo(a)pyrene              | ng/g  | 180                      | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene      | ng/g  | 180                      | 0.04               | ND     |          |
| Dibenz(a,h)anthracene       | ng/g  | 180                      | 1000               | ND     |          |
| Benzo(g,h,i)perylene        | ng/g  | 180                      | 0.04               | ND     |          |
| Total PAHs                  | ng/g  |                          |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-21W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/3/96

Time : 1100

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | 2.0    |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | 3.0    |          |
| Xylenes, total    | ug/l  | 1               | 5                  | 17.0   | #        |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/5/96

Date Analyzed : 10/8/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-21W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/12/96

Time : 1010

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection<br>Limit | Regulatory<br>Limit * | Result | DataFlag |
|-------------------|-------|--------------------|-----------------------|--------|----------|
| MTBE              | ug/l  | 1                  | 50                    | ND     |          |
| Benzene           | ug/l  | 0.5                | 0.70                  | ND     |          |
| Trichloroethylene | ug/l  | 1                  | 5                     | ND     |          |
| Toluene           | ug/l  | 1                  | 5                     | ND     |          |
| Ethylbenzene      | ug/l  | 1                  | 5                     | ND     |          |
| m,p-Xylene        | ug/l  | 1                  | 5                     | ND     |          |
| o-Xylene          | ug/l  | 1                  | 5                     | ND     |          |
| Xylenes, total    | ug/l  | 1                  | 5                     | ND     |          |

ng/g = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample

\* TCLP Alternative Guidance Values obtained from the Stars Memo #1

# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-22S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 0945

Test Code: 8021 Lab : CTM  
Description : Volatiles  
Date Extracted : 12/14/96 Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 2               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.8             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 2               | 700                | ND     |          |
| Toluene           | ng/g  | 2               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 2               | 100                | ND     |          |
| m,p-Xylene        | ng/g  | 2               | 100                | ND     |          |
| o-Xylene          | ng/g  | 2               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 2               | 100                | ND     |          |

Test Code: 8270 Lab : CTM  
Description : Semivolatiles  
Date Extracted : 12/12/96 Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 250             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 250             | 400                | ND     |          |
| Fluorene               | ng/g  | 250             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 250             | 1000               | ND     |          |
| Anthracene             | ng/g  | 250             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 250             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 250             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 250             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 250             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 250             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 250             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 250             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 250             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 250             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 250             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-22W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1420

| Test Code: 8021 Lab: CTM  |       |                 |                          |        |          | Test Code: 8270 Lab: CTM    |       |                 |                          |        |          |
|---------------------------|-------|-----------------|--------------------------|--------|----------|-----------------------------|-------|-----------------|--------------------------|--------|----------|
| Description : Volatiles   |       |                 |                          |        |          | Description : Semivolatiles |       |                 |                          |        |          |
| Date Extracted : 12/14/96 |       |                 | Date Analyzed : 12/14/96 |        |          | Date Extracted : 12/12/96   |       |                 | Date Analyzed : 12/14/96 |        |          |
| Parameter                 | Units | Detection Limit | Regulatory Limit *       | Result | DataFlag | Parameter                   | Units | Detection Limit | Regulatory Limit *       | Result | DataFlag |
| MTBE                      | ug/l  | 1               | 50                       | ND     |          | Naphthalene                 | ug/l  | 5               | 10                       | ND     |          |
| Benzene                   | ug/l  | 0.5             | 0.70                     | ND     |          | Acenaphthene                | ug/l  | 5               | 20                       | ND     |          |
| Trichloroethylene         | ug/l  | 1               | 5                        | ND     |          | Fluorene                    | ug/l  | 5               | 50                       | ND     |          |
| Toluene                   | ug/l  | 1               | 5                        | ND     |          | Phenanthrene                | ug/l  | 5               | 50                       | ND     |          |
| Ethylbenzene              | ug/l  | 1               | 5                        | ND     |          | Anthracene                  | ug/l  | 5               | 50                       | ND     |          |
| m,p-Xylene                | ug/l  | 1               | 5                        | 2.0    |          | Fluoranthene                | ug/l  | 5               | 50                       | ND     |          |
| o-Xylene                  | ug/l  | 1               | 5                        | 1.0    |          | Pyrene                      | ug/l  | 5               | 50                       | ND     |          |
| Xylenes, total            | ug/l  | 1               | 5                        | 3.0    |          | Benzo(a)anthracene          | ug/l  | 5               | 0.002                    | ND     |          |
|                           |       |                 |                          |        |          | Chrysene                    | ug/l  | 5               | 0.002                    | ND     |          |
|                           |       |                 |                          |        |          | Benzo(b)fluoranthene        | ug/l  | 5               | 0.002                    | ND     |          |
|                           |       |                 |                          |        |          | Benzo(k)fluoranthene        | ug/l  | 5               | 0.002                    | ND     |          |
|                           |       |                 |                          |        |          | Benzo(a)pyrene              | ug/l  | 5               | 0.002                    | ND     |          |
|                           |       |                 |                          |        |          | Indeno(1,2,3-cd)pyrene      | ug/l  | 5               | 0.002                    | ND     |          |
|                           |       |                 |                          |        |          | Dibenz(a,h)anthracene       | ug/l  | 5               | 50                       | ND     |          |
|                           |       |                 |                          |        |          | Benzo(g,h,i)perylene        | ug/l  | 5               | 0.002                    | ND     |          |
|                           |       |                 |                          |        |          | Total PAHs                  | ug/l  |                 |                          | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-23S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1220

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ng/g  | 1               | 1000               | ND     |          |
| Benzene           | ng/g  | 0.6             | 14                 | ND     |          |
| Trichloroethylene | ng/g  | 1               | 700                | ND     |          |
| Toluene           | ng/g  | 1               | 100                | ND     |          |
| Ethylbenzene      | ng/g  | 1               | 100                | ND     |          |
| m,p-Xylene        | ng/g  | 1               | 100                | ND     |          |
| o-Xylene          | ng/g  | 1               | 100                | ND     |          |
| Xylenes, total    | ng/g  | 1               | 100                | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ng/g  | 200             | 200                | ND     |          |
| Acenaphthene           | ng/g  | 200             | 400                | ND     |          |
| Fluorene               | ng/g  | 200             | 1000               | ND     |          |
| Phenanthrene           | ng/g  | 200             | 1000               | ND     |          |
| Anthracene             | ng/g  | 200             | 1000               | ND     |          |
| Fluoranthene           | ng/g  | 200             | 1000               | ND     |          |
| Pyrene                 | ng/g  | 200             | 1000               | ND     |          |
| Benzo(a)anthracene     | ng/g  | 200             | 0.04               | ND     |          |
| Chrysene               | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(b)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(k)fluoranthene   | ng/g  | 200             | 0.04               | ND     |          |
| Benzo(a)pyrene         | ng/g  | 200             | 0.04               | ND     |          |
| Indeno(1,2,3-cd)pyrene | ng/g  | 200             | 0.04               | ND     |          |
| Dibenz(a,h)anthracene  | ng/g  | 200             | 1000               | ND     |          |
| Benzo(g,h,i)perylene   | ng/g  | 200             | 0.04               | ND     |          |
| Total PAHs             | ng/g  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : BS-GP-23W  
Site ID : BSAGP  
Project No. : 17257

Matrix : Aqueous

Date : 12/12/96 Time : 0830

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | 2.0    |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | ND     |          |
| o-Xylene          | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ng/g = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* TCLP Alternative Guidance Values obtained from the Stars Memo #1  
# indicates concentration above TCLP Alternative Guidance Values located in STARS Memo #1

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-24S

Matrix : Soil/Solid

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1045

| Test Code: 8021 Lab: CTM  |       |                 |                          |        |          | Test Code: 8270 Lab: CTM    |       |                 |                          |        |          |
|---------------------------|-------|-----------------|--------------------------|--------|----------|-----------------------------|-------|-----------------|--------------------------|--------|----------|
| Description : Volatiles   |       |                 |                          |        |          | Description : Semivolatiles |       |                 |                          |        |          |
| Date Extracted : 12/14/96 |       |                 | Date Analyzed : 12/14/96 |        |          | Date Extracted : 12/12/96   |       |                 | Date Analyzed : 12/12/96 |        |          |
| Parameter                 | Units | Detection Limit | Regulatory Limit *       | Result | DataFlag | Parameter                   | Units | Detection Limit | Regulatory Limit *       | Result | DataFlag |
| MTBE                      | ng/g  | 1               | 1000                     | ND     |          | Naphthalene                 | ng/g  | 200             | 200                      | ND     |          |
| Benzene                   | ng/g  | 0.6             | 14                       | ND     |          | Acenaphthene                | ng/g  | 200             | 400                      | ND     |          |
| Trichloroethylene         | ng/g  | 1               | 700                      | ND     |          | Fluorene                    | ng/g  | 200             | 1000                     | ND     |          |
| Toluene                   | ng/g  | 1               | 100                      | ND     |          | Phenanthrene                | ng/g  | 200             | 1000                     | ND     |          |
| Ethylbenzene              | ng/g  | 1               | 100                      | ND     |          | Anthracene                  | ng/g  | 200             | 1000                     | ND     |          |
| m,p-Xylene                | ng/g  | 1               | 100                      | ND     |          | Fluoranthene                | ng/g  | 200             | 1000                     | ND     |          |
| o-Xylene                  | ng/g  | 1               | 100                      | ND     |          | Pyrene                      | ng/g  | 200             | 1000                     | ND     |          |
| Xylenes, total            | ng/g  | 1               | 100                      | ND     |          | Benzo(a)anthracene          | ng/g  | 200             | 0.04                     | ND     |          |
|                           |       |                 |                          |        |          | Chrysene                    | ng/g  | 200             | 0.04                     | ND     |          |
|                           |       |                 |                          |        |          | Benzo(b)fluoranthene        | ng/g  | 200             | 0.04                     | ND     |          |
|                           |       |                 |                          |        |          | Benzo(k)fluoranthene        | ng/g  | 200             | 0.04                     | ND     |          |
|                           |       |                 |                          |        |          | Benzo(a)pyrene              | ng/g  | 200             | 0.04                     | ND     |          |
|                           |       |                 |                          |        |          | Indeno(1,2,3-cd)pyrene      | ng/g  | 200             | 0.04                     | ND     |          |
|                           |       |                 |                          |        |          | Dibenz(a,h)anthracene       | ng/g  | 200             | 1000                     | ND     |          |
|                           |       |                 |                          |        |          | Benzo(g,h,i)perylene        | ng/g  | 200             | 0.04                     | ND     |          |
|                           |       |                 |                          |        |          | Total PAHs                  | ng/g  |                 |                          | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-24W

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1450

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/14/96

Date Analyzed : 12/14/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | ND     |          |
| o-Xylene          | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : BS-GP-24W-A

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/12/96

Time : 0745

| Test Code:                  | 8270  | Lab :                    | CTM                |        |          |
|-----------------------------|-------|--------------------------|--------------------|--------|----------|
| Description : Semivolatiles |       |                          |                    |        |          |
| Date Extracted : 12/12/96   |       | Date Analyzed : 12/17/96 |                    |        |          |
| Parameter                   | Units | Detection Limit          | Regulatory Limit * | Result | DataFlag |
| Naphthalene                 | ug/l  | 5                        | 10                 | ND     |          |
| Acenaphthene                | ug/l  | 5                        | 20                 | ND     |          |
| Fluorene                    | ug/l  | 5                        | 50                 | ND     |          |
| Phenanthrene                | ug/l  | 5                        | 50                 | ND     |          |
| Anthracene                  | ug/l  | 5                        | 50                 | ND     |          |
| Fluoranthene                | ug/l  | 5                        | 50                 | ND     |          |
| Pyrene                      | ug/l  | 5                        | 50                 | ND     |          |
| Benzo(a)anthracene          | ug/l  | 5                        | 0.002              | ND     |          |
| Chrysene                    | ug/l  | 5                        | 0.002              | ND     |          |
| Benzo(b)fluoranthene        | ug/l  | 5                        | 0.002              | ND     |          |
| Benzo(k)fluoranthene        | ug/l  | 5                        | 0.002              | ND     |          |
| Benzo(a)pyrene              | ug/l  | 5                        | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene      | ug/l  | 5                        | 0.002              | ND     |          |
| Dibenz(a,h)anthracene       | ug/l  | 5                        | 50                 | ND     |          |
| Benzo(g,h,i)perylene        | ug/l  | 5                        | 0.002              | ND     |          |
| Total PAHs                  | ug/l  |                          |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : EQ BLANK1

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 9/30/96

Time : 1620

Test Code: 8021      Lab : CTM  
Description : Volatiles  
Date Extracted : 10/11/96      Date Analyzed : 10/11/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270      Lab : CTM  
Description : Semivolatiles  
Date Extracted : 10/5/96      Date Analyzed : 10/7/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : EQ BLANK2

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/1/96

Time : 1200

| Test Code:                | 8021  | Lab :                    | CTM                |        |          |
|---------------------------|-------|--------------------------|--------------------|--------|----------|
| Description : Volatiles   |       |                          |                    |        |          |
| Date Extracted : 10/11/96 |       | Date Analyzed : 10/11/96 |                    |        |          |
| Parameter                 | Units | Detection Limit          | Regulatory Limit * | Result | DataFlag |
| MTBE                      | ug/l  | 40                       | 50                 | ND     |          |
| Benzene                   | ug/l  | 5                        | 0.70               | ND     |          |
| Trichloroethylene         | ug/l  | 5                        | 5                  | ND     |          |
| Toluene                   | ug/l  | 5                        | 5                  | ND     |          |
| Ethylbenzene              | ug/l  | 5                        | 5                  | ND     |          |
| Xylenes, total            | ug/l  | 10                       | 5                  | ND     |          |

| Test Code:                  | 8270  | Lab :                   | CTM                |        |          |
|-----------------------------|-------|-------------------------|--------------------|--------|----------|
| Description : Semivolatiles |       |                         |                    |        |          |
| Date Extracted : 10/4/96    |       | Date Analyzed : 10/7/96 |                    |        |          |
| Parameter                   | Units | Detection Limit         | Regulatory Limit * | Result | DataFlag |
| Naphthalene                 | ug/l  | 5                       | 10                 | ND     |          |
| Acenaphthene                | ug/l  | 5                       | 20                 | ND     |          |
| Fluorene                    | ug/l  | 5                       | 50                 | ND     |          |
| Phenanthrene                | ug/l  | 5                       | 50                 | ND     |          |
| Anthracene                  | ug/l  | 5                       | 50                 | ND     |          |
| Fluoranthene                | ug/l  | 5                       | 50                 | ND     |          |
| Pyrene                      | ug/l  | 5                       | 50                 | ND     |          |
| Benzo(a)anthracene          | ug/l  | 5                       | 0.002              | ND     |          |
| Chrysene                    | ug/l  | 5                       | 0.002              | ND     |          |
| Benzo(b)fluoranthene        | ug/l  | 5                       | 0.002              | ND     |          |
| Benzo(k)fluoranthene        | ug/l  | 5                       | 0.002              | ND     |          |
| Benzo(a)pyrene              | ug/l  | 5                       | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene      | ug/l  | 5                       | 0.002              | ND     |          |
| Dibenz(a,h)anthracene       | ug/l  | 5                       | 50                 | ND     |          |
| Benzo(g,h,i)perylene        | ug/l  | 5                       | 0.002              | ND     |          |
| Total PAHs                  | ug/l  |                         |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : ER100296  
Site ID : BSAGP  
Project No. : 17257

Matrix : Aqueous  
Date : 10/2/96 Time : 1645

| Test Code: 8021 Lab: CTM                           |       |                 |                    |        |          | Test Code: 8270 Lab: CTM                         |       |                 |                    |        |          |
|----------------------------------------------------|-------|-----------------|--------------------|--------|----------|--------------------------------------------------|-------|-----------------|--------------------|--------|----------|
| Description : Volatiles                            |       |                 |                    |        |          | Description : Semivolatiles                      |       |                 |                    |        |          |
| Date Extracted : 10/16/96 Date Analyzed : 10/16/96 |       |                 |                    |        |          | Date Extracted : 10/8/96 Date Analyzed : 10/9/96 |       |                 |                    |        |          |
| Parameter                                          | Units | Detection Limit | Regulatory Limit * | Result | DataFlag | Parameter                                        | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
| MTBE                                               | ug/l  | 1               | 50                 | ND     |          | Naphthalene                                      | ug/l  | 5               | 10                 | ND     |          |
| Benzene                                            | ug/l  | 0.5             | 0.70               | ND     |          | Acenaphthene                                     | ug/l  | 5               | 20                 | ND     |          |
| Trichloroethylene                                  | ug/l  | 1               | 5                  | ND     |          | Fluorene                                         | ug/l  | 5               | 50                 | ND     |          |
| Toluene                                            | ug/l  | 1               | 5                  | ND     |          | Phenanthrene                                     | ug/l  | 5               | 50                 | ND     |          |
| Ethylbenzene                                       | ug/l  | 1               | 5                  | ND     |          | Anthracene                                       | ug/l  | 5               | 50                 | ND     |          |
| Xylenes, total                                     | ug/l  | 1               | 5                  | ND     |          | Fluoranthene                                     | ug/l  | 5               | 50                 | ND     |          |
|                                                    |       |                 |                    |        |          | Pyrene                                           | ug/l  | 5               | 50                 | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(a)anthracene                               | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Chrysene                                         | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(b)fluoranthene                             | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(k)fluoranthene                             | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(a)pyrene                                   | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Indeno(1,2,3-cd)pyrene                           | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Dibenz(a,h)anthracene                            | ug/l  | 5               | 50                 | ND     |          |
|                                                    |       |                 |                    |        |          | Benzo(g,h,i)perylene                             | ug/l  | 5               | 0.002              | ND     |          |
|                                                    |       |                 |                    |        |          | Total PAHs                                       | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : ER100396

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 10/3/96

Time : 0730

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 10/17/96

Date Analyzed : 10/17/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 10/8/96

Date Analyzed : 10/17/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : AFB121096

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 14:15

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/13/96

Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

# Plattsburgh AFB Analytical Results

SampleID : ER121096

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/10/96

Time : 1110

Test Code: 8021 Lab : CTM  
Description : Volatiles  
Date Extracted : 12/13/96 Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | ND     |          |
| o-Xylene          | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270 Lab : CTM  
Description : Semivolatiles  
Date Extracted : 12/11/96 Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria EX = ID prefix for excavation sample SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : AFB121196

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 14:25

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/13/96

Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

ug/l = ppb mg/kg = ppm ND=compound not detected NA = analysis not applicable for this site J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample D = sample was diluted, see corresponding detection limit E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria S = surrogate recovery is outside control limits  
EX = ID prefix for excavation sample SP = ID prefix for stockpile sample AB(or FB) = ID prefix for an ambient blank sample ER = ID prefix for an equipment rinsate sample LQ = ID suffix for a liquid sample  
RE = ID suffix for re-extraction/re-analysis  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values



Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : ER121196

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/11/96

Time : 1500

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/13/96

Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | ND     |          |
| o-Xylene          | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

Revised Report Date: 4/8/97  
Original Report Date: 1/15/97

## Plattsburgh AFB Analytical Results

SampleID : ER121296

Matrix : Aqueous

Site ID : BSAGP

Project No. : 17257

Date : 12/12/96

Time : 0910

Test Code: 8021

Lab : CTM

Description : Volatiles

Date Extracted : 12/13/96

Date Analyzed : 12/13/96

| Parameter         | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|-------------------|-------|-----------------|--------------------|--------|----------|
| MTBE              | ug/l  | 1               | 50                 | ND     |          |
| Benzene           | ug/l  | 0.5             | 0.70               | ND     |          |
| Trichloroethylene | ug/l  | 1               | 5                  | ND     |          |
| Toluene           | ug/l  | 1               | 5                  | ND     |          |
| Ethylbenzene      | ug/l  | 1               | 5                  | ND     |          |
| m,p-Xylene        | ug/l  | 1               | 5                  | ND     |          |
| o-Xylene          | ug/l  | 1               | 5                  | ND     |          |
| Xylenes, total    | ug/l  | 1               | 5                  | ND     |          |

Test Code: 8270

Lab : CTM

Description : Semivolatiles

Date Extracted : 12/12/96

Date Analyzed : 12/14/96

| Parameter              | Units | Detection Limit | Regulatory Limit * | Result | DataFlag |
|------------------------|-------|-----------------|--------------------|--------|----------|
| Naphthalene            | ug/l  | 5               | 10                 | ND     |          |
| Acenaphthene           | ug/l  | 5               | 20                 | ND     |          |
| Fluorene               | ug/l  | 5               | 50                 | ND     |          |
| Phenanthrene           | ug/l  | 5               | 50                 | ND     |          |
| Anthracene             | ug/l  | 5               | 50                 | ND     |          |
| Fluoranthene           | ug/l  | 5               | 50                 | ND     |          |
| Pyrene                 | ug/l  | 5               | 50                 | ND     |          |
| Benzo(a)anthracene     | ug/l  | 5               | 0.002              | ND     |          |
| Chrysene               | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(b)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(k)fluoranthene   | ug/l  | 5               | 0.002              | ND     |          |
| Benzo(a)pyrene         | ug/l  | 5               | 0.002              | ND     |          |
| Indeno(1,2,3-cd)pyrene | ug/l  | 5               | 0.002              | ND     |          |
| Dibenz(a,h)anthracene  | ug/l  | 5               | 50                 | ND     |          |
| Benzo(g,h,i)perylene   | ug/l  | 5               | 0.002              | ND     |          |
| Total PAHs             | ug/l  |                 |                    | ND     |          |

ug/l = ppb    mg/kg = ppm    ND=compound not detected    NA = analysis not applicable for this site    J = estimated value is below the practical quantitation limit and above the method detection limit  
B = analyte was detected in an associated blank as well as in the sample    D = sample was diluted, see corresponding detection limit    E = estimated concentration is above the calibration range of the instrument  
R = data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria    EX = ID prefix for excavation sample    SP = ID prefix for stockpile sample  
AB(or FB) = ID prefix for an ambient blank sample    ER = ID prefix for an equipment rinsate sample    LQ = ID suffix for a liquid sample  
\* NYSDEC Groundwater Quality Standards or Guidance Values  
# indicates concentration above the NYSDEC groundwater quality standards or guidance values

***APPENDIX D***  
***TRANSPORTATION AND DISPOSAL***  
***DOCUMENTATION***

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- D.1 HAZARDOUS WASTE REMOVAL**
- D.2 ASBESTOS PIPE REMOVAL**
- D.3 CONCRETE AND DEBRIS REMOVAL**
- D.4 SCRAP STEEL REMOVAL**
- D.5 RAILROAD TIE REMOVAL**
- D.6 CONTAMINATED SOIL REMOVAL**

## **D.1 HAZARDOUS WASTE REMOVAL**

## TRANSPORTATION AND DISPOSAL DOCUMENTATION

### HAZARDOUS WASTE REMOVAL (Rinse water from pigging and tank cleaning operations) PLATTSBURGH AFB – D.O. 003

| DATE     | MANIFEST #<br>NY4571924774- | TRUCK<br>PLATE # | QUANTITY<br>(GALLONS) | TOTAL<br>QUANTITY | COMMENTS                      |
|----------|-----------------------------|------------------|-----------------------|-------------------|-------------------------------|
| 01/22/96 | 00001                       | CT V 21931       | 5500                  | 5500              | JP-4, gasoline, oil and water |
| 01/22/96 | 00002                       | CT V 26580       | 5400                  | 10900             | JP-4, gasoline, oil and water |
| 01/24/96 | 96004                       | CT V 21931       | 5500                  | 16400             | JP-4, gasoline, oil and water |
| 01/24/96 | 96005                       | CT V 17860       | 4640                  | 21040             | JP-4, gasoline, oil and water |
| 01/26/86 | 96003                       | CT V 21932       | 5320                  | 26360             | JP-4, gasoline, oil and water |
| 01/30/96 | 96005                       | CT V 21932       | 5280                  | 31640             | JP-4, gasoline, oil and water |
| 02/20/96 | 96008                       | CT V 21932       | 5300                  | 36940             | JP-4, gasoline, oil and water |
| 02/22/96 | 96009                       | CT 59751         | 5485                  | 42425             | JP-4, gasoline, oil and water |
| 03/21/96 | 96010                       | CT V 21932       | 5100                  | 47525             | JP-4, gasoline, oil and water |
| 03/25/96 | 96011                       | CT V 26579       | 5445                  | 52970             | JP-4, gasoline, oil and water |
| 03/26/96 | 96012                       | CT V 21932       | 5200                  | 58170             | JP-4, gasoline, oil and water |
| 03/28/96 | 96013                       | CT V 26579       | 5400                  | 63570             | JP-4, gasoline, oil and water |
| 06/03/96 | 96014                       | CT 59751         | 5500                  | 69070             | JP-4, gasoline, oil and water |
| 06/05/96 | 96015                       | CT 59751         | 5500                  | 74570             | JP-4, gasoline, oil and water |
| 06/06/96 | 96016                       | CT V 21932       | 5300                  | 79870             | JP-4, gasoline, oil and water |
| 06/07/96 | 96017                       | CT 59751         | 5400                  | 85270             | JP-4, gasoline, oil and water |
| 06/10/96 | 96018                       | CT 59751         | 5480                  | 90750             | JP-4, gasoline, oil and water |
| 06/13/96 | 96018                       | CT V 21932       | 5300                  | 96050             | JP-4, gasoline, oil and water |
| 06/13/96 | 96019                       | CT 59751         | 5400                  | 101450            | JP-4, gasoline, oil and water |
| 06/17/96 | 00020                       | CT V 21932       | 5300                  | 106750            | JP-4, gasoline, oil and water |
| 06/18/96 | 96021                       | CT V 21932       | 5300                  | 112050            | JP-4, gasoline, oil and water |
| 06/18/96 | 96022                       | CT 59751         | 5425                  | 117475            | JP-4, gasoline, oil and water |
| 10/28/96 | 96023                       | -                | 5490                  | 122965            | JP-4, gasoline, oil and water |
| 10/29/96 | 96024                       | CT 59751         | 5500                  | 128465            | JP-4, gasoline, oil and water |
| 10/30/96 | 96025                       | CT V 26580       | 4914                  | 133379            | JP-4, gasoline, oil and water |

Note: This Table includes the rinse water from the ARS pigging operations, the ARS pumphouse tank cleaning operations, and the D.O. 006 tank cleaning operations. Rinse waters were combined in a 25K storage tank on Base and periodically transported off site for disposal.

## **D.2 ASBESTOS PIPE REMOVAL**



## *TRANSPORTATION AND DISPOSAL DOCUMENTATION*

### ASBESTOS PIPE REMOVAL PLATTSBURGH AFB – D.O. 003 AIRCRAFT REFUEL SYSTEM

| DATE     | TICKET<br># | LINEAR<br>FT | TOTAL<br>FT | DISPATCH<br># | COMMENTS                                                      |
|----------|-------------|--------------|-------------|---------------|---------------------------------------------------------------|
| 04/16/96 | 20448       | 880          | 880         | 312938        | 8": 42x20', 40x1'                                             |
| 04/17/96 | 21005       | 890          | 1770        | 312939        | 8": 43x20', 30x1'                                             |
| 04/17/96 | 21006       | 820          | 2590        | 312929        | 8": 24x20'; 10": 17x20'                                       |
| 04/17/96 | 21007       | 982          | 3572        | 312932        | 8": 22x20', 42x1'; 6": 12x20'; 10": 13x20'                    |
| 04/18/96 | 20460       | 820          | 4392        | 310047        | 8": 20x20'; 6": 7x20'; 10": 14x20'                            |
| 04/18/96 | 20461       | 880          | 5272        | 240054        | 8": 31x20'; 6": 4x20'; 10": 9x20'                             |
| 04/22/96 | 20472       | 760          | 6032        | 310006        | 8": 23x20'; 6": 5x20'; 10": 5x20'; mixed: 100x1'              |
| 04/23/96 | 21252       | 940          | 6972        | 312935        | 8": 28x20'; 6": 9x20'; 10": 10x20'                            |
| 04/23/96 | 21253       | 679          | 7651        | 310019        | 8": 18x20'; 6": 9x20'; 10": 5x20'; mixed: 39x1'               |
| 04/25/96 | 20180       | 838          | 8489        | 208807        | 8": 23x20'; 6": 8x20'; 10": 9x20'; mixed: 38x1'               |
| 04/25/96 | 20181       | 821          | 9310        | 310021        | 8": 21x20'; 6": 7x20'; 10": 9x20'; mixed: 81x1'               |
| 04/29/96 | 20188       | 886          | 10196       | 310007        | 8": 18x20'; 6": 9x20'; 10": 9x20'; mixed: 166x1'              |
| 05/01/96 | 21019       | 932          | 11128       | 310024        | 8": 24x20'; 6": 15x20'; 10": 5x20'; 3": 1x12'; mixed: 40x1'   |
| 05/01/96 | 21018       | 928          | 12056       | 310025        | 8": 24x20'; 6": 10x20'; 10": 10x20'; mixed: 48x1'             |
| 05/03/96 | 21028       | 852          | 12908       | 310035        | 8": 18x20'; 10": 5x20'; 3": 10x20'; mixed: 192x1'             |
| 05/07/96 | 21355       | 958          | 13866       | 310036        | 8": 25x20'; 10": 5x20'; 3": 9x20'; mixed: 18x1'               |
| 05/07/96 | 21356       | 620          | 14486       | 310038        | 8": 18x20'; 6": 9x20'; 3": 1x20'; mixed: 60x1'                |
| 05/09/96 | 21368       | 935          | 15421       | 310039        | 8": 14x20'; 6": 8x20'; 10": 13x20'; 3": 5x20'; mixed: 135x1'  |
| 05/09/96 | 21369       | 1035         | 16456       | 318935        | 8": 17x20'; 10": 13x20'; 3": 18x20'; mixed: 35x1'             |
| 05/17/96 | 21405       | 988          | 17444       | 310072        | 8": 20x20'; 6": 2x20'; 10": 14x20'; 3": 12x20'; mixed: 28x1'  |
| 05/17/96 | 21406       | 1060         | 18504       | 310073        | 8": 13x20'; 6": 11x20'; 10": 10x20'; 3": 7x20'; mixed: 40x1'  |
| 05/17/96 | 21409       | 881          | 19385       | 318936        | 8": 13x20'; 6": 15x20'; 10": 2x20'; 3": 8x20'; mixed: 121x1'  |
| 05/22/96 | 21148       | 1191         | 20576       | 318937        | 8": 20x20'; 6": 12x20'; 10": 20x20'; 3": 11x20'; mixed: 71x1' |
| 05/22/96 | 21149       | 995          | 21571       | 318938        | 8": 14x20'; 6": 5x20'; 10": 13x20'; 3": 3x20'; mixed: 155x1'  |
| 05/28/96 | 21450       | 959          | 22530       | 318951        | 8": 22x20'; 6": 1x20'; 10": 11x20'; 3": 9x20'; mixed: 99x1'   |
| 05/28/96 | 21451       | 937          | 23467       | 318952        | 8": 13x20'; 6": 5x20'; 10": 13x20'; 3": 10x20'; mixed: 117x1' |
| 05/31/96 | 23757       | 630          | 24097       | 319084        | 8": 2x20'; 10": 2x20'; 3": 21x20'; mixed: 130x1'              |
| 06/06/96 | 21191       | 740          | 24837       | 319079        | 8": 37x20'                                                    |
| 06/06/96 | 21063       | 763          | 25600       | 319080        | 8": 38x20', 3x1'                                              |
| 06/17/96 | 21099       | 1013         | 26613       | 325775        | 8": 35x20', 13x1'; 6": 30x10'                                 |
| 07/10/96 | 23632       | 720          | 27333       | 325888        | 8": 13x1'; 6": 4x20'; 10": 18x20'                             |
| 07/16/96 | 23645       | 740          | 28073       | 325887        | 8": 34x20', 44x1'; 3": 16x1'                                  |
| 07/17/96 | 23745       | 1039         | 29112       | 325889        | 8": 38x20', 94x1'; 6": 9x20'; 3": 5x1'                        |
| 07/24/96 | 11945       | 683          | 29795       | 325892        | 8": 19x20', 131x1'; 6": 6x20', 32x1'; 3": 20x1'               |
| 07/24/96 | 11955       | 436          | 30231       | 325893        | 8": 11x20', 70x1'; 6": 1x20', 14x1'; 3": 1x20', 92x1'         |

Note: Table includes asbestos removal information for both the Bulk Fuel Storage Area AST pipelines and the Aircraft Refuel System transmission pipelines.

DEC PERMIT NUMBER

5-0948-00025/00006

FACILITY/PROGRAM NUMBER(S)

10D01



## PERMIT

Under the Environmental Conservation Law (ECL)

EFFECTIVE DATE

APR 5 1996

EXPIRATION DATE

March 1, 2001

## TYPE OF PERMIT (Check all Applicable Boxes)

☐ New☒ Renewal☒ Modification☐ Permit to Construct☒ Permit to Operate☐ Article 15, Title 6:  
Protection of Water☐ Article 17, Titles 7, 8:  
SPDES☐ Article 27, Title 9; 6 NYCRR 373:  
Hazardous Waste Management☐ Article 15, Title 16:  
Water Supply☐ Article 19:  
Air Pollution Control☐ Article 34:  
Coastal Erosion Management☐ Article 15, Title 15:  
Water Transport☐ Article 23, Title 27:  
Mined Land Reclamation☐ Article 36:  
Floodplain Management☐ Article 15, Title 15:  
Long Island Wells☐ Article 24:  
Freshwater Wetlands☐ Articles 1, 3, 17, 18, 27, 37;  
6 NYCRR 380, Radiation Control☐ Article 15, Title 27:  
Wild, Scenic and Recreational Rivers☐ Article 25:  
Tidal Wetlands☐ Other: \_\_\_\_\_☐ 6 NYCRR 608:  
Water Quality Certification☒ Article 27, Title 7; 6 NYCRR 360:  
Solid Waste Management

## PERMIT ISSUED TO

Barry T. White

## TELEPHONE NUMBER

(518) 643-2731

## ADDRESS OF PERMITTEE

RR #2, Box 380A, Shingle Street, Morristonville, NY 12962

## CONTACT PERSON FOR PERMITTED WORK

Barry T. White

## TELEPHONE NUMBER

(518) 643-2731

## NAME AND ADDRESS OF PROJECT/FACILITY

White Pit C&amp;D Disposal Facility

## LOCATION OF PROJECT/FACILITY

Kelly Road

## COUNTY

Clinton

## TOWN/CITY/VILLAGE

Schuyler Falls

## WATERCOURSE/WETLAND NO.

## NYTM COORDINATES

E: 616 .0 N: 4247 .0

## DESCRIPTION OF AUTHORIZED ACTIVITY

Operation of a construction and demolition debris landfill in accordance with 6 NYCRR Part 360 and the engineering plans and report submitted in support of the permit application. The facility is limited to the disposal of no more than 200 tons/week of C&D debris.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified (See Reverse Side) and any Special Conditions included as part of this permit.

## DEPUTY PERMIT ADMINISTRATOR

Robert Forrester

## ADDRESS

Route 86, P.O. Box 296, Ray Brook, NY 12977-0296

## AUTHORIZED SIGNATURE

Robert P. Forrester

## DATE

4/4/96

Page 1 of 3

## GENERAL CONDITIONS

### Inspections

1. The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3). A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

### Permit Changes and Renewals

2. The Department reserves the right to modify, suspend or revoke this permit when:
  - a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
  - b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
  - c) new material information is discovered; or
  - d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.
3. The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms, fees or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.
4. The permittee must submit a renewal application at least:
  - a) 180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities (HWMF), major Air Pollution Control (APC) and Solid Waste Management Facilities (SWMF); and
  - b) 30 days before expiration of all other permit types.
5. Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

### Other Legal Obligations of Permittee

6. The permittee has accepted expressly, by the execution of the application, the full legal responsibilities for all damages, direct or indirect, of whatever nature and by whomever suffered, arising out of the project described in this permit and has agreed to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from this project.
7. This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.
8. The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required for this project.

## SPECIAL CONDITIONS

For Article 27 ( Solid Waste Management )

### 1. SUBMITTAL

Unless otherwise specified, all submissions required by this permit shall be made to the Region 5 office of the Department of Environmental Conservation (P.O. Box 296, Ray Brook, NY 12977), to the attention of the Regional Solid and Hazardous Materials Engineer.

### 2. OPERATIONAL REQUIREMENTS

The operation of this facility shall be in accordance with the provisions of this permit, 6NYCRR360 (effective October 9, 93), and the permit documents.

### 3. PERMIT DOCUMENTS

The following documents were submitted in support of the original permit application and revised for the renewal/modification and are included by reference as part of the permit.

- a. **BARRY WHITE CONSTRUCTION & DEMOLITION DEBRIS LANDFILL**  
Application to the New York State Department of Environmental Conservation, prepared by Robert Sutherland, P.E. and dated February 5, 1991 revised February 2, 1996.
- b. **BARRY WHITE CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL OPERATION AND MAINTENANCE MANUAL.**
- c. **Drwg. #90105-XS dated August 13, 1990 with latest revision dated February 02, 96, titled Profiles & cross-sections & Adjoining property map.**
- d. **Drwg. 90105-EP dated June 01, 1990 with latest revision dated February 2, 1996, titled Engineering Plan White Pit Construction and Demolition Debris Landfill.**

### 4. ACCEPTABLE WASTE

Wastes accepted for disposal at the landfill are limited to those solid wastes meeting the definition of "Construction & Demolition (C&D) Debris" as defined in 6 NYCRR 360-1.2(b)(38).

### 5. RECYCLABLES AND PROCESSING

The separation of metal, uncontaminated concrete, concrete products, asphalt pavement, brick, soil and rock from incoming C&D Debris shall be limited to the area shown on the permit plans. All non-recyclable material must be placed in the landfill within thirty (30) days of receipt. The facilities annual report shall include an accounting of materials recycled including quantities and destination.

### 6. CLOSURE

The facility shall be closed in accordance with the approved Closure Plan and as shown on drwg. 90105-EP with a final elevation of 368. feet A.M.S.L. and contoured as shown on the drawing.

### 7. REPORTS

An annual report in accordance with 6 NYCRR 360-7.5(b) must be submitted to the department's central office and regional office no later than 60 days after the first day of January each year.

DEC PERMIT NUMBER  
5-0946-00025/00006

*Robert P. Forester*

FACILITY ID NUMBER  
10D01

PROGRAM NUMBER

Page 3 of 3

### **D.3 CONCRETE AND DEBRIS REMOVAL**

## TRANSPORTATION AND DISPOSAL DOCUMENTATION

### CONCRETE AND DEBRIS REMOVAL PLATTSBURGH AFB – D.O. 003 BULK FUEL STORAGE AREA – AIRCRAFT REFUEL SYSTEM

| TICKET# | DATE     | SOURCE      | TYPE     | VOLUME (CY) | TOTAL VOLUME (CY) |
|---------|----------|-------------|----------|-------------|-------------------|
| 21030   | 05/03/96 | Bulkstorage | concrete | 30          | 30                |
| 21031   | 05/03/96 | Bulkstorage | concrete | 30          | 60                |
| 21032   | 05/03/96 | Bulkstorage | concrete | 30          | 90                |
| 21025   | 05/03/96 | Bulkstorage | concrete | 30          | 120               |
| 21027   | 05/03/96 | Bulkstorage | concrete | 30          | 150               |
| 21026   | 05/03/96 | Bulkstorage | concrete | 30          | 180               |
| 21034   | 05/06/96 | Bulkstorage | concrete | 30          | 210               |
| 21357   | 05/07/96 | Bulkstorage | concrete | 30          | 240               |
| 21365   | 05/09/96 | Bulkstorage | concrete | 30          | 270               |
| 21087   | 06/13/96 | Bulkstorage | concrete | 30          | 300               |
| 21093   | 06/14/96 | Bulkstorage | concrete | 30          | 330               |
| 21095   | 06/14/96 | Bulkstorage | wood     | 30          | 360               |
| 21094   | 06/14/96 | Bulkstorage | wood     | 30          | 390               |
| 21103   | 06/17/96 | Bulkstorage | wood     | 30          | 420               |
| 11835   | 06/19/96 | Bulkstorage | concrete | 30          | 450               |
| 23574   | 06/20/96 | Bulkstorage | concrete | 30          | 480               |
| 23575   | 06/20/96 | Bulkstorage | concrete | 30          | 510               |
| 23576   | 06/20/96 | Bulkstorage | concrete | 30          | 540               |
| 23577   | 06/20/96 | Bulkstorage | concrete | 30          | 570               |
| 23578   | 06/20/96 | Bulkstorage | concrete | 30          | 600               |
| 23579   | 06/20/96 | Bulkstorage | concrete | 30          | 630               |
| 20111   | 06/21/96 | Bulkstorage | concrete | 30          | 660               |
| 20112   | 06/21/96 | Bulkstorage | concrete | 30          | 690               |
| 20113   | 06/21/96 | Bulkstorage | concrete | 30          | 720               |
| 20114   | 06/21/96 | Bulkstorage | concrete | 30          | 750               |
| 20115   | 06/21/96 | Bulkstorage | concrete | 30          | 780               |
| 20116   | 06/21/96 | Bulkstorage | concrete | 30          | 810               |
| 20117   | 06/21/96 | Bulkstorage | concrete | 30          | 840               |
| 23509   | 06/21/96 | Bulkstorage | wood     | 30          | 870               |
| 23510   | 06/21/96 | Bulkstorage | wood     | 30          | 900               |
| 23511   | 06/21/96 | Bulkstorage | wood     | 30          | 930               |
| 23512   | 06/21/96 | Bulkstorage | wood     | 30          | 960               |
| 23513   | 06/21/96 | Bulkstorage | wood     | 30          | 990               |
| 23514   | 06/21/96 | Bulkstorag  | wood     | 30          | 1020              |
| 20118   | 06/24/96 | Bulkstorag  | concrete | 30          | 1050              |
| 20119   | 06/24/96 | Bulkstorage | concrete | 30          | 1080              |
| 20120   | 06/24/96 | Bulkstorage | concrete | 30          | 1110              |
| 20121   | 06/24/96 | Bulkstorage | concrete | 30          | 1140              |
| 20122   | 06/24/96 | Bulkstorage | concrete | 30          | 1170              |





## TRANSPORTATION AND DISPOSAL DOCUMENTATION

CONCRETE AND DEBRIS REMOVAL  
PLATTSBURGH AFB - D.O. 003  
BULK FUEL STORAGE AREA - AIRCRAFT REFUEL SYSTEM

| TICKET# | DATE     | SOURCE      | TYPE     | VOLUME (CY) | TOTAL VOLUME (CY) |
|---------|----------|-------------|----------|-------------|-------------------|
| 20123   | 06/24/96 | Bulkstorage | concrete | 30          | 1200              |
| 20124   | 06/24/96 | Bulkstorage | concrete | 30          | 1230              |
| 20125   | 06/24/96 | Bulkstorage | concrete | 30          | 1260              |
| 20126   | 06/24/96 | Bulkstorage | concrete | 30          | 1290              |
| 23823   | 06/24/96 | Bulkstorage | concrete | 30          | 1320              |
| 23822   | 06/24/96 | Bulkstorage | concrete | 30          | 1350              |
| 23824   | 06/24/96 | Bulkstorage | concrete | 30          | 1380              |
| 23825   | 06/24/96 | Bulkstorage | concrete | 30          | 1410              |
| 23826   | 06/24/96 | Bulkstorage | concrete | 30          | 1440              |
| 23828   | 06/24/96 | Bulkstorage | concrete | 30          | 1470              |
| 23827   | 06/24/96 | Bulkstorage | concrete | 30          | 1500              |
| 20128   | 06/25/96 | Bulkstorage | concrete | 30          | 1530              |
| 20129   | 06/25/96 | Bulkstorage | concrete | 30          | 1560              |
| 20130   | 06/25/96 | Bulkstorage | concrete | 30          | 1590              |
| 20131   | 06/25/96 | Bulkstorage | concrete | 30          | 1620              |
| 20132   | 06/25/96 | Bulkstorage | concrete | 30          | 1650              |
| 20133   | 06/25/96 | Bulkstorage | concrete | 30          | 1680              |
| 20134   | 06/25/96 | Bulkstorage | concrete | 30          | 1710              |
| 23517   | 06/25/96 | Bulkstorage | concrete | 30          | 1740              |
| 23518   | 06/25/96 | Bulkstorage | concrete | 30          | 1770              |
| 23519   | 06/25/96 | Bulkstorage | concrete | 30          | 1800              |
| 23520   | 06/25/96 | Bulkstorage | concrete | 30          | 1830              |
| 23521   | 06/25/96 | Bulkstorage | concrete | 30          | 1860              |
| 23522   | 06/25/96 | Bulkstorage | concrete | 30          | 1890              |
| 23523   | 06/25/96 | Bulkstorage | concrete | 30          | 1920              |
| 20135   | 06/25/96 | Bulkstorage | concrete | 30          | 1950              |
| 23841   | 06/28/96 | Bulkstorage | concrete | 30          | 1980              |
| 23560   | 07/16/96 | Bulkstorage | concrete | 30          | 2010              |
| 23559   | 07/16/96 | Bulkstorage | concrete | 30          | 2040              |
| 23644   | 07/16/96 | Bulkstorage | concrete | 30          | 2070              |
| 23562   | 07/16/96 | Bulkstorage | concrete | 30          | 2100              |
| 23895   | 07/18/96 | Bulkstorag  | concrete | 30          | 2130              |
| 23657   | 07/22/96 | Bulkstorage | asphalt  | 30          | 2190              |
| 23659   | 07/22/96 | Bulkstorage | concrete | 30          | 2220              |
| 23660   | 07/22/96 | Bulkstorage | concrete | 30          | 2250              |
| 23661   | 07/22/96 | Bulkstorage | concrete | 30          | 2280              |
| 23662   | 07/22/96 | Bulkstorage | concrete | 30          | 2310              |



## TRANSPORTATION AND DISPOSAL DOCUMENTATION

CONCRETE AND DEBRIS REMOVAL  
PLATTSBURGH AFB - D.O. 003  
BULK FUEL STORAGE AREA - AIRCRAFT REFUEL SYSTEM

| TICKET# | DATE     | SOURCE      | TYPE     | VOLUME (CY) | TOTAL VOLUME (CY) |
|---------|----------|-------------|----------|-------------|-------------------|
| 11868   | 07/23/96 | Bulkstorage | concrete | 30          | 2310              |
| 11869   | 07/23/96 | Bulkstorage | concrete | 30          | 2340              |
| 11870   | 07/23/96 | Bulkstorage | concrete | 30          | 2370              |
| 11871   | 07/23/96 | Bulkstorage | concrete | 30          | 2400              |
| 23664   | 07/24/96 | Bulkstorage | concrete | 30          | 2430              |
| 23668   | 07/25/96 | Bulkstorage | concrete | 30          | 2460              |
| 23672   | 07/26/96 | Bulkstorage | concrete | 30          | 2490              |
| 23673   | 07/26/96 | Bulkstorage | concrete | 30          | 2520              |
| 23674   | 7/26/96/ | Bulkstorage | concrete | 30          | 2550              |
| 23675   | 07/26/96 | Bulkstorage | concrete | 30          | 2580              |
| 23676   | 07/26/96 | Bulkstorage | concrete | 30          | 2610              |
| 23677   | 07/26/96 | Bulkstorage | concrete | 30          | 2640              |
| 23678   | 07/26/96 | Bulkstorage | concrete | 30          | 2670              |
| 23679   | 07/26/96 | Bulkstorage | concrete | 30          | 2700              |
| 23681   | 07/29/96 | Bulkstorage | concrete | 30          | 2730              |
| 23682   | 07/29/96 | Bulkstorage | concrete | 30          | 2760              |
| 23683   | 07/29/96 | Bulkstorage | concrete | 30          | 2790              |
| 23684   | 07/29/96 | Bulkstorage | concrete | 30          | 2820              |
| 23685   | 07/29/96 | Bulkstorage | concrete | 30          | 2850              |
| 23687   | 07/30/96 | Bulkstorage | concrete | 30          | 2880              |
| 23688   | 07/30/96 | Bulkstorage | concrete | 30          | 2910              |
| 23692   | 07/31/96 | Bulkstorage | concrete | 30          | 2940              |
| 23693   | 07/31/96 | Bulkstorage | concrete | 30          | 2970              |
| 23694   | 07/31/96 | Bulkstorage | concrete | 30          | 3000              |
| 23695   | 07/31/96 | Bulkstorage | concrete | 30          | 3030              |
| 23696   | 07/31/96 | Bulkstorage | concrete | 30          | 3060              |
| 23697   | 07/31/96 | Bulkstorage | concrete | 30          | 3090              |
| 23698   | 07/31/96 | Bulkstorage | concrete | 30          | 3120              |
| 23699   | 07/31/96 | Bulkstorage | concrete | 30          | 3150              |
| 23702   | 08/01/96 | Bulkstorage | concrete | 30          | 3180              |
| 23703   | 08/01/96 | Bulkstorage | concrete | 30          | 3210              |
| 23704   | 08/01/96 | Bulkstorage | concrete | 30          | 3240              |
| 23705   | 08/01/96 | Bulkstorage | concrete | 30          | 3270              |
| 23706   | 08/01/96 | Bulkstorage | concrete | 30          | 3300              |
| 23707   | 08/01/96 | Bulkstorage | concrete | 30          | 3330              |
| 23708   | 08/01/96 | Bulkstorage | concrete | 30          | 3360              |
| 23709   | 08/01/96 | Bulkstorage | concrete | 30          | 3390              |
| 23710   | 08/01/96 | Bulkstorage | concrete | 30          | 3420              |
| 24829   | 08/02/96 | Bulkstorage | concrete | 30          | 3450              |

**TRANSPORTATION AND DISPOSAL DOCUMENTATION****CONCRETE AND DEBRIS REMOVAL  
PLATTSBURGH AFB - D.O. 003  
BULK FUEL STORAGE AREA - AIRCRAFT REFUEL SYSTEM**

| TICKET# | DATE     | SOURCE      | TYPE     | VOLUME (CY) | TOTAL VOLUME (CY) |
|---------|----------|-------------|----------|-------------|-------------------|
| 24828   | 08/02/96 | Bulkstorage | concrete | 30          | 3480              |
| 24827   | 08/02/96 | Bulkstorage | concrete | 30          | 3510              |
| 24826   | 08/02/96 | Bulkstorage | concrete | 30          | 3540              |
| 24826   | 08/02/96 | Bulkstorage | concrete | 30          | 3570              |
| 24825   | 08/02/96 | Bulkstorage | concrete | 30          | 3600              |
| 23713   | 08/02/96 | Bulkstorage | concrete | 30          | 3630              |
| 24835   | 08/05/96 | Bulkstorage | concrete | 30          | 3660              |
| 24836   | 08/05/96 | Bulkstorage | concrete | 30          | 3690              |
| 24834   | 08/05/96 | Bulkstorage | concrete | 30          | 3720              |
| 24833   | 08/05/96 | Bulkstorage | concrete | 30          | 3750              |
| 24832   | 08/05/96 | Bulkstorage | concrete | 30          | 3780              |
| 24831   | 08/05/96 | Bulkstorage | concrete | 30          | 3810              |
| 24839   | 08/06/96 | Bulkstorage | concrete | 30          | 3840              |
| 24840   | 08/06/96 | Bulkstorage | concrete | 30          | 3870              |
| 24841   | 08/06/96 | Bulkstorage | concrete | 30          | 3900              |
| 24842   | 08/06/96 | Bulkstorage | concrete | 30          | 3930              |
| 24843   | 08/06/96 | Bulkstorage | concrete | 30          | 3960              |
| 24858   | 08/07/96 | Bulkstorage | concrete | 30          | 3990              |
| 24862   | 08/08/96 | Bulkstorage | Trash    | 30          | 4020              |

#### **D.4 SCRAP STEEL REMOVAL**

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**TRANSPORTATION AND DISPOSAL DOCUMENTATION**

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**SCRAP STEEL REMOVAL  
PLATTSBURGH AFB – D.O. 003  
BULK FUEL STORAGE AREA – AIRCRAFT REFUEL SYSTEM**

| TICKET<br>NUMBER | DATE     | NET WT<br>(LBS) | TARE WT<br>(LBS) | GROSS WT<br>(LBS) | US TONS | CUMMULATIVE<br>TONS |
|------------------|----------|-----------------|------------------|-------------------|---------|---------------------|
| 101              | 07/01/96 | 11280           | 41290            | 52570             | 5.64    | 5.64                |
| 102              | 07/01/96 | 7630            | 41440            | 49070             | 3.815   | 9.455               |
| 103              | 07/01/96 | 31270           | 40970            | 72240             | 15.635  | 25.09               |
| 104              | 07/02/96 | 8440            | 42160            | 50600             | 4.22    | 29.31               |
| 105              | 07/18/96 | 47620           | 31780            | 79400             | 23.81   | 53.12               |

## **D.5 RAILROAD TIE REMOVAL**

## *TRANSPORTATION AND DISPOSAL DOCUMENTATION*

**RAILROAD TIE REMOVAL  
PLATTSBURGH AFB – D.O. 003  
BULK FUEL STORAGE AREA – AIRCRAFT REFUEL SYSTEM**

| TICKET # | DATE     | TYPE   | VOLUME (CY) | TOTAL VOLUME (CY) |
|----------|----------|--------|-------------|-------------------|
| 23930    | 07/18/96 | RR TIE | 30          | 30                |
| 23933    | 07/19/96 | RR TIE | 30          | 60                |
| 23932    | 07/19/96 | RR TIE | 30          | 90                |
| 11864    | 07/19/96 | RR TIE | 30          | 120               |
| 11865    | 07/19/96 | RR TIE | 30          | 150               |

Note: A composite sample of the railroad ties was collected for disposal analysis. The analytical results are attached.



# DATA SUMMARY REPORT

DATE: 06/26/96

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: RR-01  
ASC Sample Number: JP9859  
Sample Date: 960619  
Facility Code: 017257A

| Parameters | Units |
|------------|-------|
|------------|-------|

## CV10 Wet Chemistry

|               |   |      |
|---------------|---|------|
| Solids, Total | % | 41.1 |
|---------------|---|------|

Sample Point ID: RR-01  
ASC Sample Number: JP9859  
Sample Date: 960619  
Facility Code: 017257A

| Parameters | Units |
|------------|-------|
|------------|-------|

## MS52 GCMS TCLP Leachate BNA

|                     |      |       |
|---------------------|------|-------|
| 2,4-Dinitrotoluene  | mg/L | <.100 |
| Hexachlorobenzene   | mg/L | <.100 |
| Hexachloroethane    | mg/L | <.100 |
| Hexachlorobutadiene | mg/L | <.100 |
| 2-Methylphenol      | mg/L | <.100 |

|                       |      |                    |
|-----------------------|------|--------------------|
| 4-Methylphenol        | mg/L | <.100              |
| Nitrobenzene          | mg/L | <.100              |
| Pentachlorophenol     | mg/L | <.200              |
| Pyridine              | mg/L | <.100              |
| 2,4,5-Trichlorophenol | mg/L | <.100              |
| 2,4,6-Trichlorophenol | mg/L | <.100 <sup>2</sup> |

# CHAIN-OF-CUSTODY RECORD

LP 42698

172225

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

| PROJECT NAME<br><b>PAFB</b> |                                        | PROJECT LOCATION<br><b>Plattsburgh, NY</b>      |      | ANALYSIS DESIRED<br>(INDICATE SEPARATE CONTAINERS)<br><i>TCLP (comp) (resol)</i> |      |                                                            |                      |         |
|-----------------------------|----------------------------------------|-------------------------------------------------|------|----------------------------------------------------------------------------------|------|------------------------------------------------------------|----------------------|---------|
| PROJ. NO.<br><b>17257</b>   | PROJECT CONTACT<br><b>Greg Guimond</b> | PROJECT TELEPHONE NO.<br><b>(518) 562-3423</b>  |      |                                                                                  |      |                                                            |                      |         |
| CLIENT'S REPRESENTATIVE     |                                        | PROJECT MANAGER/SUPERVISOR<br><b>Mo Carrier</b> |      |                                                                                  |      |                                                            |                      |         |
|                             |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| ITEM NO.                    | SAMPLE NUMBER                          | DATE                                            | TIME | COMP                                                                             | GRAB | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND POINT OF SAMPLE) | NUMBER OF CONTAINERS | REMARKS |
| 1                           | RR-01                                  | 6-19<br>96                                      | 1330 | X                                                                                |      | Rail Road Ties (crushed)                                   | 1x12                 |         |
| 2                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 3                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 4                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 5                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 6                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 7                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 8                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 9                           |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |
| 10                          |                                        |                                                 |      |                                                                                  |      |                                                            |                      |         |

| TRANSFER NUMBER | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY          | DATE       | TIME  | REMARKS                           |
|-----------------|-------------|---------------------------|--------------------------------|------------|-------|-----------------------------------|
| 1               | 1           | Matthew Jones             | Fed Ex Airbill #<br>1362055656 | 6-20<br>96 | 1540  | - 5 day TAT<br>- Preserved at 4°C |
| 2               | 1           | Fedex 1362055656          | Pindy / Kameron                | 6/21       | 10:30 | - Temp. Blank included            |
| 3               |             |                           |                                |            |       |                                   |
| 4               |             |                           |                                |            |       |                                   |

SAMPLER'S SIGNATURE

*Matthew Jones*

temp 7°C H

## **D.6 CONTAMINATED SOIL REMOVAL**



## TRANSPORTATION AND DISPOSAL DOCUMENTATION

### CONTAMINATED SOIL REMOVAL PLATTSBURGH AFB - D.O. 003 BULK FUEL STORAGE AREA - AIRCRAFT REFUEL SYSTEM

| TICKET<br>NUMBER | DATE     | SOURCE           | VOLUME<br>(CY) | CUMULATIVE VOLUME<br>(CY) |
|------------------|----------|------------------|----------------|---------------------------|
| 1537             | 07/18/96 | AST PIPE REMOVAL | 180            | 180                       |
| 1536             | 07/18/96 | AST PIPE REMOVAL | 142            | 322                       |
| 1456             | 07/19/96 | AST PIPE REMOVAL | 108            | 430                       |
| 1457             | 07/19/96 | AST PIPE REMOVAL | 72             | 502                       |
| 1556             | 07/22/96 | AST PIPE REMOVAL | 126            | 628                       |
| 1557             | 07/22/96 | AST PIPE REMOVAL | 108            | 736                       |
| 1459             | 07/23/96 | AST PIPE REMOVAL | 108            | 844                       |
| 1460             | 07/23/96 | AST PIPE REMOVAL | 108            | 952                       |
|                  |          |                  | Total          | 952                       |

|      |          |                |       |     |
|------|----------|----------------|-------|-----|
| 1465 | 08/08/96 | PT DOUGLAS OWS | 160   | 160 |
| 1464 | 08/08/96 | PT DOUGLAS OWS | 128   | 288 |
| 1467 | 08/09/96 | PT DOUGLAS OWS | 96    | 384 |
| 1466 | 08/09/96 | PT DOUGLAS OWS | 112   | 496 |
| 1543 | 08/13/96 | PT DOUGLAS OWS | 256   | 752 |
|      |          |                | Total | 752 |

|      |          |          |       |     |
|------|----------|----------|-------|-----|
| 1482 | 08/27/96 | BFSA OWS | 176   | 176 |
| 1480 | 08/27/96 | BFSA OWS | 176   | 352 |
| 1483 | 08/28/96 | BFSA OWS | 64    | 416 |
|      |          |          | Total | 416 |

***APPENDIX E***  
***IMPORTED BORROW SAMPLING & ANALYSIS***  
***SUMMARY***

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**OHM Remediation  
Services Corp.**

A Subsidiary of OHM Corporation

February 11, 1997

Mr. Joseph Szot, AFCEE Field Engineer  
AFCEE/DAP  
426 US Oval, Suite 2210  
Plattsburgh, NY 12903

RE: Contract No. F41624-94-D-8106  
Delivery Order No. 0006  
Plattsburgh Air Force Base, New York  
Summary of Backfill Material Sources

Dear Joe:

As requested on 02/07/97, a summary of the sampling events at the different backfill material sources has been compiled. There have been a total of four sand pits that were sampled during remediation activities for Delivery Orders 003 and 006. Each pit was a potential source of backfill material for various excavations throughout the Base. The pits were sampled and analyzed for full TCLP analyses to ensure that the backfill material could be classified as non-hazardous. None of the analyses revealed compounds at concentrations that would characterize any of the samples as hazardous material.

The four sand pits that were sampled are: Joe Ormsby's Lapham Mills Road Pit (Peru, NY), Joe Ormsby's Christian Pit (Peru, NY), Barry White's Shingle Street Pit (Schuyler Falls, NY) and Plattsburgh Quarry's Ad Cock Pit (Morrisonville, NY). The sampling activities at these various sand pits are summarized below:

- 11/29/95: A composite sample (CF-001) was collected from Ormsby's Lapham Mills Road Sand Pit. The analysis results are included in the Sampling & Analysis Report dated 12/05/95.
- 06/04/96: A composite sample (CF-002A) was collected from Ormsby's Lapham Mills Road Sand Pit. The analysis results are included in the Sampling & Analysis Report dated 06/10/96.
- 06/25/96: A composite sample (ADCOCKPIT-01) was collected from Plattsburgh Quarry's Ad Cock Pit. The sample was analyzed but this pit was never used as a backfill material source due to accounting problems.
- 07/19/96: A composite sample (CF-719) was collected from Ormsby's Lapham Mills Road Sand Pit. The analysis results are included in the Sampling & Analysis Report dated 07/30/96.

- 07/24/96: Composite samples (SCF-1 and SCF-2) were collected from Barry White's Shingle Street Sand Pit. Only the sample SCF-1 was analyzed because the sand pit was not used as a backfill source, at this time, due to a contractual problem. The results for the analysis are included in the Sampling & Analysis Report dated 07/31/96.
- 07/25/96: A composite sample (CF-1) was collected from Ormsby's Christian Pit. The analysis results are included in the Sampling & Analysis Report dated 08/01/96. This pit was scheduled to be used as the new backfill material source but was never used.
- 08/13/96: A composite sample (CF-813) was collected from Ormsby's Lapham Mills Road Sand Pit. The analysis results are included in the Sampling & Analysis Report dated 08/23/96.
- 10/10/96: A composite sample (CF-1010) was collected from Ormsby's Lapham Mills Road Sand Pit. The analysis results are included in the Sampling & Analysis Report dated 10/31/96.
- 11/20/96: A composite sample (CF-1120) was collected from Ormsby's Lapham Mills Road Sand Pit. The analysis results are included in the Sampling & Analysis Report dated 12/03/96.
- 01/14/97: A composite sample (CP-01-14-97) was collected from Ormsby's Christian Pit. This pit was Ormsby's new source of backfill material but the pit was not used because Ormsby's contract had expired and a new vendor was chosen. The analysis results are included in the Sampling & Analysis Report dated 02/11/97.
- 01/28/97: A composite sample (CF-0128) was collected from Barry White's Shingle Street Sand Pit. OHM personnel did not note any substantial change in the sand pit configuration since the 07/25/96 sampling event. The analysis results are included in the Sampling & Analysis Report dated 02/06/97.

The backfill material is currently taken from Barry White's Shingle Street Sand Pit. An additional sample will need to be collected from this pit to complete the backfilling operations at Spill Site 10. I have prepared a report for the 01/14/97 sampling event at Ormsby's Christian Pit for your records. This sand pit has not been used to this date, but the analytical data may be useful if Mr. Ormsby is awarded a new contract in the future. Please let me know if there is any other information that you may need in regards to the backfill material sampling activities.

Sincerely,



Gregory Guimond  
Sr. Technologist

cc: M. Cormier, OHM  
B. Coats, OHM  
Project File



**Sampling & Analysis Site Report  
On-Site Laboratory  
Plattsburgh AFB - Project #17499**

Site: Ormsby's Christian Pit, Peru, NY

Date: 02/07/96

Sample Collection:

-A composite sample (CP-01-14-97) was collected from Ormsby's Christian Pit in Peru, NY on 01/14/97. The sand from the pit was scheduled to be used as backfill material at the Spill Site 10 excavations and the remaining Delivery Order 006 excavations. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

-Mr. Ormsby's contract had expired after the sample was shipped to the off-site laboratory and analysis was performed. The new contract was awarded to a different vendor.

Off-Site Analysis:

-The sample CP-01-14-97 was shipped to Premier Laboratory, LLC in Brooklyn, CT for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.



# Premier Laboratory, LLC.

Route 205 - Regional Building  
Brooklyn, CT 06234  
Telephone: 860-774-6814 Fax: 860-774-2689

## ANALYTICAL DATA REPORT

Report Number: E701155  
Project: Plattsburgh Air Force Base

prepared for:

OHM Remediation Services  
P.O. Box 2202  
Plattsburgh, NY 12901

Attn: Greg Guimond

Receive Date: 01/15/97  
Report Date: 01/22/97

Robert Laferriere  
General Manager

Connecticut Department of Health Services PH-0465  
Maine Department of Environmental Protection TBD  
Massachusetts Department of Environmental Quality CT008  
New Hampshire Department of Environmental Services 2020  
New York Department of Health 11549  
Rhode Island Department of Health A44 0022

# METALS ANALYSIS DATA SHEET

Laboratory: Premier Laboratory, LLC.

Client: OHM Remediation Services Corp.

PL Order No: E701155

Location: Plattsburgh, NY

PL Sample No: 1

Project: Plattsburgh Air Force Base

Sample Description: CP-01-14-97

Date Collected: 01/14/97

Matrix: Soil

Date Received: 01/15/97

Percent Moisture: 8.6%

| Parameter                                         | Result    | QL      | Units | Started<br>Date | By | Completed<br>Date | By | Dilution |
|---------------------------------------------------|-----------|---------|-------|-----------------|----|-------------------|----|----------|
| <u>Mercury by Cold Vapor by SW-846 7470. TCLP</u> |           |         |       |                 |    |                   |    |          |
| Mercury                                           | 0.00027 U | 0.00027 | mg/L  | 01/17/97        | BS | 01/21/97          | MM |          |
| <u>Metals by ICP by SW-846 6010A. TCLP</u>        |           |         |       |                 |    |                   |    |          |
| Silver                                            | 0.020 U   | 0.020   | mg/L  | 01/17/97        | BS | 01/20/97          | BS |          |
| Arsenic                                           | 0.50 U    | 0.50    | mg/L  | 01/17/97        | BS | 01/20/97          | BS |          |
| Barium                                            | 0.76      | 0.010   | mg/L  | 01/17/97        | BS | 01/20/97          | BS |          |
| Cadmium                                           | 0.018     | 0.010   | mg/L  | 01/17/97        | BS | 01/20/97          | BS |          |
| Chromium                                          | 0.024 U   | 0.024   | mg/L  | 01/17/97        | BS | 01/20/97          | BS |          |
| Lead                                              | 0.80      | 0.050   | mg/L  | 01/17/97        | BS | 01/20/97          | BS |          |
| Selenium                                          | 0.10 U    | 0.10    | mg/L  | 01/17/97        | BS | 01/20/97          | BS |          |

# VOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Premier Laboratory, LLC.

Customer: OHM Remediation Services Corp.

PL Report No: E701155

Location: Plattsburgh, NY

PL Sample No: 1

Project: Plattsburgh Air Force Base

Sample Description: CP-01-14-97

Date Collected: 01/14/97

Matrix: Soil

Date Received: 01/15/97

Percent Moisture: N/A

Date Extracted: By:

Sample Weight/Volume:

Date Analyzed: 01/16/97 By: WW

Dilution Factor: 10

Method: 8240, TCLP

Soil Extract Volume:

Level: LOW

Soil Aliquot Volume:

GC Column:

Lab Data File: C5984

Units: ug/L ( Wet Weight )

| CAS No.  | Parameter             | Result | Qual | QL  |
|----------|-----------------------|--------|------|-----|
| 71-43-2  | Benzene               | 50     | U    | 50  |
| 78-93-3  | 2-Butanone (MEK)      | 100    | U    | 100 |
| 56-23-5  | Carbon tetrachloride  | 50     | U    | 50  |
| 108-90-7 | Chlorobenzene         | 50     | U    | 50  |
| 67-66-3  | Chloroform            | 50     | U    | 50  |
| 106-46-7 | 1,4-Dichlorobenzene   | 50     | U    | 50  |
| 107-06-2 | 1,2-Dichloroethane    | 50     | U    | 50  |
| 75-35-4  | 1,1-Dichloroethene    | 50     | U    | 50  |
| 127-18-4 | Tetrachloroethene     | 50     | U    | 50  |
| 79-01-6  | Trichloroethene (TCE) | 50     | U    | 50  |
| 75-01-4  | Vinyl chloride        | 100    | U    | 100 |

# SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Premier Laboratory, LLC.

Customer: OHM Remediation Services Corp.

PL Report No: E701155

Location: Plattsburgh, NY

PL Sample No: 1

Project: Plattsburgh Air Force Base

Sample Description: CP-01-14-97

Date Collected: 01/14/97

Matrix: Soil

Date Received: 01/15/97

Percent Moisture: N/A

Date Extracted: 01/17/97 By: CDV

pH:

Date Analyzed: 01/20/97 By: KRB

Sample Weight/Volume: 50 mL

Extract Volume: 5

Method: 8150, TCLP

Injection Volume:

Level: LOW

Dilution Factor: 1

GC Column:

Lab Data File: 4012029

Units: ug/L ( Wet Weight )

| CAS No. | Parameter                              | Result | Qual | QL |
|---------|----------------------------------------|--------|------|----|
| 93-72-1 | 2,4,5-TP (Silvex)                      | 20     | U    | 20 |
| 94-75-7 | 2,4-D (2,4-Dichlorophenoxyacetic acid) | 20     | U    | 20 |

# SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Premier Laboratory, LLC.

Customer: OHM Remediation Services Corp.

PL Report No: E701155

Location: Plattsburgh, NY

PL Sample No: 1

Project: Plattsburgh Air Force Base

Sample Description: CP-01-14-97

Date Collected: 01/14/97

Matrix: Soil

Date Received: 01/15/97

Percent Moisture: N/A

Date Extracted: 01/17/97 By: CDV

pH:

Date Analyzed: 01/20/97 By: KRB

Sample Weight/Volume: 50 mL

Extract Volume: 2

Method: S080, TCLP

Injection Volume:

Level: LOW

Dilution Factor: 1

GC Column:

Lab Data File: 8012007

Units: ug/L ( Wet Weight )

| CAS No.   | Parameter           | Result | Qual | QL   |
|-----------|---------------------|--------|------|------|
| 59-89-9   | gamma-BHC (Lindane) | 0.20   | U    | 0.20 |
| 57-74-9   | Chlordane           | 0.40   | U    | 0.40 |
| 72-20-8   | Endrin              | 0.20   | U    | 0.20 |
| 76-44-8   | Heptachlor          | 0.40   | U    | 0.40 |
| 1024-57-3 | Heptachlor epoxide  | 0.40   | U    | 0.40 |
| 72-43-5   | Methoxychlor        | 0.20   | U    | 0.20 |
| 8001-35-2 | Toxaphene           | 10     | U    | 10   |

# SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Premier Laboratory, LLC.

Customer: OHM Remediation Services Corp.

PL Report No: E701155

Location: Plattsburgh, NY

PL Sample No: 1

Project: Plattsburgh Air Force Base

Sample Description: CP-01-14-97

Date Collected: 01/14/97

Matrix: Soil

Date Received: 01/15/97

Percent Moisture: N/A

Date Extracted: 01/17/97 By: CDV

pH:

Date Analyzed: 01/21/97 By: RAW

Sample Weight/Volume: 500 mL

Extract Volume: 1

Method: 8270, TCLP

Injection Volume:

Level: LOW

Dilution Factor:

GC Column:

Lab Data File: A00032

Units: ug/L ( Wet Weight )

| CAS No.  | Parameter             | Result | Qual | QL |
|----------|-----------------------|--------|------|----|
| 121-14-2 | 2,4-Dinitrotoluene    | 10     | U    | 10 |
| 118-74-1 | Hexachlorobenzene     | 10     | U    | 10 |
| 87-68-3  | Hexachlorobutadiene   | 10     | U    | 10 |
| 67-72-1  | Hexachloroethane      | 10     | U    | 10 |
| 95-48-7  | 2-Methylphenol        | 10     | U    | 10 |
| 98-95-3  | Nitrobenzene          | 10     | U    | 10 |
| 87-86-5  | Pentachlorophenol     | 10     | U    | 10 |
| 110-86-1 | Pyridine              | 20     | U    | 20 |
| 95-95-4  | 2,4,5-Trichlorophenol | 10     | U    | 10 |
| 88-06-2  | 2,4,6-Trichlorophenol | 10     | U    | 10 |
|          | 3- & 4-Methylphenols  | 10     | U    | 10 |



# CHAIN-OF-CUSTODY RECORD

4/4/97

Lab Results

172314

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

|                                                  |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------|---------------|---------------------------------------|-------|------|------------------------------------------------------|------------------------------------------------------------|--|--|--|----------------------------|----------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| PROJECT NAME<br><b>PLATTSBURGH AFB</b>           |               |                                       |       |      | PROJECT LOCATION<br><b>PLATTSBURGH AFB</b>           |                                                            |  |  |  | NUMBER<br>OF<br>CONTAINERS | ANALYSIS DESIRED<br>(INDICATE<br>SEPARATE<br>CONTAINERS) |  |  |  |  |  |  |  |  |  |  |
| PROJ. NO.<br><b>17257</b>                        |               | PROJECT CONTACT<br><b>GREG RUMORE</b> |       |      | PROJECT TELEPHONE NO.<br><b>518-569-2923</b>         |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| CLIENT'S REPRESENTATIVE<br><b>AFCOE / JOE CO</b> |               |                                       |       |      | PROJECT MANAGER/SUPERVISOR<br><b>KEVIN R. KIMMEL</b> |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| ITEM NO.                                         | SAMPLE NUMBER | DATE                                  | TIME  | COMP | GRAB                                                 | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND POINT OF SAMPLE) |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 1                                                | CP-01-14-97   | 4/4/97                                | 15:30 | X    |                                                      | SOIL FROM CHRISTIAN                                        |  |  |  |                            | 1                                                        |  |  |  |  |  |  |  |  |  |  |
| 2                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 3                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 4                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 5                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 6                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 7                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 8                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 9                                                |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |
| 10                                               |               |                                       |       |      |                                                      |                                                            |  |  |  |                            |                                                          |  |  |  |  |  |  |  |  |  |  |

| TRANSFER NUMBER | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE   | TIME | REMARKS                                   |
|-----------------|-------------|---------------------------|-----------------------|--------|------|-------------------------------------------|
| 1               | 1-1         | <i>[Signature]</i>        | <i>[Signature]</i>    | 4/4/97 |      | <i>[Handwritten Notes]</i>                |
| 2               |             |                           |                       |        |      |                                           |
| 3               |             |                           |                       |        |      |                                           |
| 4               |             |                           |                       | 4/5/97 |      | <i>[Signature]</i><br>SAMPLER'S SIGNATURE |

**Sample Collection Log**  
**Plattsburgh AFB - Project #17257**

Pg. 1 of 2

Date: 1/14/97

Site: Christian Pit

Weather:

Samplers: MB

| Sample ID   | Time | Matrix | Comp/ Grab | Sample Depth | Sample Description      | # of Bottles |
|-------------|------|--------|------------|--------------|-------------------------|--------------|
| CP-01-14-97 | 1530 | S      | C          | —            | Gold Sand from Backfill | 1x1L         |
|             |      |        |            |              | Source                  |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |
|             |      |        |            |              |                         |              |

Map Attached: Yes No

-Reference Points: Yes  
-Head Space Readings: Yes

No  
No

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis: VOCs SVOCs Other: Full TCLP

Split Sample Collected: Yes No

Laboratory Destination: Premier Lab COC # 172314 Airbill # 2821166040

Duplicate Sample: Yes No Equipment Rinsate Sample: Yes No

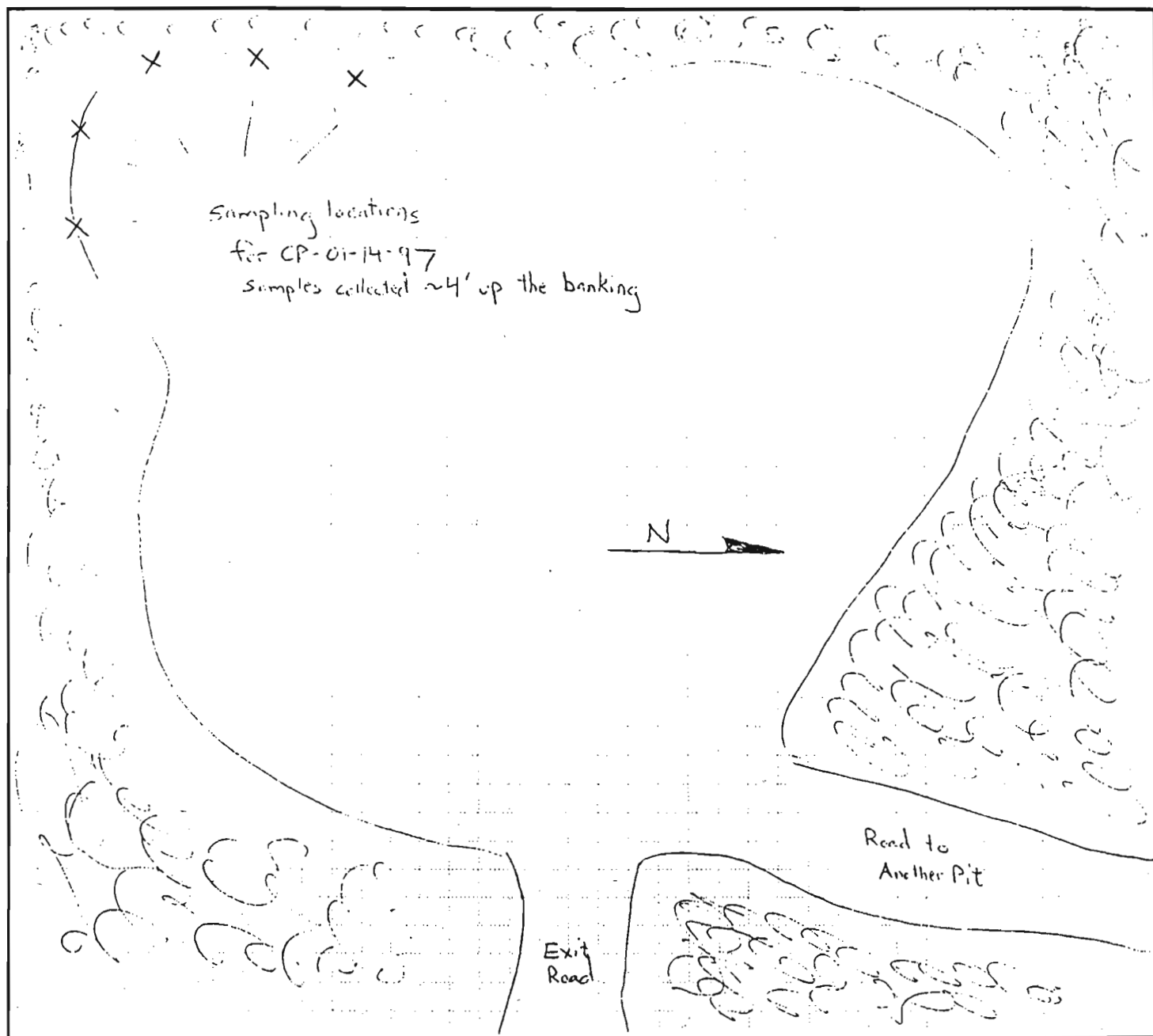
Comments: No visible signs of contamination were noted at the pit.

Site Map: Headspace / Confirmation Sampling  
Plattsburgh AFB - Project #17499

Site Name: Oimsby's Christian Pit

Date: 1/14/97


Prepared by: EE



Ref  
Points

N/A

Comments

- Not drawn to scale
- X denotes sampling locations for the composite sample
-  - vegetation

- The pit configuration has not changed dramatically since the 07/25/96 sampling event. A soil pile in the middle has been removed and some soil has been removed from the corner of the pit (where the sample was collected). There were no visible signs of contamination.

**Sampling & Analysis Site Report  
Plattsburgh AFB - Project #17499**

Site: Ormsby Sand Mine, Peru, NY

Date: 12/03/96

Sample Collection:

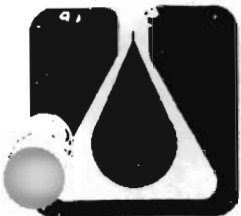
-A composite sample (CF-1120) was collected from the Ormsby Sand Mine in Peru, NY on 11/20/96. The sand from the mine is used for backfill material at many of the sites throughout the base. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

Off-Site Analysis:

-The sample CF-1120 was shipped to Laboratory Resources in Brooklyn, CT for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.



# Laboratory Resources, Inc.

New England Division

Route 205 - Regional Building

Brooklyn, CT 06234

Telephone: 203-774-6814 Fax: 203-774-2689

## ANALYTICAL DATA REPORT

Report Number: E611281

Project: Plattsburgh Air Force Base

prepared for:

OHM Remediation Services

P.O. Box 2202

Plattsburgh, NY 12901

Attn: Greg Guimond

Receive Date: 11/21/96

Report Date: 11/27/96

T.F. McCommas  
Laboratory Director

Connecticut Department of Health Services PH-0465

Maine Department of Environmental Protection TBD

Massachusetts Department of Environmental Quality CT008

New Hampshire Department of Environmental Services 2020

New York Department of Health 11549

Rhode Island Department of Health A44 0022

# METALS ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.  
 Division: New England  
 LRI Order No: E611281  
 LRI Sample No: 1

Client: OHM Remediation Services Corp.  
 Location: Plattsburgh, NY  
 Project: Plattsburgh Air Force Base  
 Sample Description: CF-1120

Date Collected: 11/20/96  
 Date Received: 11/21/96

Matrix: Soil  
 Percent Moisture: 5.1%

| Parameter                                         | Result    | QL      | Units | Started<br>Date | By | Completed<br>Date | By | Dilution |
|---------------------------------------------------|-----------|---------|-------|-----------------|----|-------------------|----|----------|
| <u>Mercury by Cold Vapor by SW-846 7470, TCLP</u> |           |         |       |                 |    |                   |    |          |
| Mercury                                           | 0.00027 U | 0.00027 | mg/L  | 11/22/96        | MM | 11/25/96          | MM |          |
| <u>Metals by ICP by SW-846 6010A, TCLP</u>        |           |         |       |                 |    |                   |    |          |
| Silver                                            | 0.020 U   | 0.020   | mg/L  | 11/22/96        | MM | 11/26/96          | BS |          |
| Arsenic                                           | 0.20 U    | 0.20    | mg/L  | 11/22/96        | MM | 11/26/96          | BS |          |
| Barium                                            | 0.63      | 0.020   | mg/L  | 11/22/96        | MM | 11/26/96          | BS |          |
| Cadmium                                           | 0.010 U   | 0.010   | mg/L  | 11/22/96        | MM | 11/26/96          | BS |          |
| Chromium                                          | 0.024 U   | 0.024   | mg/L  | 11/22/96        | MM | 11/26/96          | BS |          |
| Lead                                              | 0.050 U   | 0.050   | mg/L  | 11/22/96        | MM | 11/26/96          | BS |          |
| Selenium                                          | 0.10 U    | 0.10    | mg/L  | 11/22/96        | MM | 11/26/96          | BS |          |

# VOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.  
Division: New England  
LRI Report No: E611281  
LRI Sample No: 1

Customer: OHM Remediation Services Corp.  
Location: Plattsburgh, NY  
Project: Plattsburgh Air Force Base  
Sample Description: CF-1120

Date Collected: 11/20/96  
Date Received: 11/21/96  
Date Extracted: By:  
Date Analyzed: 11/25/96 By: WW

Matrix: Soil  
Percent Moisture: N/A  
Sample Weight/Volume:  
Dilution Factor: 10  
Soil Extract Volume:  
Soil Aliquot Volume:  
Lab Data File: C5450

Method: 8240, TCLP  
Level: LOW  
GC Column:  
Units: ug/L (Wet Weight)

| CAS No.  | Parameter             | Result | Qual | QL  |
|----------|-----------------------|--------|------|-----|
| 71-43-2  | Benzene               | 50     | U    | 50  |
| 78-93-3  | 2-Butanone (MEK)      | 100    | U    | 100 |
| 56-23-5  | Carbon tetrachloride  | 50     | U    | 50  |
| 108-90-7 | Chlorobenzene         | 50     | U    | 50  |
| 67-66-3  | Chloroform            | 50     | U    | 50  |
| 106-46-7 | 1,4-Dichlorobenzene   | 50     | U    | 50  |
| 107-06-2 | 1,2-Dichloroethane    | 50     | U    | 50  |
| 75-35-4  | 1,1-Dichloroethene    | 50     | U    | 50  |
| 127-18-4 | Tetrachloroethene     | 50     | U    | 50  |
| 79-01-6  | Trichloroethene (TCE) | 50     | U    | 50  |
| 75-01-4  | Vinyl chloride        | 100    | U    | 100 |



# SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.

Division: New England

LRI Report No: E611281

LRI Sample No: 1

Customer: OHM Remediation Services Corp.

Location: Plattsburgh, NY

Project: Plattsburgh Air Force Base

Sample Description: CF-1120

Date Collected: 11/20/96

Date Received: 11/21/96

Date Extracted: 11/22/96 By: DMH

Date Analyzed: 11/25/96 By: KRB

Method: 8150, TCLP

Level: LOW

GC Column:

Units: ug/L (Wet Weight)

Matrix: Soil

Percent Moisture: N/A

pH:

Sample Weight/Volume: 50 mL

Extract Volume: 5

Injection Volume:

Dilution Factor:

Lab Data File: 4112507

| CAS No. | Parameter                              | Result | Qual | QL  |
|---------|----------------------------------------|--------|------|-----|
| 93-72-1 | 2,4,5-TP (Silvex)                      | 2.0    | U    | 2.0 |
| 94-75-7 | 2,4-D (2,4-Dichlorophenoxyacetic acid) | 2.0    | U    | 2.0 |

# SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.  
 Division: New England  
 LRI Report No: E611281  
 LRI Sample No: 1

Customer: OHM Remediation Services Corp.  
 Location: Plattsburgh, NY  
 Project: Plattsburgh Air Force Base  
 Sample Description: CF-1120

Date Collected: 11/20/96  
 Date Received: 11/21/96  
 Date Extracted: 11/25/96 By: DMH  
 Date Analyzed: 11/25/96 By: KRB

Matrix: Soil  
 Percent Moisture: N/A  
 pH:  
 Sample Weight/Volume: 50 mL  
 Extract Volume: 2  
 Injection Volume:  
 Dilution Factor: 1  
 Lab Data File: 8112506

Method: 8080, TCLP  
 Level: LOW  
 GC Column:  
 Units: ug/L (Wet Weight)

| CAS No.   | Parameter           | Result | Qual | QL   |
|-----------|---------------------|--------|------|------|
| 59-89-9   | gamma-BHC (Lindane) | 0.20   | U    | 0.20 |
| 57-74-9   | Chlordane           | 0.40   | U    | 0.40 |
| 72-20-8   | Endrin              | 0.20   | U    | 0.20 |
| 76-44-8   | Heptachlor          | 0.40   | U    | 0.40 |
| 1024-57-3 | Heptachlor epoxide  | 0.40   | U    | 0.40 |
| 72-43-5   | Methoxychlor        | 0.20   | U    | 0.20 |
| 8001-35-2 | Toxaphene           | 10     | U    | 10   |

# SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Laboratory: Laboratory Resources, Inc.  
 Division: New England  
 LRI Report No: E611281  
 LRI Sample No: 1

Customer: OHM Remediation Services Corp.  
 Location: Plattsburgh, NY  
 Project: Plattsburgh Air Force Base  
 Sample Description: CF-1120

Date Collected: 11/20/96  
 Date Received: 11/21/96  
 Date Extracted: 11/22/96 By: DMH  
 Date Analyzed: 11/25/96 By: RAW

Matrix: Soil  
 Percent Moisture: N/A  
 pH:  
 Sample Weight/Volume: 500 mL  
 Extract Volume: 1  
 Injection Volume:  
 Dilution Factor:  
 Lab Data File: E02713

Method: 8270, TCLP  
 Level: LOW  
 GC Column:  
 Units: ug/L (Wet Weight)

| CAS No.  | Parameter             | Result | Qual | QL |
|----------|-----------------------|--------|------|----|
| 121-14-2 | 2,4-Dinitrotoluene    | 10     | U    | 10 |
| 118-74-1 | Hexachlorobenzene     | 10     | U    | 10 |
| 87-68-3  | Hexachlorobutadiene   | 10     | U    | 10 |
| 67-72-1  | Hexachloroethane      | 10     | U    | 10 |
| 95-48-7  | 2-Methylphenol        | 10     | U    | 10 |
| 98-95-3  | Nitrobenzene          | 10     | U    | 10 |
| 87-86-5  | Pentachlorophenol     | 10     | U    | 10 |
| 110-86-1 | Pyridine              | 20     | U    | 20 |
| 95-95-4  | 2,4,5-Trichlorophenol | 10     | U    | 10 |
| 88-06-2  | 2,4,6-Trichlorophenol | 10     | U    | 10 |
|          | 3- & 4-Methylphenols  | 10     | U    | 10 |

**HAZARDOUS WASTE REGULATORY LEVELS  
FOR TOXICITY CHARACTERISTIC**

| CONSTITUENT                  | REGULATORY<br>LEVEL (mg/L) |
|------------------------------|----------------------------|
| Arsenic                      | 5.0                        |
| Barium                       | 100.0                      |
| Benzene                      | 0.5*                       |
| Cadmium                      | 1.0                        |
| Carbon tetrachloride         | 0.5*                       |
| Chlordane                    | 0.03*                      |
| Chlorobenzene                | 100.0*                     |
| Chloroform                   | 6.0*                       |
| Chromium                     | 5.0                        |
| o-Cresol                     | 200.0*                     |
| m-Cresol                     | 200.0*                     |
| Cresol (Total)               | 200.0*                     |
| 2,4-D                        | 10.0                       |
| 1,4-Dichlorobenzene          | 7.5*                       |
| 1,2-Dichloroethane           | 0.5*                       |
| 1,1-Dichloroethylene         | 0.7*                       |
| 2,4-Dinitrotoluene           | 0.13*                      |
| Endrin                       | 0.02                       |
| Heptachlor (and its epoxide) | 0.008*                     |
| Hexachlorobenzene            | 0.13*                      |
| Hexachloro-1,3butadiene      | 0.5*                       |
| Hexachloroethane             | 3.0*                       |
| Lead                         | 5.0                        |
| Lindane                      | 0.4                        |

| CONSTITUENT           | REGULATORY<br>LEVEL (mg/L) |
|-----------------------|----------------------------|
| Mercury               | 0.2                        |
| Methoxychlor          | 10.0                       |
| Methyl ethyl ketone   | 200.0*                     |
| Nitrobenzene          | 2.0*                       |
| Pentachlorophenol     | 100.0*                     |
| Pyridine              | 5.0*                       |
| Selenium              | 1.0                        |
| Silver                | 5.0                        |
| Tetrachloroethylene   | 0.7*                       |
| Toxaphene             | 0.5                        |
| Trichloroethylene     | 0.5*                       |
| 2,4,5-Trichlorophenol | 400.0*                     |
| 2,4,6-Trichlorophenol | 2.0*                       |
| 2,4,5-TP (Silvex)     | 1.0                        |
| Vinyl chloride        | 0.2*                       |

\* New Toxicity Characteristics Effective 9/25/90

# CHAIN-OF-CUSTODY RECORD

E61128  
 Lab Resources  
 Field Technical Services  
 Form 0019  
 Rev. 08/89  
 TRANSFER 2  
 164215  
 PO# 1030137

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

|                                         |                                        |                                                            |      |                                                    |      |                                  |
|-----------------------------------------|----------------------------------------|------------------------------------------------------------|------|----------------------------------------------------|------|----------------------------------|
| PROJECT NAME<br><b>PAFB</b>             |                                        | PROJECT LOCATION<br><b>Plattsburgh, NY</b>                 |      | ANALYSIS DESIRED<br>(INDICATE SEPARATE CONTAINERS) |      |                                  |
| PROJ. NO. <b>172574</b>                 | PROJECT CONTACT<br><b>Greg Guimond</b> | PROJECT TELEPHONE NO.<br><b>(518) 562-3923</b>             |      |                                                    |      |                                  |
| CLIENT'S REPRESENTATIVE<br><b>AFCEE</b> |                                        | PROJECT MANAGER/SUPERVISOR<br><b>Ken Kukkonen</b>          |      |                                                    |      |                                  |
| ITEM NO.                                |                                        | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND POINT OF SAMPLE) |      |                                                    |      |                                  |
|                                         | SAMPLE NUMBER                          | DATE                                                       | TIME | COMP                                               | GRAB | REMARKS                          |
| 1                                       | CF-1120                                | 11/20/96                                                   | 1525 | X                                                  |      | Backfill source sample Gold Sand |
| 2                                       |                                        |                                                            |      |                                                    |      |                                  |
| 3                                       |                                        |                                                            |      |                                                    |      |                                  |
| 4                                       |                                        |                                                            |      |                                                    |      |                                  |
| 5                                       |                                        |                                                            |      |                                                    |      |                                  |
| 6                                       |                                        |                                                            |      |                                                    |      |                                  |
| 7                                       |                                        |                                                            |      |                                                    |      |                                  |
| 8                                       |                                        |                                                            |      |                                                    |      |                                  |
| 9                                       |                                        |                                                            |      |                                                    |      |                                  |
| 10                                      |                                        |                                                            |      |                                                    |      |                                  |

|                 |             |                           |                                     |          |      |                                                                                                           |
|-----------------|-------------|---------------------------|-------------------------------------|----------|------|-----------------------------------------------------------------------------------------------------------|
| TRANSFER NUMBER | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY               | DATE     | TIME | REMARKS                                                                                                   |
| 1               | 1           | <i>A. Kukkonen</i>        | <i>Fed Ex A/C Bill # 1243410420</i> | 11/20/96 | 1600 | Preserved @ 4°C. Temp blank included<br>O&M Minimum Level Data Package<br>5 day TAT Please return cooler. |
| 2               | 1           | <b>FED X</b>              | <i>[Signature]</i>                  | 11/21    |      |                                                                                                           |
| 3               |             |                           |                                     |          |      |                                                                                                           |
| 4               |             |                           |                                     |          |      |                                                                                                           |

SAMPLER'S SIGNATURE *Greg Guimond*

Soil Sample Collection Log  
Plattsburgh AFB - Project # 17257(17499)

Date: 11/20/96

Site: Ormsby Sand Mine, Peru

Pg. 1 of 3

Weather: Cloudy, ~25°F

Samplers: GG

| Sample ID | Time | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates Ref. Pt. | Coordinates Ref. Pt. | Sample Description  | # of Bottles |
|-----------|------|------------|------------|-------------------|----------------------|----------------------|---------------------|--------------|
| CF-1120   | 1525 | -          | C          | 4' up banking     | /                    | /                    | gold sand composite | 1x1L         |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |
|           |      |            |            |                   |                      |                      |                     |              |

Map Attached: ☒ Yes ☐ No

-Reference Points:

Yes

☒ No

-Head Space Readings:

Yes

☒ No

Sample Type: Screening Confirmation Disposal Characterization

Requested Analysis: VOCs SVOCs Other: Full TCLP

Split sample Collected: Yes ☒ No

Laboratory Destination: Lab Res COC # 164215 Airbill # 1243410420

Duplicate Collected: Yes

☒ No

Rinsate Collected: Yes

☒ No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis:

VOCs

SVOCs

Cooler Temperature: \_\_\_\_\_

Relinquished by (dd/mm):

H. Hume

11/20/96  
1600

Received by (dd/mm): \_\_\_\_\_

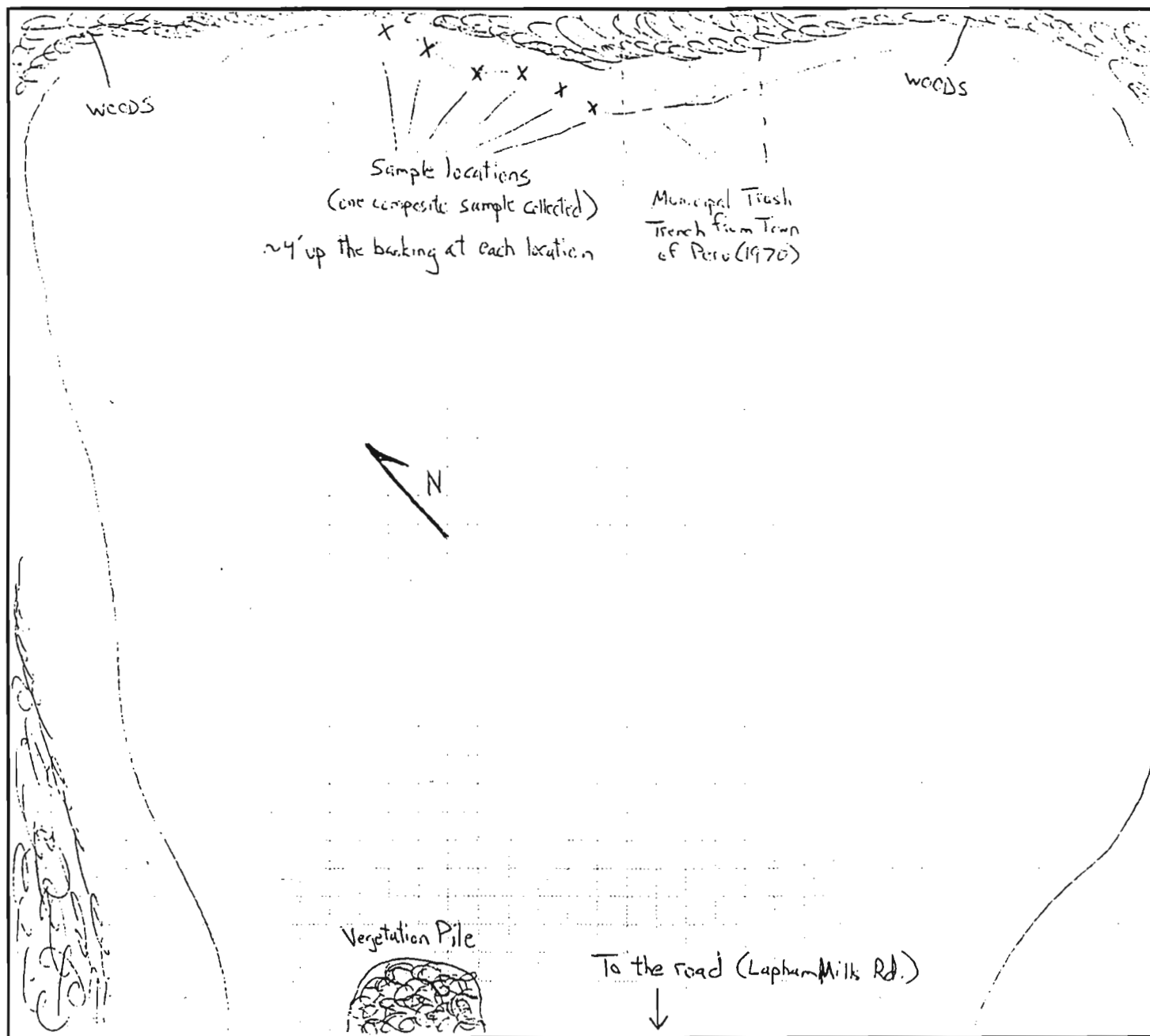


**Site Map: Headspace / Confirmation Sampling  
Plattsburgh AFB - Project #17499**

Site Name: Clean Fill Source  
Gimsby Sand Mine, Peru

Date: 11/20/96

Prepared by: G. G.



Ref  
Points

N/A

Comments

- Not drawn to scale
- X denotes sampling locations
- One composite sample collected (CF-1120)

**Sampling & Analysis Site Report  
On-Site Laboratory  
Plattsburgh AFB - Project #17499**

Site: Ormsby Sand Mine, Peru, NY

Date: 10/31/96

Sample Collection:

-A composite sample (CF-1010) was collected from the Ormsby Sand Mine in Peru, NY on 10/10/96. The sand from the mine is used for backfill material at many of the sites throughout the base. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

On-Site Analysis:

-The on-site laboratory has been shipped off of the Air Force Base to another job site. All samples will be analyzed by off-site laboratories.

Off-Site Analysis:

-The sample CF-1010 was shipped to CTM Laboratories in Latham, NY for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.

# CTM Analytical Laboratories, Ltd.

15 Century Hill Drive  
P.O. Box 727  
Latham, NY 12110  
518-786-7100  
FAX 518-786-7139



GC/MS  
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ICAP  
Sampling Services

Laboratory Analysis Report  
Prepared for: OHM REMEDIATION SERVICES CORP  
CTM Project Number: 9913642  
CTM Task Number: 961011J  
07 NOV 1996

## IMPORTANT - PLEASE NOTE

1. All results are calculated on a dry weight basis unless otherwise specified.
2. PQL = Practical Quantitation Limit.
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
4. ND = Not Detected at or above the PQL.
5. NTP = Non-target peaks (1-5 peaks).  
MNTP = Many non-target peaks (5+ peaks).
6. pH results not performed in the field should be considered estimated since the holding time is 15 minutes from the sampling time.
7. If the samples are collected independently of our laboratory, CTM is not responsible for the possible contamination during the sampling procedure.
8. Methylene chloride and acetone are common laboratory artifacts for volatile organic analysis. Bis-(2-ethyl-hexyl) phthalate and di-n-butylphthalate are common laboratory artifacts for GC/MS semivolatile analysis. Other compounds may also appear as laboratory artifacts for the organic analyses. The above compounds will be flagged as suspected laboratory artifacts if the detected value is less than five (5) times of the PQL in the sample. Acetone will be flagged as a suspected laboratory artifact only up to two and a half (2.5) times of the PQL.
9. If air samples are collected independently of our laboratory, CTM is not responsible for inadequate sample volume for air analysis.

AUTHORIZED FOR RELEASE:

DATE: 11/7/96

## CERTIFICATIONS:

NYS E.L.A.P. ID NO: 10358

MA: NY052

CT: PH-0551

NJ: 73581

# CTM Analytical Laboratories, Ltd.

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GC/MS  
GC  
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Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

Attention: MR. GREG GUIMOND

CTM Task #: 961011J

Purchase Order Number: 1026625  
Date Sampled: 10/10/96 Time: 13:15  
Sampled By : GUIMOND  
Sample Id: CF-1010  
Location : PLATTSBURGH, NY

CTM Sample No: 961011J 01  
Date Received: 10/11/96  
Collection Method: COMPOSITE  
Matrix: SOLID

## Parameters and Standard Methodology Used

|                                 |                                  |
|---------------------------------|----------------------------------|
| TCLP-ZERO HEADSPACE EXTRACTIONS | SW-846 METHOD 1311               |
| TCLP VOLATILES                  | SW-846 METHOD 8240               |
| PURGE & TRAP EXTRACTION         | SW-846 METHOD 5030               |
| BENZENE (TCLP)                  | SW-846 METHOD 8240               |
| CARBON TETRACHLORIDE (TCLP)     | SW-846 METHOD 8240               |
| CHLOROBENZENE (TCLP)            | SW-846 METHOD 8240               |
| CHLOROFORM (TCLP)               | SW-846 METHOD 8240               |
| 1,4-DICHLOROBENZENE (TCLP)      | SW-846 METHOD 8240               |
| 1,2-DICHLOROETHANE (TCLP)       | SW-846 METHOD 8240               |
| 1,1-DICHLOROETHYLENE (TCLP)     | SW-846 METHOD 8240               |
| METHYL ETHYL KETONE (TCLP)      | SW-846 METHOD 8240               |
| TETRACHLOROETHYLENE (TCLP)      | SW-846 METHOD 8240               |
| TRICHLOROETHENE (TCLP)          | SW-846 METHOD 8240               |
| VINYL CHLORIDE (TCLP)           | SW-846 METHOD 8240               |
| TCLP BASE/NEUTRALS              | SW-846 METHOD 8270 BASE/NEUTRALS |
| EXTRACTION FOR TCLP B/N         | SW-846 METHOD 8270               |
| HEXACHLOROBENZENE (TCLP)        | SW-846 METHOD 8270 BASE/NEUTRALS |
| HEXACHLOROBUTADIENE (TCLP)      | SW-846 METHOD 8270 BASE/NEUTRALS |
| PYRIDINE (TCLP)                 | SW-846 METHOD 8270 BASE/NEUTRALS |
| 2,4-DINITROTOLUENE (TCLP)       | SW-846 METHOD 8270 BASE/NEUTRALS |
| HEXACHLOROETHANE (TCLP)         | SW-846 METHOD 8270 BASE/NEUTRALS |
| NITROBENZENE (TCLP)             | SW-846 METHOD 8270 BASE/NEUTRALS |
| 1,4-DICHLOROBENZENE (TCLP)      | SW-846 METHOD 8270 BASE/NEUTRALS |
| TCLP EXTRACTION                 | SW-846 METHOD 1311               |
| TCLP ACID EXTRACTABLES          | SW-846 METHOD 8270               |
| EXTRACTION FOR TCLP ACID/EXT.   | SW-846 METHOD 8270               |
| O-CRESOL (TCLP)                 | SW-846 METHOD 8270 ACID FRACTION |
| PENTACHLOROPHENOL (TCLP)        | SW-846 METHOD 8270 ACID FRACTION |
| 2,4,5-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION |
| 2,4,6-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION |
| M & P CRESOL (TCLP)             | SW-846 METHOD 8270 ACID FRACTION |
| ACID DIGESTION ON TCLP EXTRACT  | SW-846 METHOD 3010               |

| Results   | PQL | Unit  | Analyst Reference  |
|-----------|-----|-------|--------------------|
| COMPLETED |     |       | TMH 10/15/96       |
| COMPLETED |     |       | GCMSEA116 10/17/96 |
| COMPLETED |     |       | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 10  | MCG/L | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 5   | MCG/L | GCMSEA116 10/17/96 |
| ND        | 10  | MCG/L | GCMSEA116 10/17/96 |
| COMPLETED |     |       | GCMSB:41 10/22/96  |
| COMPLETED |     |       | ACM 10/17/96       |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| COMPLETED |     |       | MPC 10/15/96       |
| COMPLETED |     |       | GCMSB:41 10/22/96  |
| COMPLETED |     |       | ACM 10/17/96       |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 25  | MCG/L | GCMSB:41 10/22/96  |
| ND        | 25  | MCG/L | GCMSB:41 10/22/96  |
| ND        | 5   | MCG/L | GCMSB:41 10/22/96  |
| ND        | 10  | MCG/L | GCMSB:41 10/22/96  |
| COMPLETED |     |       | D-21:91 10/16/96   |

( CONTINUES ON NEXT PAGE )

REMARKS:

00003

# CTM Analytical Laboratories, Ltd.

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Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

CTM Task #: 961011J

Attention: MR. GREG GUIMOND

Purchase Order Number: 1026625  
Date Sampled: 10/10/96 Time: 13:15  
Sampled By : GUIMOND  
Sample Id: CF-1010  
Location : PLATTSBURGH, NY.

CTM Sample No: 961011J 01  
Date Received: 10/11/96  
Collection Method: COMPOSITE  
Matrix: SOLID

## Parameters and Standard Methodology Used

| Results | PQL | Unit | Analyst Reference |
|---------|-----|------|-------------------|
|---------|-----|------|-------------------|

( CONTINUED FROM PREVIOUS PAGE )

|                               |                          |           |        |       |                  |
|-------------------------------|--------------------------|-----------|--------|-------|------------------|
| MERCURY PREPARATION - TCLP    | SW-846 METHOD 7471       | COMPLETED |        |       | D-21:93 10/16/96 |
| ARSENIC, BY TCLP              | SW-846 METHOD 6010       | ND        | 0.010  | MG/L  | F-5:28 10/16/96  |
| BARIUM, BY TCLP               | SW-846 METHOD 6010       | 0.64      | 0.60   | MG/L  | F-5:28 10/16/96  |
| CADMIUM, BY TCLP              | SW-846 METHOD 6010       | ND        | 0.005  | MG/L  | F-5:28 10/16/96  |
| CHROMIUM, BY TCLP             | SW-846 METHOD 6010       | ND        | 0.010  | MG/L  | F-5:28 10/16/96  |
| LEAD, BY TCLP                 | SW-846 METHOD 6010       | ND        | 0.005  | MG/L  | F-5:28 10/16/96  |
| MERCURY, BY TCLP              | SW-846 METHOD 7471       | ND        | 0.0002 | MG/L  | E-4:129 10/17/96 |
| SELENIUM, BY TCLP             | SW-846 METHOD 6010       | ND        | 0.050  | MG/L  | F-5:28 10/16/96  |
| SILVER, BY TCLP               | SW-846 METHOD 6010       | ND        | 0.010  | MG/L  | F-5:32 10/21/96  |
| TCLP PESTICIDES/HERBICIDES    | SW-846 METHODS 8080/8150 | COMPLETED |        |       | DO 10/25/96      |
| EXTRACTION FOR TCLP PESTICIDE | SW-846 METHOD 8080       | COMPLETED |        |       | DO 10/23/96      |
| CHLORDANE (TCLP)              | SW-846 METHOD 8080       | ND        | 0.5    | MCG/L | GC3F:18 10/23/96 |
| ENDRIN (TCLP)                 | SW-846 METHOD 8080       | ND        | 0.05   | MCG/L | GC3F:18 10/23/96 |
| HEPTACHLOR (TCLP)             | SW-846 METHOD 8080       | ND        | 0.05   | MCG/L | GC3F:18 10/23/96 |
| HEPTACHLOR EPOXIDE (TCLP)     | SW-846 METHOD 8080       | ND        | 0.05   | MCG/L | GC3F:18 10/23/96 |
| LINDANE (TCLP)                | SW-846 METHOD 8080       | ND        | 0.05   | MCG/L | GC3F:18 10/23/96 |
| METHOXYCHLOR (TCLP)           | SW-846 METHOD 8080       | ND        | 0.05   | MCG/L | GC3F:18 10/23/96 |
| TOXAPHENE (TCLP)              | SW-846 METHOD 8080       | ND        | 1.0    | MCG/L | GC3F:18 10/23/96 |
| EXTRACTION FOR TCLP HERBICIDE | SW-846 METHOD 8150       | COMPLETED |        |       | DO 10/22/96      |
| 2,4-D (TCLP)                  | SW-846 METHOD 8150       | ND        | 0.20   | MCG/L | GC3F:19 10/25/96 |
| 2,4,5-TP (SILVEX) (TCLP)      | SW-846 METHOD 8150       | ND        | 0.20   | MCG/L | GC3F:19 10/25/96 |

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

8-00004

# CHAIN-OF-CUSTODY RECORD

TRANSFER 1

Form 0019  
Field Technical Services  
Rev. 08/89

1011  
Port 1020625  
164233

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

|                                                   |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
|---------------------------------------------------|----------------------------------------|---------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------|--|------|-----------------------------------|------|------------------------------------------------------------|
| PROJECT NAME<br><b>PAFR</b>                       |                                        | PROJECT LOCATION<br><b>Plattsburgh, NY</b>        |                                                | ANALYSIS DESIRED<br>(INDICATE SEPARATE CONTAINERS)<br><i>Full 10-40</i> |  |      |                                   |      |                                                            |
| PROJ. NO.<br><b>17499</b>                         | PROJECT CONTACT<br><b>Greg Guimond</b> |                                                   | PROJECT TELEPHONE NO.<br><b>(518) 562-3923</b> |                                                                         |  |      |                                   |      |                                                            |
| CLIENT'S REPRESENTATIVE<br><b>AFCEE, Joe Szot</b> |                                        | PROJECT MANAGER/SUPERVISOR<br><b>Ken Kukkonen</b> |                                                |                                                                         |  |      |                                   |      |                                                            |
| ITEM NO.                                          |                                        | SAMPLE NUMBER                                     | DATE                                           |                                                                         |  | TIME | COMP                              | GRAB | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND POINT OF SAMPLE) |
| 1                                                 | CF-1010                                | 10/10/96                                          | 1315                                           | X                                                                       |  |      | Clean fill composite (Grassy Pit) | X    |                                                            |
| 2                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 3                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 4                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 5                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 6                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 7                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 8                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 9                                                 |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |
| 10                                                |                                        |                                                   |                                                |                                                                         |  |      |                                   |      |                                                            |

|                 |             |                           |                             |          |      |                                                 |
|-----------------|-------------|---------------------------|-----------------------------|----------|------|-------------------------------------------------|
| TRANSFER NUMBER | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY       | DATE     | TIME | REMARKS                                         |
| 1               | 1           | <i>A. Guimond</i>         | FedEx Arrived<br>23113 5146 | 10/10/96 | 1600 | They were not<br>back yet (results by 10/10/96) |
| 2               |             |                           |                             |          |      |                                                 |
| 3               |             |                           |                             |          |      |                                                 |
| 4               |             |                           |                             |          |      |                                                 |

SAMPLER'S SIGNATURE  
*Ken Kukkonen*

**Soil Sample Collection Log**  
**Plattsburgh AFB - Project # 17257/17499**

Pg. 1 of 2

Date: 10/10/96

Site: Clean Fill Source  
Ormsby Sand Mine, Peru

Weather: Cloudy, 65°F

Samplers: G.G.

| Sample ID | Time | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates Ref. Pt. | Coordinates Ref. Pt. | Sample Description | # of Bottles |
|-----------|------|------------|------------|-------------------|----------------------|----------------------|--------------------|--------------|
| C.F-1010  | 1315 | /          | C          | 4' up bank        | /                    | /                    | gold sand          | 1x1L         |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |

Map Attached: Yes No

-Reference Points:

Yes

No

-Head Space Readings:

Yes

No

Sample Type: Screening Confirmation Disposal/ Characterization

Requested Analysis: VOCs SVOCs Other: Full TCLP

Split sample Collected: Yes No

Laboratory Destination: CTM COC # 164233 Airbill # 2311305146

Duplicate Collected: Yes

No

Rinsate Collected: Yes

No

**On-Site Laboratory Chain of Custody / Request for Analysis**

Requested Analysis: VOCs SVOCs Cooler Temperature: \_\_\_\_\_

Relinquished by (dd/lt): \_\_\_\_\_ Received by (dd/lt): \_\_\_\_\_

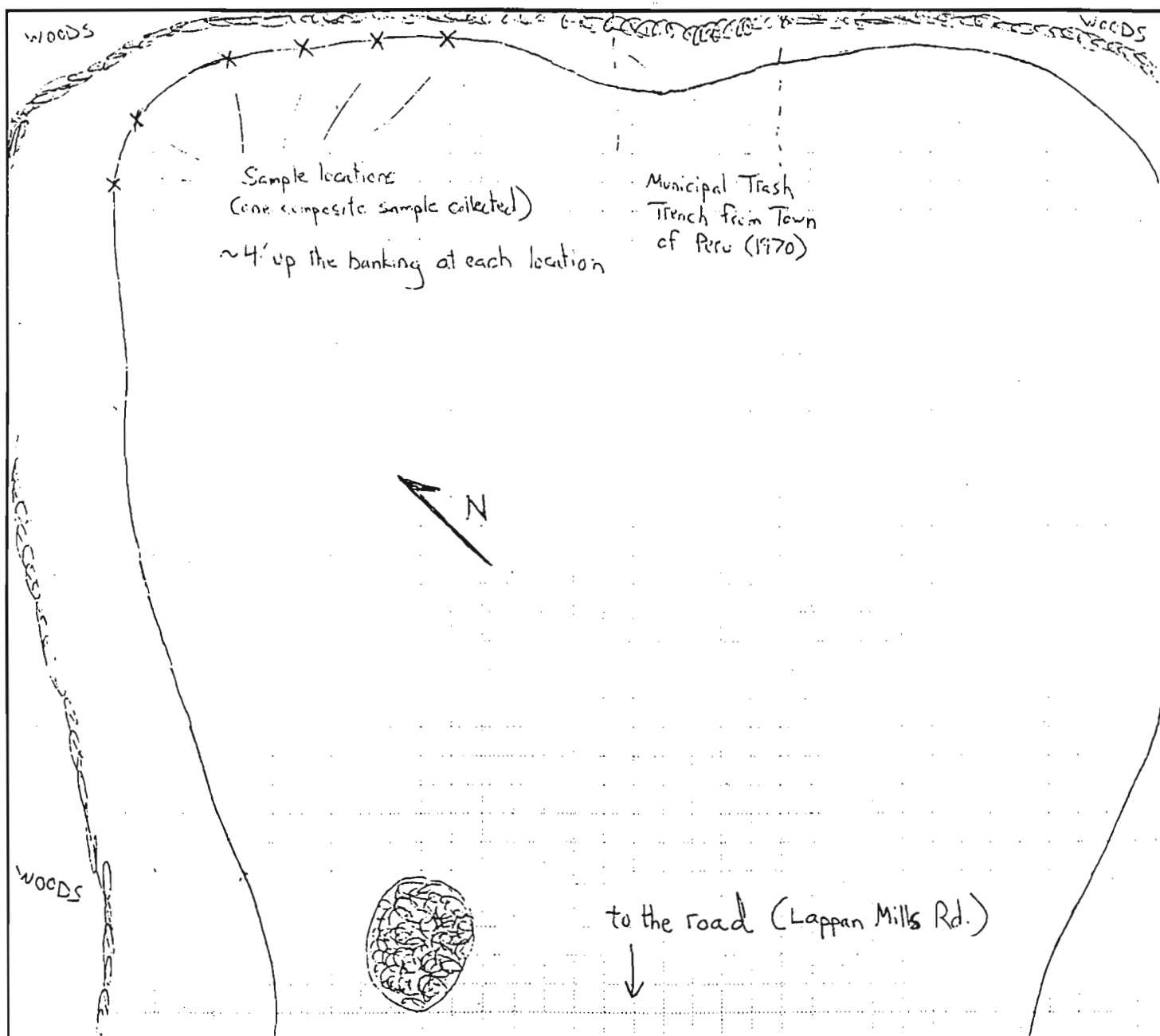


Site Map: Headspace / Confirmation Sampling  
Plattsburgh AFB - Project #17499

Date: 10/10/96

Site Name: Clean Fill Source  
Gensby Sand Mine, Peru

Prepared by: G.G.



PID  
Readings

N/A

Ref. Points

N/A

Comments:

- Not drawn to scale

X - denotes sample locations

One composite sample was collected (CF-1010)

**Sampling & Analysis Site Report  
On-Site Laboratory  
Plattsburgh AFB - Project #17499**

Site: Ormsby Sand Mine, Peru, NY

Date: 08/23/96

Sample Collection:

-A composite sample (CF-813) was collected from the Ormsby Sand Mine in Peru, NY on 08/13/96. The sand from the mine is used for backfill material at many of the sites throughout the base. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

On-Site Analysis:

-No samples were analyzed on-site.

Off-Site Analysis:

-The sample CF-813 was shipped to CTM Laboratories in Latham, NY for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.

# CTM Analytical Laboratories, Ltd.

15 Century Hill Drive  
PO. Box 727  
Latham, NY 12110  
518-786-7100  
FAX 518-786-7139



GC/MS  
GC  
ICAP  
Sampling Services

Laboratory Analysis Report  
Prepared for: OHM REMEDIATION SERVICES CORP  
CTM Project Number: 9913642  
CTM Task Number: 960816H  
23 AUG 1996

## IMPORTANT - PLEASE NOTE

1. All results are calculated on a dry weight basis unless otherwise specified.
2. PQL = Practical Quantitation Limit.
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
4. ND = Not Detected at or above the PQL.
5. NTP = Non-target peaks (1-5 peaks).  
MNTP = Many non-target peaks (5+ peaks).
6. pH results not performed in the field should be considered estimated since the holding time is 15 minutes from the sampling time.
7. If the samples are collected independently of our laboratory, CTM is not responsible for the possible contamination during the sampling procedure.
8. Methylene chloride and acetone are common laboratory artifacts for volatile organic analysis. Bis-(2-ethyl-hexyl) phthalate and di-n-butylphthalate are common laboratory artifacts for GC/MS semivolatile analysis. Other compounds may also appear as laboratory artifacts for the organic analyses. The above compounds will be flagged as suspected laboratory artifacts if the detected value is less than five (5) times of the PQL in the sample. Acetone will be flagged as a suspected laboratory artifact only up to two and a half (2.5) times of the PQL.
9. If air samples are collected independently of our laboratory, CTM is not responsible for inadequate sample volume for air analysis.

AUTHORIZED FOR RELEASE:

*Christopher H. S.*

DATE: 8/23/96

## CERTIFICATIONS:

NYS E.L.A.P. ID NO: 10358

MA: NY052

CT: PH-0551

NJ: 73581

# CTM Analytical Laboratories, Ltd.

PAGE 1

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GC/MS  
GC  
ICAP  
Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

Attention: MR. GREG GUIMOND

CTM Task #: 960816H

Purchase Order Number: 153141  
Date Sampled: 08/13/96 Time: 9:00  
Sampled By : SLADE  
Sample Id: CF-813  
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960816H 01  
Date Received: 08/16/96  
Collection Method: COMPOSITE  
Matrix: SOIL

## Parameters and Standard Methodology Used

|                                 |                                  |
|---------------------------------|----------------------------------|
| TCLP-ZERO HEADSPACE EXTRACTIONS | SW-846 METHOD 1311               |
| TCLP VOLATILES                  | SW-846 METHOD 8240               |
| PURGE & TRAP EXTRACTION         | SW-846 METHOD 5030               |
| BENZENE (TCLP)                  | SW-846 METHOD 8240               |
| CARBON TETRACHLORIDE (TCLP)     | SW-846 METHOD 8240               |
| CHLOROBENZENE (TCLP)            | SW-846 METHOD 8240               |
| CHLOROFORM (TCLP)               | SW-846 METHOD 8240               |
| 1,4-DICHLOROBENZENE (TCLP)      | SW-846 METHOD 8240               |
| 1,2-DICHLOROETHANE (TCLP)       | SW-846 METHOD 8240               |
| 1,1-DICHLOROETHYLENE (TCLP)     | SW-846 METHOD 8240               |
| METHYL ETHYL KETONE (TCLP)      | SW-846 METHOD 8240               |
| TETRACHLOROETHYLENE (TCLP)      | SW-846 METHOD 8240               |
| TRICHLOROETHYLENE (TCLP)        | SW-846 METHOD 8240               |
| VINYL CHLORIDE (TCLP)           | SW-846 METHOD 8240               |
| TCLP EXTRACTION                 | SW-846 METHOD 1311               |
| TCLP ACID EXTRACTABLES          | SW-846 METHOD 8270               |
| EXTRACTION FOR TCLP ACID/EXT.   | SW-846 METHOD 8270               |
| O-CRESOL (TCLP)                 | SW-846 METHOD 8270 ACID FRACTION |
| PENTACHLOROPHENOL (TCLP)        | SW-846 METHOD 8270 ACID FRACTION |
| 2,4,5-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION |
| 2,4,6-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION |
| M & P CRESOL (TCLP)             | SW-846 METHOD 8270 ACID FRACTION |
| TCLP BASE/NEUTRALS              | SW-846 METHOD 8270 BASE/NEUTRALS |
| EXTRACTION FOR TCLP B/N         | SW-846 METHOD 8270               |
| HEXACHLOROBENZENE (TCLP)        | SW-846 METHOD 8270 BASE/NEUTRALS |
| HEXACHLOROBUTADIENE (TCLP)      | SW-846 METHOD 8270 BASE/NEUTRALS |
| PYRIDINE (TCLP)                 | SW-846 METHOD 8270 BASE/NEUTRALS |
| 2,4-DINITROTOLUENE (TCLP)       | SW-846 METHOD 8270 BASE/NEUTRALS |
| HEXACHLOROETHANE (TCLP)         | SW-846 METHOD 8270 BASE/NEUTRALS |
| NITROBENZENE (TCLP)             | SW-846 METHOD 8270 BASE/NEUTRALS |
| 1,4-DICHLOROBENZENE (TCLP)      | SW-846 METHOD 8270 BASE/NEUTRALS |
| TCLP PESTICIDES/HERBICIDES      | SW-846 METHODS 8080/8150         |

| Results   | PQL | Unit  | Analyst Reference |
|-----------|-----|-------|-------------------|
| COMPLETED |     |       | TH 8/19/96        |
| COMPLETED |     |       | GCMSCD:95 8/20/96 |
| COMPLETED |     |       | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 10  | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 5   | MCG/L | GCMSCD:95 8/20/96 |
| ND        | 10  | MCG/L | GCMSCD:95 8/20/96 |
| COMPLETED |     |       | D-21:13 8/16/96   |
| COMPLETED |     |       | GCMSB:4 8/21/96   |
| COMPLETED |     |       | MPC 8/20/96       |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 100 | MCG/L | GCMSB:4 8/21/96   |
| ND        | 100 | MCG/L | GCMSB:4 8/21/96   |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 40  | MCG/L | GCMSB:4 8/21/96   |
| COMPLETED |     |       | GCMSB:4 8/21/96   |
| COMPLETED |     |       | MPC 8/20/96       |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| ND        | 20  | MCG/L | GCMSB:4 8/21/96   |
| COMPLETED |     |       | DO 8/20/96        |

( CONTINUES ON NEXT PAGE )

REMARKS:

00003

# CTM Analytical Laboratories, Ltd.

PAGE 2

15 Century Hill Drive  
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FAX 518-786-7139



GC/MS  
GC  
ICAP  
Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

Attention: MR. GREG GUIMOND

CTM Task #: 960816H

Purchase Order Number: 153141  
Date Sampled: 08/13/96 Time: 9:00  
Sampled By: SLADE  
Sample Id: CF-813  
Location: PLATTSBURGH, NEW YORK

CTM Sample No: 960816H 01  
Date Received: 08/16/96  
Collection Method: COMPOSITE  
Matrix: SOIL

## Parameters and Standard Methodology Used

| Results | PQL | Unit | Analyst Reference |
|---------|-----|------|-------------------|
|---------|-----|------|-------------------|

( CONTINUED FROM PREVIOUS PAGE )

|                                                   |           |        |       |                 |
|---------------------------------------------------|-----------|--------|-------|-----------------|
| EXTRACTION FOR TCLP PESTICIDE SW-846 METHOD 8080  | COMPLETED |        |       | DO 8/19/96      |
| CHLORDANE (TCLP) SW-846 METHOD 8080               | ND        | 2.0    | MCG/L | GC3F:8 8/20/96  |
| ENDRIN (TCLP) SW-846 METHOD 8080                  | ND        | 0.20   | MCG/L | GC3F:8 8/20/96  |
| HEPTACHLOR (TCLP) SW-846 METHOD 8080              | ND        | 0.20   | MCG/L | GC3F:8 8/20/96  |
| HEPTACHLOR EPOXIDE (TCLP) SW-846 METHOD 8080      | ND        | 0.20   | MCG/L | GC3F:8 8/20/96  |
| LINDANE (TCLP) SW-846 METHOD 8080                 | ND        | 0.20   | MCG/L | GC3F:8 8/20/96  |
| METHOXYCHLOR (TCLP) SW-846 METHOD 8080            | ND        | 0.20   | MCG/L | GC3F:8 8/20/96  |
| TOXAPHENE (TCLP) SW-846 METHOD 8080               | ND        | 4.0    | MCG/L | GC3F:8 8/20/96  |
| EXTRACTION FOR TCLP HERBICIDE SW-846 METHOD 8150  | COMPLETED |        |       | DO 8/19/96      |
| 2,4-D (TCLP) SW-846 METHOD 8150                   | ND        | 0.20   | MCG/L | GC3F:7 8/20/96  |
| 2,4,5-TP (SILVEX) (TCLP) SW-846 METHOD 8150       | ND        | 0.20   | MCG/L | GC3F:7 8/20/96  |
| ACID DIGESTION ON TCLP EXTRACT SW-846 METHOD 3010 | COMPLETED |        |       | D-21:19 8/21/96 |
| MERCURY PREPARATION - TCLP SW-846 METHOD 7471     | COMPLETED |        |       | D-21:17 8/20/96 |
| ARSENIC, BY TCLP SW-846 METHOD 6010               | ND        | 0.010  | MG/L  | F-4:123 8/22/96 |
| BARIUM, BY TCLP SW-846 METHOD 6010                | 0.15      | 0.050  | MG/L  | F-4:123 8/22/96 |
| CADMIUM, BY TCLP SW-846 METHOD 6010               | ND        | 0.005  | MG/L  | F-4:123 8/22/96 |
| CHROMIUM, BY TCLP SW-846 METHOD 6010              | ND        | 0.010  | MG/L  | F-4:123 8/22/96 |
| LEAD, BY TCLP SW-846 METHOD 6010                  | ND        | 0.37   | MG/L  | F-4:123 8/22/96 |
| MERCURY, BY TCLP SW-846 METHOD 7471               | ND        | 0.0002 | MG/L  | E-4:107 8/21/96 |
| SELENIUM, BY TCLP SW-846 METHOD 6010              | ND        | 0.050  | MG/L  | F-4:123 8/22/96 |
| SILVER, BY TCLP SW-846 METHOD 6010                | ND        | 0.010  | MG/L  | F-4:123 8/22/96 |

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

00004



OHM Remediation  
Services Corp.

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

9600811041

LP43083

153141

|                                         |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
|-----------------------------------------|------------------|----------------------------------------|------|------|---------------------------------------------------|---------------------------------------------------------------|--|------------|------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------|---------|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|
| O.H. MATERIALS CORP.                    |                  |                                        |      |      |                                                   |                                                               |  |            |      | P.O. BOX 551                                                               |                                                                                 |  |  |  |  |  |  |  |  | FINDLAY, OH 45839-0551 |         |  |  |  |  |  |  |  |  | 419-423-3526 |  |  |  |  |  |  |  |  |  |
| PROJECT NAME<br><b>PAFB</b>             |                  |                                        |      |      | PROJECT LOCATION<br><b>Plattsburgh, NY</b>        |                                                               |  |            |      | NUMBER<br>OF CONTAINERS                                                    | ANALYSIS DESIRED<br>(INDICATE<br>SEPARATE<br>CONTAINERS)<br><br><i>EWI TCLP</i> |  |  |  |  |  |  |  |  |                        | REMARKS |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| PROJ. NO.<br><b>17257</b>               |                  | PROJECT CONTACT<br><b>Greg Guimond</b> |      |      | PROJECT TELEPHONE NO.<br><b>(518) 562-3923</b>    |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| CLIENT'S REPRESENTATIVE<br><b>AFCEE</b> |                  |                                        |      |      | PROJECT MANAGER/SUPERVISOR<br><b>Ken Kukkonen</b> |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| ITEM NO.                                | SAMPLE<br>NUMBER | DATE                                   | TIME | COMP | GRAB                                              | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND<br>POINT OF SAMPLE) |  |            |      |                                                                            | 1x1L                                                                            |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 1                                       | CF-813           | 8/13<br>96                             | 0900 | X    |                                                   | Geklen Sand                                                   |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 2                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 3                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 4                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 5                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 6                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 7                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 8                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 9                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 10                                      |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| TRANSFER<br>NUMBER                      | ITEM<br>NUMBER   | TRANSFERS<br>RELINQUISHED BY           |      |      | TRANSFERS<br>ACCEPTED BY                          |                                                               |  | DATE       | TIME | REMARKS                                                                    |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 1                                       | 1                | <i>Michael A. Steele</i>               |      |      | Fed Ex Airbill #<br>1836640120                    |                                                               |  | 8/14<br>96 | 1600 | Preserved at 4°C<br>Temp Blank. Included<br>4 day TAT<br>500ul<br>per P.K. |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 2                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      | <i>Michael Steele</i> 8-15-96                                              |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 3                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |
| 4                                       |                  |                                        |      |      |                                                   |                                                               |  |            |      |                                                                            |                                                                                 |  |  |  |  |  |  |  |  |                        |         |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |

Soil Sample Collection Log  
Plattsburgh AFB - Project # 17257/17499

Date: 8-13-96

Site: Cambsky Clean Fill

Pg. 1 of 2

Weather: 75° Sunny

Samplers: Mike SLADE

| Sample ID | Time | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates Ref. Pt. | Coordinates Ref. Pt. | Sample Description | # of Bottles |
|-----------|------|------------|------------|-------------------|----------------------|----------------------|--------------------|--------------|
| OCF-813   | 9:11 |            | C          | 6'                |                      |                      | SAND CLEAN         | 1 x 1L       |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |

Map Attached: ☒ Yes ☐ No

-Reference Points:

Yes

☒ No

-Head Space Readings:

Yes

☒ No

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis:

☒ VOCs

☒ SVOCs

Other: \_\_\_\_\_

Split sample Collected:

Yes

☒ No

Laboratory Destination: \_\_\_\_\_

COC # \_\_\_\_\_

Airbill # \_\_\_\_\_

Duplicate Collected: Yes

No

Rinsate Collected: Yes

No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis:

☒ VOCs

☒ SVOCs

Cooler Temperature: \_\_\_\_\_

Relinquished by (dd/tt):

Michael Hall

Received by (dd/tt):

8-13-96  
9:50

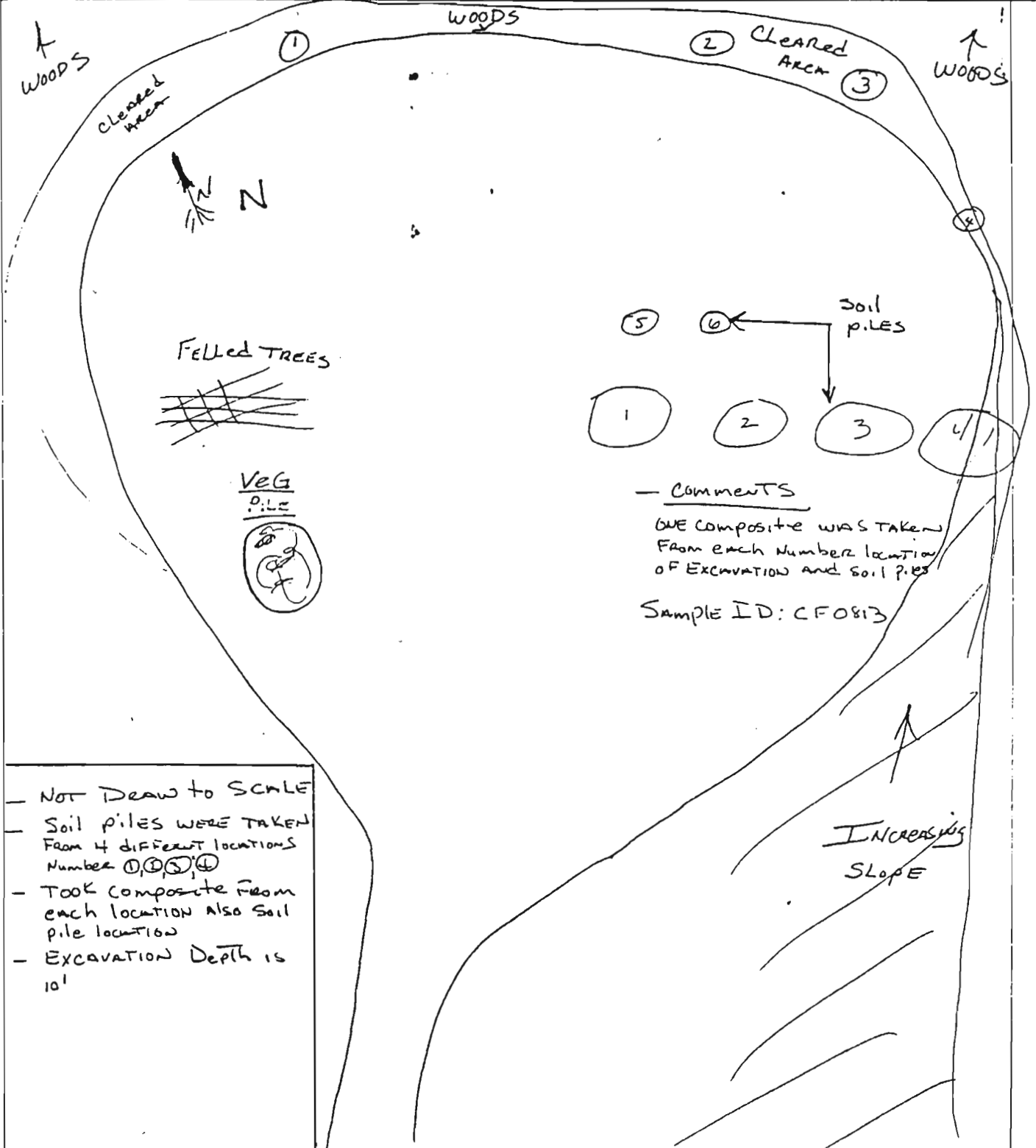
8/13/96 9.





Page 2 of 2

|                                  |                        |                                      |                                      |
|----------------------------------|------------------------|--------------------------------------|--------------------------------------|
| Proj. No.<br><u>17257</u>        | Client<br><u>AFCEE</u> | Location<br><u>Ormsby Clean Fill</u> | Subject<br><u>Clean Fill Testing</u> |
| Preparer's<br>Initials <u>MS</u> | Date<br><u>8-13-96</u> | Reviewer's<br>Initials               | Date                                 |
| Approver's<br>Initials           |                        | Date                                 |                                      |



- NOT Draw to SCALE
- Soil piles were TAKEN FROM 4 different locations Number ①, ②, ③, ④
- TOOK Composite FROM each location ALSO Soil pile location
- EXCAVATION Depth is 10'

**Sampling & Analysis Site Report  
On-Site Laboratory  
Plattsburgh AFB - Project #17499**

Site: Christian Sand Pit, Peru, NY

Date: 08/01/96

Sample Collection:

-A composite sample (CFCP-1) was collected from the Christian Sand Pit in Peru, NY on 07/25/96. The sand from the pit was used for backfill material at many of the sites throughout the base. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

On-Site Analysis:

-No samples were analyzed on-site.

Off-Site Analysis:

-The sample CFCP-1 was shipped to CTM Laboratories in Latham, NY for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.

# CTM Analytical Laboratories, Ltd.

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GC/MS  
GC  
ICAP  
Sampling Services

## Laboratory Analysis Report

Prepared for: OHM REMEDIATION SERVICES CORP

CTM Project Number: 9913642

CTM Task Number: 960729A

01 AUG 1996

### IMPORTANT - PLEASE NOTE

1. All results are calculated on a dry weight basis unless otherwise specified.
2. PQL = Practical Quantitation Limit.
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
4. ND = Not Detected at or above the PQL.
5. NTP = Non-target peaks (1-5 peaks).  
MNTP = Many non-target peaks (5+ peaks).
6. pH results not performed in the field should be considered estimated since the holding time is 15 minutes from the sampling time.
7. If the samples are collected independently of our laboratory, CTM is not responsible for the possible contamination during the sampling procedure.
8. Methylene chloride and acetone are common laboratory artifacts for volatile organic analysis. Bis-(2-ethyl-hexyl) phthalate and di-n-butylphthalate are common laboratory artifacts for GC/MS semivolatile analysis. Other compounds may also appear as laboratory artifacts for the organic analyses. The above compounds will be flagged as suspected laboratory artifacts if the detected value is less than five (5) times of the PQL in the sample. Acetone will be flagged as a suspected laboratory artifact only up to two and a half (2.5) times of the PQL.
9. If air samples are collected independently of our laboratory, CTM is not responsible for inadequate sample volume for air analysis.

AUTHORIZED FOR RELEASE:

DATE: 8/1/96

### CERTIFICATIONS:

NYS E.L.A.P. ID NO: 10358

MA: NY052

CT: PH-0551

NJ: 73581

# CTM Analytical Laboratories, Ltd.

PAGE 1

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FAX 518-786-7139



GC/MS  
GC  
ICAP  
Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

Attention: MR. GREG GUIMOND

CTM Task #: 960729A

Purchase Order Number: 1024783  
Date Sampled: 07/25/96 Time: 15:20  
Sampled By : JONES  
Sample Id: CFCP-1  
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960729A 01  
Date Received: 07/27/96  
Collection Method: COMPOSITE  
Matrix: SOIL

## Parameters and Standard Methodology Used

|                                 |                                  | Results   | POL | Unit  | Analyst Reference |
|---------------------------------|----------------------------------|-----------|-----|-------|-------------------|
| TCLP-ZERO HEADSPACE EXTRACTIONS | SW-846 METHOD 1311               | COMPLETED |     |       | DO 7/28/96        |
| TCLP VOLATILES                  | SW-846 METHOD 8240               | COMPLETED |     |       | GCMSCD:86 7/30/96 |
| PURGE & TRAP EXTRACTION         | SW-846 METHOD 5030               | COMPLETED |     |       | GCMSCD:86 7/30/96 |
| BENZENE (TCLP)                  | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| CARBON TETRACHLORIDE (TCLP)     | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| CHLOROBENZENE (TCLP)            | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| CHLOROFORM (TCLP)               | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| 1,4-DICHLOROBENZENE (TCLP)      | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| 1,2-DICHLOROETHANE (TCLP)       | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| 1,1-DICHLOROETHYLENE (TCLP)     | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| METHYL ETHYL KETONE (TCLP)      | SW-846 METHOD 8240               | ND        | 10  | MCG/L | GCMSCD:86 7/30/96 |
| TETRACHLOROETHYLENE (TCLP)      | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| TRICHLOROETHYLENE (TCLP)        | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:86 7/30/96 |
| VINYL CHLORIDE (TCLP)           | SW-846 METHOD 8240               | ND        | 10  | MCG/L | GCMSCD:86 7/30/96 |
| TCLP EXTRACTION                 | SW-846 METHOD 1311               | COMPLETED |     |       | D-20:145 7/28/96  |
| TCLP ACID EXTRACTABLES          | SW-846 METHOD 8270               | COMPLETED |     |       | GCMSB:106 7/30/96 |
| EXTRACTION FOR TCLP ACID/EXT.   | SW-846 METHOD 8270               | COMPLETED |     |       | DO 7/29/96        |
| O-CRESOL (TCLP)                 | SW-846 METHOD 8270 ACID FRACTION | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| PENTACHLOROPHENOL (TCLP)        | SW-846 METHOD 8270 ACID FRACTION | ND        | 100 | MCG/L | GCMSB:106 7/30/96 |
| 2,4,5-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION | ND        | 100 | MCG/L | GCMSB:106 7/30/96 |
| 2,4,6-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| M & P CRESOL (TCLP)             | SW-846 METHOD 8270 ACID FRACTION | ND        | 40  | MCG/L | GCMSB:106 7/30/96 |
| TCLP BASE/NEUTRALS              | SW-846 METHOD 8270 BASE/NEUTRALS | COMPLETED |     |       | GCMSB:106 7/30/96 |
| EXTRACTION FOR TCLP B/N         | SW-846 METHOD 8270               | COMPLETED |     |       | DO 7/29/96        |
| HEXACHLOROBENZENE (TCLP)        | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| HEXACHLOROBUTADIENE (TCLP)      | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| PYRIDINE (TCLP)                 | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| 2,4-DINITROTOLUENE (TCLP)       | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| HEXACHLOROETHANE (TCLP)         | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| NITROBENZENE (TCLP)             | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| 1,4-DICHLOROBENZENE (TCLP)      | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:106 7/30/96 |
| TCLP PESTICIDES/HERBICIDES      | SW-846 METHODS 8080/8150         | COMPLETED |     |       | DO 7/30/96        |

( CONTINUES ON NEXT PAGE )

REMARKS:

000003

# CTM Analytical Laboratories, Ltd.

PAGE 2

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Latham, NY 12110  
518-786-7100  
FAX 518-786-7139



GC/MS  
GC  
ICAP  
Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

Attention: MR. GREG GUIMOND

CTM Task #: 960729A

Purchase Order Number: 1024783  
Date Sampled: 07/25/96 Time: 15:20  
Sampled By : JONES  
Sample Id: CFCP-1  
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960729A 01  
Date Received: 07/27/96  
Collection Method: COMPOSITE  
Matrix: SOIL

## Parameters and Standard Methodology Used

| Results | PQL | Unit | Analyst Referen |
|---------|-----|------|-----------------|
|---------|-----|------|-----------------|

( CONTINUED FROM PREVIOUS PAGE )

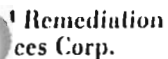
|                                                  |           |        |       |                  |
|--------------------------------------------------|-----------|--------|-------|------------------|
| EXTRACTION FOR TCLP PESTICIDE SW-846 METHOD 8080 | COMPLETED |        |       | DO 7/29/96       |
| CHLORDANE (TCLP) SW-846 METHOD 8080              | ND        | 2.0    | MCG/L | GC8D:79 7/30/96  |
| ENDRIN (TCLP) SW-846 METHOD 8080                 | ND        | 0.20   | MCG/L | GC8D:79 7/30/96  |
| HEPTACHLOR (TCLP) SW-846 METHOD 8080             | ND        | 0.20   | MCG/L | GC8D:79 7/30/96  |
| HEPTACHLOR EPOXIDE (TCLP) SW-846 METHOD 8080     | ND        | 0.20   | MCG/L | GC8D:79 7/30/96  |
| LINDANE (TCLP) SW-846 METHOD 8080                | ND        | 0.20   | MCG/L | GC8D:79 7/30/96  |
| METHOXYCHLOR (TCLP) SW-846 METHOD 8080           | ND        | 0.20   | MCG/L | GC8D:79 7/30/96  |
| TOXAPHENE (TCLP) SW-846 METHOD 8080              | ND        | 4.0    | MCG/L | GC8D:79 7/30/96  |
| EXTRACTION FOR TCLP HERBICIDE SW-846 METHOD 8150 | COMPLETED |        |       | DO 7/29/96       |
| 2,4-D (TCLP) SW-846 METHOD 8150                  | ND        | 0.20   | MCG/L | GC8D:99 7/30/96  |
| 2,4,5-TP (SILVEX) (TCLP) SW-846 METHOD 8150      | ND        | 0.20   | MCG/L | GC8D:99 7/30/96  |
| ACID DIGESTION ON TCLP EXTRACTSW-846 METHOD 3010 | COMPLETED |        |       | D-20:148 7/30/96 |
| MERCURY PREPARATION - TCLP SW-846 METHOD 7471    | COMPLETED |        |       | D-20:147 7/29/96 |
| ARSENIC, BY TCLP SW-846 METHOD 6010              | ND        | 0.010  | MG/L  | F-4:106 7/31/96  |
| BARIUM, BY TCLP SW-846 METHOD 6010               | 0.55      | 0.30   | MG/L  | F-4:106 7/31/96  |
| CADMIUM, BY TCLP SW-846 METHOD 6010              | ND        | 0.005  | MG/L  | F-4:106 7/31/96  |
| CHROMIUM, BY TCLP SW-846 METHOD 6010             | ND        | 0.010  | MG/L  | F-4:106 7/31/96  |
| LEAD, BY TCLP SW-846 METHOD 6010                 | ND        | 0.010  | MG/L  | F-4:106 7/31/96  |
| MERCURY, BY TCLP SW-846 METHOD 7471              | ND        | 0.0002 | MG/L  | E-4:96 7/30/96   |
| SELENIUM, BY TCLP SW-846 METHOD 6010             | ND        | 0.050  | MG/L  | F-4:106 7/31/96  |
| SILVER, BY TCLP SW-846 METHOD 6010               | ND        | 0.010  | MG/L  | F-4:106 7/31/96  |

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPB

000004



## CHAIN-OF-CUSTODY RECORD

TRANSFEN 3

Form 0019

**Field Technical Services**

Rev. 08/04

CTM Po. ~~11~~ 024783

172260

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

| PROJECT NAME<br>PAFB                |               | PROJECT LOCATION<br>Plattsburgh, NY        |      |                                         |      | ANALYSIS DESIRED<br>(INDICATE SEPARATE CONTAINERS)         |        |
|-------------------------------------|---------------|--------------------------------------------|------|-----------------------------------------|------|------------------------------------------------------------|--------|
| PROJ. NO.<br>17257                  |               | PROJECT CONTACT<br>Greg Guimond            |      | PROJECT TELEPHONE NO.<br>(518) 562-3631 |      | NUMBER OF CONTAINERS                                       |        |
| CLIENT'S REPRESENTATIVE<br>Joe Szot |               | PROJECT MANAGER/SUPERVISOR<br>Ken Kukkonen |      |                                         |      | REMARKS                                                    |        |
| ITEM NO.                            | SAMPLE NUMBER | DATE                                       | TIME | COMP                                    | GRAB | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND POINT OF SAMPLE) |        |
| 1                                   | CFCP-1        | 7-25-96                                    | 1520 | X                                       |      | Tan Sand from Christian Pit (Clear Fill)                   | 1 x 12 |
| 2                                   |               |                                            |      |                                         |      |                                                            |        |
| 3                                   |               |                                            |      |                                         |      |                                                            |        |
| 4                                   |               |                                            |      |                                         |      |                                                            |        |
| 5                                   |               |                                            |      |                                         |      |                                                            |        |
| 6                                   |               |                                            |      |                                         |      |                                                            |        |
| 7                                   |               |                                            |      |                                         |      |                                                            |        |
| 8                                   |               |                                            |      |                                         |      |                                                            |        |
| 9                                   |               |                                            |      |                                         |      |                                                            |        |
| 10                                  |               |                                            |      |                                         |      |                                                            |        |

| TRANSFER NUMBER | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY               | DATE    | TIME     | REMARKS                                                                            |
|-----------------|-------------|---------------------------|-------------------------------------|---------|----------|------------------------------------------------------------------------------------|
| 1               | 1           | Matthew Jones             | Fcd Ex A - 6/11 #1 =<br>12434101 13 | 7-26-96 | 1530     | - Preserved at 4°C<br>- Temp Blank Included (@ 1.7°C)<br>- 5 day TAT<br>on 7/27/96 |
| 2               |             |                           |                                     |         |          |                                                                                    |
| 3               |             |                           |                                     | 7/27/96 | 11:00 AM |                                                                                    |
| 4               |             |                           |                                     |         |          |                                                                                    |

SAMPLER'S SIGNATURE  
*Matthew Jones*

Soil Sample Collection Log  
Plattsburgh AFB - Project # 17257/17499

Pg. 1 of 2

Date: 7-25-96

Site: CLEAN FILL  
CHRISTIAN PIT

Weather: PLC 75°

Samplers: MJ, MS

| Sample ID     | Time        | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates<br>Ref. Pt. Ref. Pt. |          | Sample Description | # of Bottles |
|---------------|-------------|------------|------------|-------------------|----------------------------------|----------|--------------------|--------------|
| <u>CFCP-1</u> | <u>1520</u> | <u>NA</u>  | <u>C</u>   | <u>1.5-2'</u>     | <u>—</u>                         | <u>—</u> | <u>Tan Sand</u>    | <u>1x12</u>  |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |
|               |             |            |            |                   |                                  |          |                    |              |

Map Attached: Yes No

-Reference Points:

Yes

No

-Head Space Readings:

Yes

No

Sample Type: Screening Confirmation Disposal Characterization

Requested Analysis: VOCs SVOCs Other: Full TCLP

Split sample Collected: Yes No

Laboratory Destination: CTM COC # 172263 Airbill # \_\_\_\_\_

Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs Cooler Temperature: \_\_\_\_\_

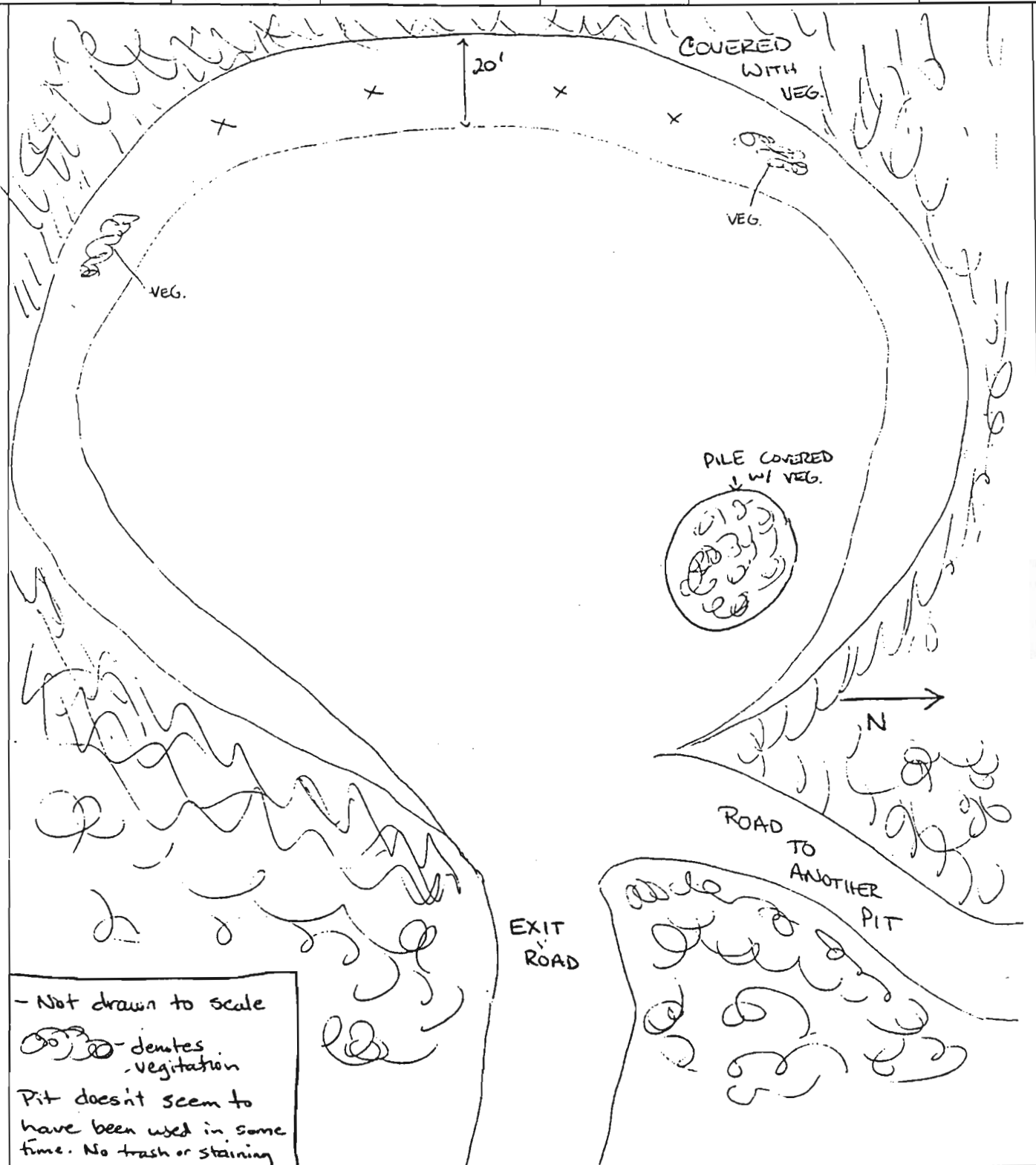
Relinquished by (dd/tt): \_\_\_\_\_ Received by (dd/tt): \_\_\_\_\_





Page 2 of 2

|                               |                 |                                        |                        |                        |      |
|-------------------------------|-----------------|----------------------------------------|------------------------|------------------------|------|
| Proj. No.<br>17499/17257      | Client<br>AFCEE | Location<br>CHRISTIAN PIT - CLEAN FILL | Subject<br>TCLP Sample |                        |      |
| Preparer's<br>Initials<br>MHJ | Date<br>7-25-96 | Reviewer's<br>Initials                 | Date                   | Approver's<br>Initials | Date |



**Sampling & Analysis Site Report  
On-Site Laboratory  
Plattsburgh AFB - Project #17499**

Site: Ormsby Sand Mine, Peru, NY

Date: 07/30/96

Sample Collection:

-A composite sample (CF-719) was collected from the Ormsby Sand Mine in Peru, NY on 07/19/96. The sand from the pit was used for backfill material at many of the sites throughout the base. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

On-Site Analysis:

-No samples were analyzed on-site.

Off-Site Analysis:

-The sample CF-719 was shipped to CTM Laboratories in Latham, NY for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.

# CTM Analytical Laboratories, Ltd.

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Latham, NY 12110  
518-786-7100  
FAX 518-786-7139



GC/MS  
GC  
ICAP  
Sampling Services

Laboratory Analysis Report  
Prepared for: OHM REMEDIATION SERVICES CORP  
CTM Project Number: 9913642  
CTM Task Number: 960723H  
02 AUG 1996

## IMPORTANT - PLEASE NOTE

1. All results are calculated on a dry weight basis unless otherwise specified.
2. PQL = Practical Quantitation Limit.
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
4. ND = Not Detected at or above the PQL.
5. NTP = Non-target peaks (1-5 peaks).  
MNTP = Many non-target peaks (5+ peaks).
6. pH results not performed in the field should be considered estimated since the holding time is 15 minutes from the sampling time.
7. If the samples are collected independently of our laboratory, CTM is not responsible for the possible contamination during the sampling procedure.
8. Methylene chloride and acetone are common laboratory artifacts for volatile organic analysis. Bis-(2-ethyl-hexyl) phthalate and di-n-butylphthalate are common laboratory artifacts for GC/MS semivolatile analysis. Other compounds may also appear as laboratory artifacts for the organic analyses. The above compounds will be flagged as suspected laboratory artifacts if the detected value is less than five (5) times of the PQL in the sample. Acetone will be flagged as a suspected laboratory artifact only up to two and a half (2.5) times of the PQL.
9. If air samples are collected independently of our laboratory, CTM is not responsible for inadequate sample volume for air analysis.

AUTHORIZED FOR RELEASE:

*Christopher Hess*

DATE: 8/2/96

## CERTIFICATIONS:

NYS E.L.A.P. ID NO: 10358

MA: NY052

CT: PH-0551

NJ: 73581

# CTM Analytical Laboratories, Ltd.

PAGE 1

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Tulham, NY 12110  
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FAX 518-786-7139



GC/MS  
GC  
ICAP  
Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

CTM Task #: 960723H

Attention: MR. GREG GUIMOND

Purchase Order Number:  
Date Sampled: 07/19/96 Time: 11:50  
Sampled By : JONES  
Sample Id: CF-719  
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960723H 01  
Date Received: 07/23/96  
Collection Method: COMPOSITE  
Matrix: SOIL

## Parameters and Standard Methodology Used

|                                 |                                  | Results   | PQL | Unit  | Analyst Reference |
|---------------------------------|----------------------------------|-----------|-----|-------|-------------------|
| TCLP-ZERO HEADSPACE EXTRACTIONS | SW-846 METHOD 1311               | COMPLETED |     |       | DO 7/24/96        |
| TCLP VOLATILES                  | SW-846 METHOD 8240               | COMPLETED |     |       |                   |
| PURGE & TRAP EXTRACTION         | SW-846 METHOD 5030               | COMPLETED |     |       |                   |
| BENZENE (TCLP)                  | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| CARBON TETRACHLORIDE (TCLP)     | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| CHLOROBENZENE (TCLP)            | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| CHLOROFORM (TCLP)               | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| 1,4-DICHLOROGENE (TCLP)         | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| 1,2-DICHLOROETHANE (TCLP)       | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| 1,1-DICHLOROETHYLENE (TCLP)     | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| METHYL ETHYL KETONE (TCLP)      | SW-846 METHOD 8240               | ND        | 10  | MCG/L | GCMSCD:85 7/29/96 |
| TETRACHLOROETHYLENE (TCLP)      | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| TRICHLOROETHYLENE (TCLP)        | SW-846 METHOD 8240               | ND        | 5   | MCG/L | GCMSCD:85 7/29/96 |
| VINYL CHLORIDE (TCLP)           | SW-846 METHOD 8240               | ND        | 10  | MCG/L | GCMSCD:85 7/29/96 |
| TCLP EXTRACTION                 | SW-846 METHOD 1311               | COMPLETED |     |       | D-20:140 7/23/96  |
| TCLP ACID EXTRACTABLES          | SW-846 METHOD 8270               | COMPLETED |     |       |                   |
| EXTRACTION FOR TCLP ACID/EXT.   | SW-846 METHOD 8270               | COMPLETED |     |       | DO 7/25/96        |
| O-CRESOL (TCLP)                 | SW-846 METHOD 8270 ACID FRACTION | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| PENTACHLOROPHENOL (TCLP)        | SW-846 METHOD 8270 ACID FRACTION | ND        | 100 | MCG/L | GCMSB:105 7/29/96 |
| 2,4,5-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION | ND        | 100 | MCG/L | GCMSB:105 7/29/96 |
| 2,4,6-TRICHLOROPHENOL (TCLP)    | SW-846 METHOD 8270 ACID FRACTION | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| M & P CRESOL (TCLP)             | SW-846 METHOD 8270 ACID FRACTION | ND        | 40  | MCG/L | GCMSB:105 7/29/96 |
| TCLP BASE/NEUTRALS              | SW-846 METHOD 8270 BASE/NEUTRALS | COMPLETED |     |       |                   |
| EXTRACTION FOR TCLP B/N         | SW-846 METHOD 8270               | COMPLETED |     |       | DO 7/25/96        |
| HEXACHLOROBENZENE (TCLP)        | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| HEXACHLOROBUTADIENE (TCLP)      | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| PYRIDINE (TCLP)                 | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| 2,4-DINITROTOLUENE (TCLP)       | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| HEXACHLOROETHANE (TCLP)         | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| NITROBENZENE (TCLP)             | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| 1,4-DICHLOROGENE (TCLP)         | SW-846 METHOD 8270 BASE/NEUTRALS | ND        | 20  | MCG/L | GCMSB:105 7/29/96 |
| TCLP PESTICIDES/HERBICIDES      | SW-846 METHODS 8080/8150         | COMPLETED |     |       | DO 7/30/96        |

( CONTINUES ON NEXT PAGE )

REMARKS:

R. 00003

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PAGE 2

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Latham, NY 12110  
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GC/MS  
GC  
ICAP  
Sampling Services

OHM REMEDIATION SERVICES CORP  
P.O. BOX 2202  
PLATTSBURGH NY 12901

CTM PROJECT #: 9913642

CTM Task #: 960723H

Attention: MR. GREG GUIMOND

Purchase Order Number:  
Date Sampled: 07/19/96 Time: 11:50  
Sampled By : JONES  
Sample Id: CF-719  
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960723H 01  
Date Received: 07/23/96  
Collection Method: COMPOSITE  
Matrix: SOIL

## Parameters and Standard Methodology Used

| Results | PQL | Unit | Analyst Reference |
|---------|-----|------|-------------------|
|---------|-----|------|-------------------|

( CONTINUED FROM PREVIOUS PAGE )

|                                                   |           |        |                       |
|---------------------------------------------------|-----------|--------|-----------------------|
| EXTRACTION FOR TCLP PESTICIDE SW-846 METHOD 8080  | COMPLETED |        | DO 7/24/96            |
| CHLORDANE (TCLP) SW-846 METHOD 8080               | ND        | 2.0    | MCG/L GC8D:78 7/27/96 |
| ENDRIN (TCLP) SW-846 METHOD 8080                  | ND        | 0.20   | MCG/L GC8D:78 7/27/96 |
| HEPTACHLOR (TCLP) SW-846 METHOD 8080              | ND        | 0.20   | MCG/L GC8D:78 7/27/96 |
| HEPTACHLOR EPOXIDE (TCLP) SW-846 METHOD 8080      | ND        | 0.20   | MCG/L GC8D:78 7/27/96 |
| LINDANE (TCLP) SW-846 METHOD 8080                 | ND        | 0.20   | MCG/L GC8D:78 7/27/96 |
| METHOXYCHLOR (TCLP) SW-846 METHOD 8080            | ND        | 0.20   | MCG/L GC8D:78 7/27/96 |
| TOXAPHENE (TCLP) SW-846 METHOD 8080               | ND        | 4.0    | MCG/L GC8D:78 7/27/96 |
| EXTRACTION FOR TCLP HERBICIDE SW-846 METHOD 8150  | COMPLETED |        | DO 7/28/96            |
| 2,4-D (TCLP) SW-846 METHOD 8150                   | ND        | 0.20   | MCG/L GC8D:79 7/30/96 |
| 2,4,5-TP (SILVEX) (TCLP) SW-846 METHOD 8150       | ND        | 0.20   | MCG/L GC8D:79 7/30/96 |
| ACID DIGESTION ON TCLP EXTRACT SW-846 METHOD 3010 | COMPLETED |        | D-20:141 7/24/96      |
| MERCURY PREPARATION - TCLP SW-846 METHOD 7471     | COMPLETED |        | D-20:143 7/24/96      |
| ARSENIC, BY TCLP SW-846 METHOD 6010               | ND        | 0.010  | MG/L F-4:104 7/25/96  |
| BARIUM, BY TCLP SW-846 METHOD 6010                | 0.50      | 0.26   | MG/L F-4:104 7/25/96  |
| CADMIUM, BY TCLP SW-846 METHOD 6010               | 0.008     | 0.005  | MG/L F-4:104 7/25/96  |
| CHROMIUM, BY TCLP SW-846 METHOD 6010              | ND        | 0.010  | MG/L F-4:104 7/25/96  |
| LEAD, BY TCLP SW-846 METHOD 6010                  | 0.32      | 0.010  | MG/L F-4:104 7/25/96  |
| MERCURY, BY TCLP SW-846 METHOD 7471               | ND        | 0.0002 | MG/L E-4:94 7/25/96   |
| SELENIUM, BY TCLP SW-846 METHOD 6010              | ND        | 0.050  | MG/L F-4:104 7/25/96  |
| SILVER, BY TCLP SW-846 METHOD 6010                | ND        | 0.010  | MG/L F-4:104 7/25/96  |

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

4.00004



OHM Remediation  
Services Corp.

9600723H

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 06/96

172261

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

| PROJECT NAME<br>PAFB                |                                 | PROJECT LOCATION<br>Plattsburgh, NY      |      | ANALYSIS DESIRED<br>(INDICATE<br>SEPARATE<br>CONTAINERS)<br><br>Full Tcup |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
|-------------------------------------|---------------------------------|------------------------------------------|------|---------------------------------------------------------------------------|------|---------------------------------------------------------------|-------------------------|---------|--|--|--|--|--|--|--|--|---------------------------------------|
| PROJ. NO.<br>17257                  | PROJECT CONTACT<br>Greg Guimond | PROJECT TELEPHONE NO.<br>(518) 562-3631  |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| CLIENT'S REPRESENTATIVE<br>Joe Scot |                                 | PROJECT MANAGER/SUPERVISOR<br>No Carrier |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| ITEM NO.                            | SAMPLE NUMBER                   | DATE                                     | TIME | COMP                                                                      | GRAB | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND<br>POINT OF SAMPLE) | NUMBER<br>OF CONTAINERS | REMARKS |  |  |  |  |  |  |  |  |                                       |
| 1                                   | CF-3719                         | 7-19<br>96                               | 1150 | X                                                                         |      | Gold Sand                                                     | 1x12                    | X       |  |  |  |  |  |  |  |  | Chain Fill from<br>Orensby Stock Pile |
| 2                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 3                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 4                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 5                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 6                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 7                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 8                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 9                                   |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |
| 10                                  |                                 |                                          |      |                                                                           |      |                                                               |                         |         |  |  |  |  |  |  |  |  |                                       |

| TRANSFER<br>NUMBER | ITEM<br>NUMBER | TRANSFERS<br>RELINQUISHED BY | TRANSFERS<br>ACCEPTED BY       | DATE       | TIME | REMARKS                              |
|--------------------|----------------|------------------------------|--------------------------------|------------|------|--------------------------------------|
| 1                  | 1              | Matthew Jones                | Fed Ex Airbill #<br>1243409941 | 7-22<br>96 | 1530 | - Preserved at 4°C<br>- 5 day TAT    |
| 2                  |                |                              |                                |            |      |                                      |
| 3                  |                |                              |                                |            |      |                                      |
| 4                  |                |                              |                                |            |      | SAMPLET'S SIGNATURE<br>Matthew Jones |

Soil Sample Collection Log  
Plattsburgh AFB - Project # 17257/17499

Pg. 1 of 2

Date: 7-14-96

Site: Penn Clean Fill

Weather: Cloudy/75

Samplers: MJ/JK

| Sample ID | Time | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates<br>Ref. Pt. Ref. Pt. |  | Sample Description | # of Bottles |
|-----------|------|------------|------------|-------------------|----------------------------------|--|--------------------|--------------|
| CF-719    | 1150 | NA         | C          | 2'                |                                  |  | Golden Sand        | 1x12         |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |
|           |      |            |            |                   |                                  |  |                    |              |

Map Attached: Yes No

-Reference Points: Yes

No

-Head Space Readings: Yes

No

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis: VOCs SVOCs Other: Full TCLP

Split sample Collected: Yes No

Laboratory Destination: \_\_\_\_\_ COC # \_\_\_\_\_ Airbill # \_\_\_\_\_

Duplicate Collected: Yes No

Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs Cooler Temperature: \_\_\_\_\_

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





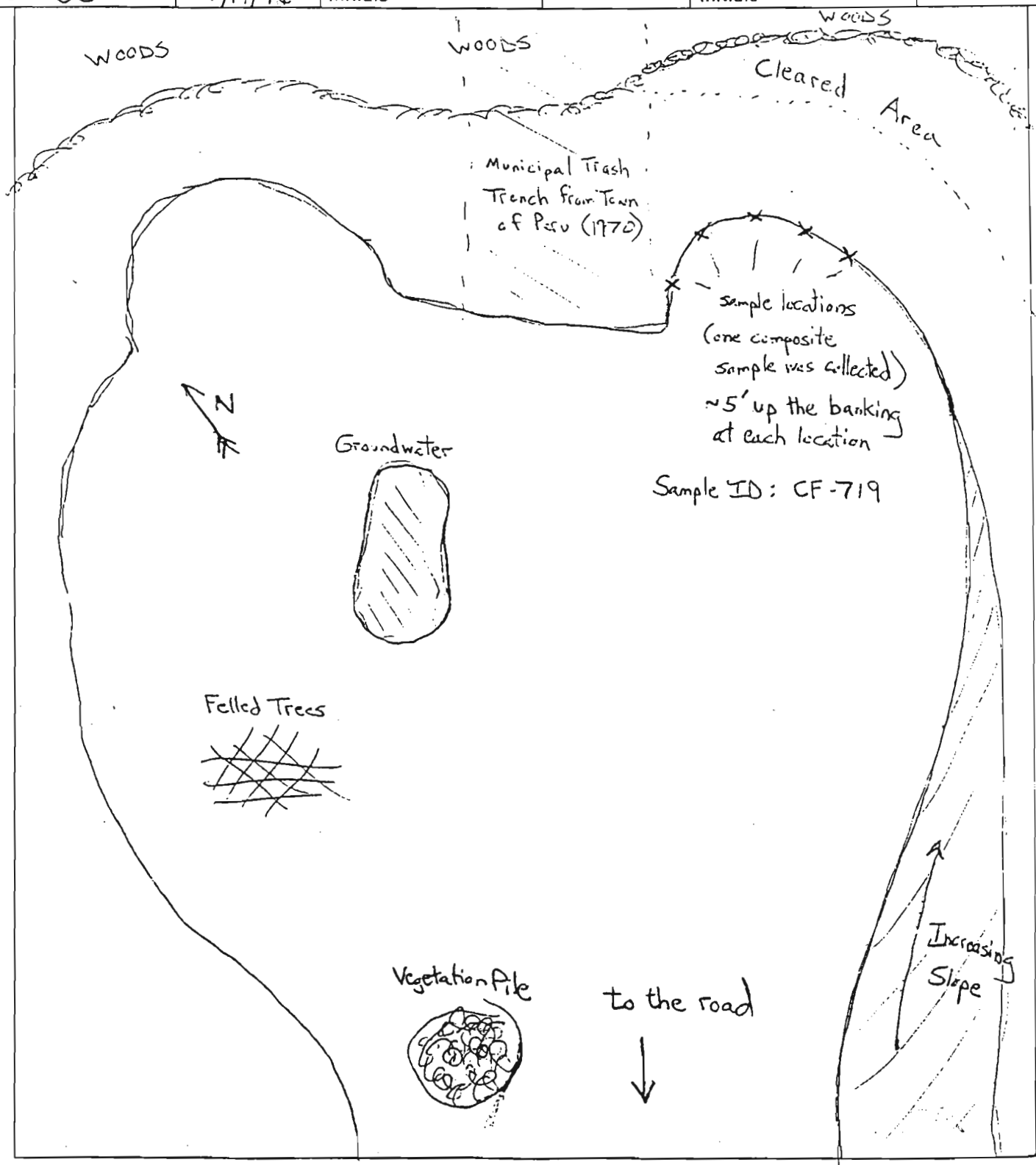
OHM Remediation  
Services Corp.

# COMPUTATION SHEET

Form No. 0048  
Midwest Tech. Servs.  
Rev. 08 89

Page \_\_\_\_\_ of \_\_\_\_\_

|                              |                 |                              |                               |
|------------------------------|-----------------|------------------------------|-------------------------------|
| Proj. No.<br>17257           | Client<br>AFCEE | Location<br>Ormsby Sand Mine | Subject<br>Clean Fill Testing |
| Preparer's<br>Initials<br>GG | Date<br>7/19/96 | Reviewer's<br>Initials       | Date                          |
| Approver's<br>Initials       |                 | Date                         |                               |



**Soil Sample Collection Log**  
**Plattsburgh AFB - Project # 17257/17499**

Pg. 1 of 2

Date: 6/25/96

Site: Plattsburgh Quarries/  
Morrisville Ad Cock Pit

Weather: Rain 165°

Samplers: MT

| Sample ID    | Time | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates Ref. Pt. | Coordinates Ref. Pt. | Sample Description | # of Bottles |
|--------------|------|------------|------------|-------------------|----------------------|----------------------|--------------------|--------------|
| ADCOX PIT-01 | 1130 |            | C          | 1.5-2'            |                      |                      | Golden Brown Sand  | 1 x 12       |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |
|              |      |            |            |                   |                      |                      |                    |              |

Map Attached: Yes No

-Reference Points: Yes No  
 -Head Space Readings: Yes No

Sample Type: Screening Confirmation Disposal/Characterization Clean Fill Screening  
 Requested Analysis: VOCs SVOCs Other: Full TCLP  
 Split sample Collected: Yes NY No Adirondack Labs  
 Laboratory Destination: Champlain COC # 172233 Airbill # N/A  
 Duplicate Collected: Yes No Rinsate Collected: Yes No

**On-Site Laboratory Chain of Custody / Request for Analysis**

Requested Analysis: VOCs SVOCs Cooler Temperature: \_\_\_\_\_  
 Relinquished by (dd/tt): \_\_\_\_\_ Received by (dd/tt): \_\_\_\_\_



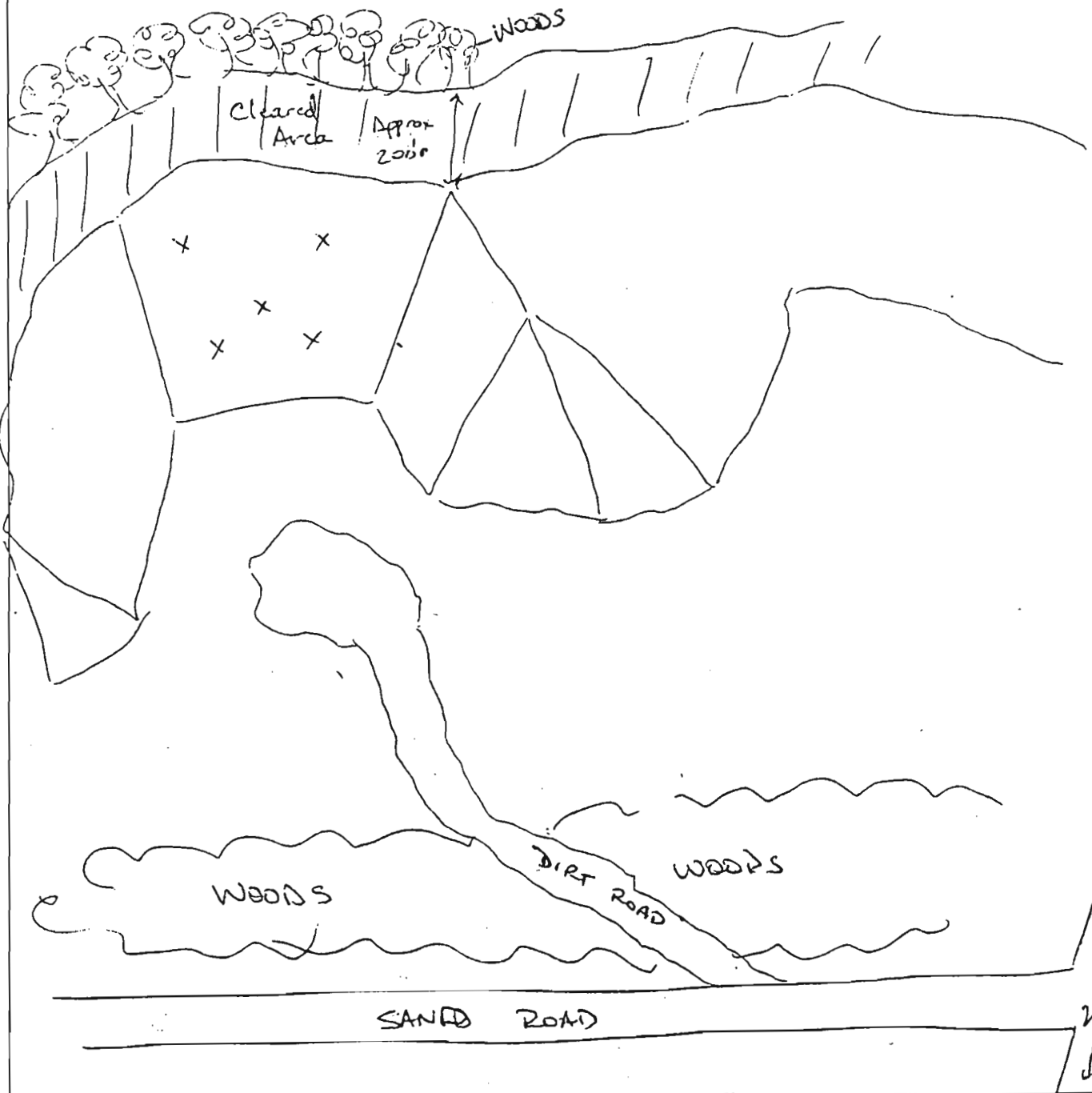
Page \_\_\_\_\_ of \_\_\_\_\_

|                              |                 |                                       |                              |
|------------------------------|-----------------|---------------------------------------|------------------------------|
| Proj. No.                    | Client<br>AFCEE | Location<br>Morrisonville Ad Cock Pit | Subject<br>Clean Fill Sample |
| Preparer's<br>Initials<br>MS | Date<br>6-25-96 | Reviewer's<br>Initials                | Date                         |
| Approver's<br>Initials       |                 | Date                                  |                              |

X - denotes specific sample location for composite ADCOCKPIT-1

Soil pile approx 60' high

No trash, debris or stains in or on top of soil pile



# CHAIN-OF-CUSTODY RECORD

TRANSFER 1

Form 0019  
Field Technical Services  
Rev. 08/89

172233

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|                                            |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
|--------------------------------------------|----------------------------------------|------------------------------------------------|------------------------------------------------|----------------------|-----------------------------------------------------------------------|----------------|--------|--|--|--|--|--|--|--|------|------|------------------------------------------------------------|---------|--|--|
| PROJECT NAME<br><b>PAFB</b>                |                                        | PROJECT LOCATION<br><b>Plattsburgh, NY</b>     |                                                | NUMBER OF CONTAINERS | ANALYSIS DESIRED<br>(INDICATE SEPARATE CONTAINERS)<br><i>Full TAP</i> |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| PROJ. NO.<br><b>17257</b>                  | PROJECT CONTACT<br><b>Greg Guimond</b> |                                                | PROJECT TELEPHONE NO.<br><b>(518) 562-3534</b> |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| CLIENT'S REPRESENTATIVE<br><b>Joe Szot</b> |                                        | PROJECT MANAGER/SUPERVISOR<br><b>Mo Comier</b> |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| ITEM NO.                                   | SAMPLE NUMBER                          | DATE                                           | TIME                                           |                      |                                                                       |                |        |  |  |  |  |  |  |  | COMP | GRAB | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND POINT OF SAMPLE) | REMARKS |  |  |
| 1                                          | ADCOX Pit-01                           | 6-25-96                                        | 1130                                           | X                    |                                                                       | Sand Composite | 1x12 X |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 2                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 3                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 4                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 5                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 6                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 7                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 8                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 9                                          |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |
| 10                                         |                                        |                                                |                                                |                      |                                                                       |                |        |  |  |  |  |  |  |  |      |      |                                                            |         |  |  |

| TRANSFER NUMBER | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE    | TIME    | REMARKS                                     |
|-----------------|-------------|---------------------------|-----------------------|---------|---------|---------------------------------------------|
| 1               | 1           | Matthew Jones             | Paul R. Hays          | 6-25-96 | 6:25 PM | - 3 day TAT                                 |
| 2               |             |                           |                       |         |         |                                             |
| 3               |             |                           |                       |         |         |                                             |
| 4               |             |                           |                       |         |         | SAMPLER'S SIGNATURE<br><i>Matthew Jones</i> |





Page \_\_\_\_\_ of \_\_\_\_\_

|                     |        |                     |         |                     |      |
|---------------------|--------|---------------------|---------|---------------------|------|
| Proj. No.           | Client | Location            | Subject |                     |      |
| Preparer's Initials | Date   | Reviewer's Initials | Date    | Approver's Initials | Date |

David Bushey, Chumkin Laboratory

Re: Full TCLP  
(soil, fastest TAT)

- Please fax the results to us ASAP. You can give our fax # to the sub contracted lab if that would be faster.

FAX: 562-5435

For billing purposes you can mail the invoice to

Dave Voigt  
OHM Corp. / PAFB

P.O. Box 2202

Plattsburgh, NY 12901-0268

or you can mail the invoice to me with the hard copy of the results at the same address (Greg Guimond).

If you have any questions please call

Tel. 562-3923

Thanks,

*Greg Guimond*

**Sampling & Analysis Site Report  
On-Site Laboratory  
Plattsburgh AFB - Project #17499**

Site: Ormsby Sand Mine, Peru, NY

Date: 06/10/96

Sample Collection:

-A composite sample (CF-002A) was collected from the Ormsby Sand Mine in Peru, NY on 06/04/96. The sand from the pit was used for backfill material at many of the sites throughout the base. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

On-Site Analysis:

-No samples were analyzed on-site.

Off-Site Analysis:

-The sample CF-002A was shipped to OHM Analytical Division (OHMAD) in Findlay, OH for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.



# DATA SUMMARY REPORT

DATE: 06/10/96

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CF-002A  
ASC Sample Number: JP9050  
Sample Date: 960604  
Facility Code: 017257A

| Parameters | Units |
|------------|-------|
|------------|-------|

## CV10 Wet Chemistry

|               |   |      |
|---------------|---|------|
| Solids, Total | % | 95.4 |
|---------------|---|------|

Sample Point ID: CF-002A  
ASC Sample Number: JP9050  
Sample Date: 960604  
Facility Code: 017257A

| Parameters | Units |
|------------|-------|
|------------|-------|

## GS52 TCLP Leachate Herbicide

|                   |      |       |
|-------------------|------|-------|
| 2,4-D             | mg/L | <.250 |
| 2,4,5-TP (Silvex) | mg/L | <.250 |

Sample Point ID: CF-002A  
ASC Sample Number: JP9050  
Sample Date: 960604  
Facility Code: 017257A

| Parameters | Units |
|------------|-------|
|------------|-------|

## GS54 TCLP Leachate Pesticide

|                     |      |       |
|---------------------|------|-------|
| Chlordane           | mg/L | <.020 |
| Endrin              | mg/L | <.002 |
| Heptachlor          | mg/L | <.002 |
| Heptachlor epoxide  | mg/L | <.002 |
| Gamma-BHC (Lindane) | mg/L | <.002 |
| Methoxychlor        | ug/L | <.002 |
| Toxaphene           | ug/L | <.040 |

# DATA SUMMARY REPORT

DATE: 06/10/96

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CF-002A  
 ASC Sample Number: JP9050  
 Sample Date: 960604  
 Facility Code: 017257A

Parameters Units

## ME52 TCLP Leachate Metals

|          |      |        |
|----------|------|--------|
| Arsenic  | mg/L | <.100  |
| Barium   | mg/L | .660   |
| Cadmium  | mg/L | <.005  |
| Chromium | mg/L | <.020  |
| Lead     | mg/L | <.100  |
| Mercury  | mg/L | <.0001 |
| Selenium | mg/L | <.100  |
| Silver   | mg/L | <.020  |

Sample Point ID: CF-002A  
 ASC Sample Number: JP9050  
 Sample Date: 960604  
 Facility Code: 017257A

Parameters Units

## MS52 GCMS TCLP Leachate BNA

|                       |      |       |
|-----------------------|------|-------|
| 2,4-Dinitrotoluene    | mg/L | <.100 |
| Hexachlorobenzene     | mg/L | <.100 |
| Hexachloroethane      | mg/L | <.100 |
| Hexachlorobutadiene   | mg/L | <.100 |
| 2-Methylphenol        | mg/L | <.100 |
| 4-Methylphenol        | mg/L | <.100 |
| Nitrobenzene          | mg/L | <.100 |
| Pentachlorophenol     | mg/L | <.100 |
| Pyridine              | mg/L | <.100 |
| 2,4,5-Trichlorophenol | mg/L | <.100 |
| 2,4,6-Trichlorophenol | mg/L | <.100 |

# DATA SUMMARY REPORT

DATE: 06/10/96

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CF-002A  
ASC Sample Number: JP9050  
Sample Date: 960604  
Facility Code: 017257A

Parameters Units

## V50 ZHE Leachate Volatiles

|                      |      |       |
|----------------------|------|-------|
| Benzene              | mg/L | <.125 |
| 2-Butanone           | mg/L | <.125 |
| Carbon tetrachloride | mg/L | <.125 |
| Chlorobenzene        | mg/L | <.125 |
| Chloroform           | mg/L | <.125 |
| 1,4-Dichlorobenzene  | mg/L | <.125 |
| 1,2-Dichloroethane   | mg/L | <.125 |
| 1,1-Dichloroethene   | mg/L | <.125 |
| Tetrachloroethene    | mg/L | <.125 |
| Trichloroethene      | mg/L | <.125 |
| Vinyl chloride       | mg/L | <.125 |



Olin Remediation  
Services Corp.

# CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019

Field Technical Services

Rev. 08/89

LP 42685

174046

O.H. MATERIALS CORP.

P.O. BOX 551

FINDLAY, OH 45839-0551

419-423-3526

| PROJECT NAME            |                 | PROJECT LOCATION             |      | ANALYSIS DESIRED<br>(INDICATE<br>SEPARATE<br>CONTAINERS) |      | NUMBER<br>OF CONTAINERS                                       |      | REMARKS                                                    |   |
|-------------------------|-----------------|------------------------------|------|----------------------------------------------------------|------|---------------------------------------------------------------|------|------------------------------------------------------------|---|
| Plattsburgh AFB         |                 | Plattsburgh, NY              |      |                                                          |      |                                                               |      |                                                            |   |
| PROJ. NO.               | PROJECT CONTACT | PROJECT TELEPHONE NO.        |      |                                                          |      |                                                               |      |                                                            |   |
| 17257                   | Greg Guimond    | (518) 562-3923               |      |                                                          |      |                                                               |      |                                                            |   |
| CLIENT'S REPRESENTATIVE |                 | PROJECT MANAGER/SUPERVISOR   |      |                                                          |      |                                                               |      |                                                            |   |
| Dave Farnsworth / AFCEE |                 | Ken Kukkonen                 |      |                                                          |      |                                                               |      |                                                            |   |
| ITEM NO.                | SAMPLE NUMBER   | DATE                         | TIME | COMP                                                     | GRAB | SAMPLE DESCRIPTION<br>(INCLUDE MATRIX AND<br>POINT OF SAMPLE) |      |                                                            |   |
| 1                       | CF-002A         | 6/14/96                      | 0840 | X                                                        |      | Clean fill from Crosby Sand Mine                              |      | 1x1L                                                       | X |
| 2                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 3                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 4                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 5                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 6                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 7                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 8                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 9                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 10                      |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| TRANSFER<br>NUMBER      | ITEM<br>NUMBER  | TRANSFERS<br>RELINQUISHED BY |      | TRANSFERS<br>ACCEPTED BY                                 |      | DATE                                                          | TIME | REMARKS                                                    |   |
| 1                       | 1               | A. Hummer #7379              |      | FedEx Airbill #<br>1362656430                            |      | 6/14/96                                                       | 1600 | - 3 day TAT<br>- Preserved at 4'C<br>- Temp Blank included |   |
| 2                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 3                       |                 |                              |      |                                                          |      |                                                               |      |                                                            |   |
| 4                       |                 |                              |      |                                                          |      |                                                               |      | SAMPLER'S SIGNATURE<br>A. Hummer                           |   |

**Soil Sample Collection Log**  
**Plattsburgh AFB - Project # 17257/17499**

Date: 6/4/96

Site: Ormsby Sand Mine, Peru, NY

Pg. 1 of 2

Weather: Clear, 75°F

Samplers: GG, JD

| Sample ID | Time | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates Ref. Pt. | Coordinates Ref. Pt. | Sample Description | # of Bottles |
|-----------|------|------------|------------|-------------------|----------------------|----------------------|--------------------|--------------|
| CF-002A   | 0840 |            | C          | -                 |                      |                      | Gold Sand          | 1x/L         |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |
|           |      |            |            |                   |                      |                      |                    |              |

Map Attached: ☒ Yes ☐ No

-Reference Points:

Yes

☒ No  
☐ No

-Head Space Readings:

Yes

Sample Type: Screening Confirmation Disposal/Characterization

Requested Analysis: VOCs SVOCs Other: Full TCLP

Split sample Collected: Yes ☒ No

Laboratory Destination: OHMAD COC # 174046 Airbill # 1362056430

Duplicate Collected: Yes ☒ No

Rinsate Collected: Yes ☒ No

**On-Site Laboratory Chain of Custody / Request for Analysis**

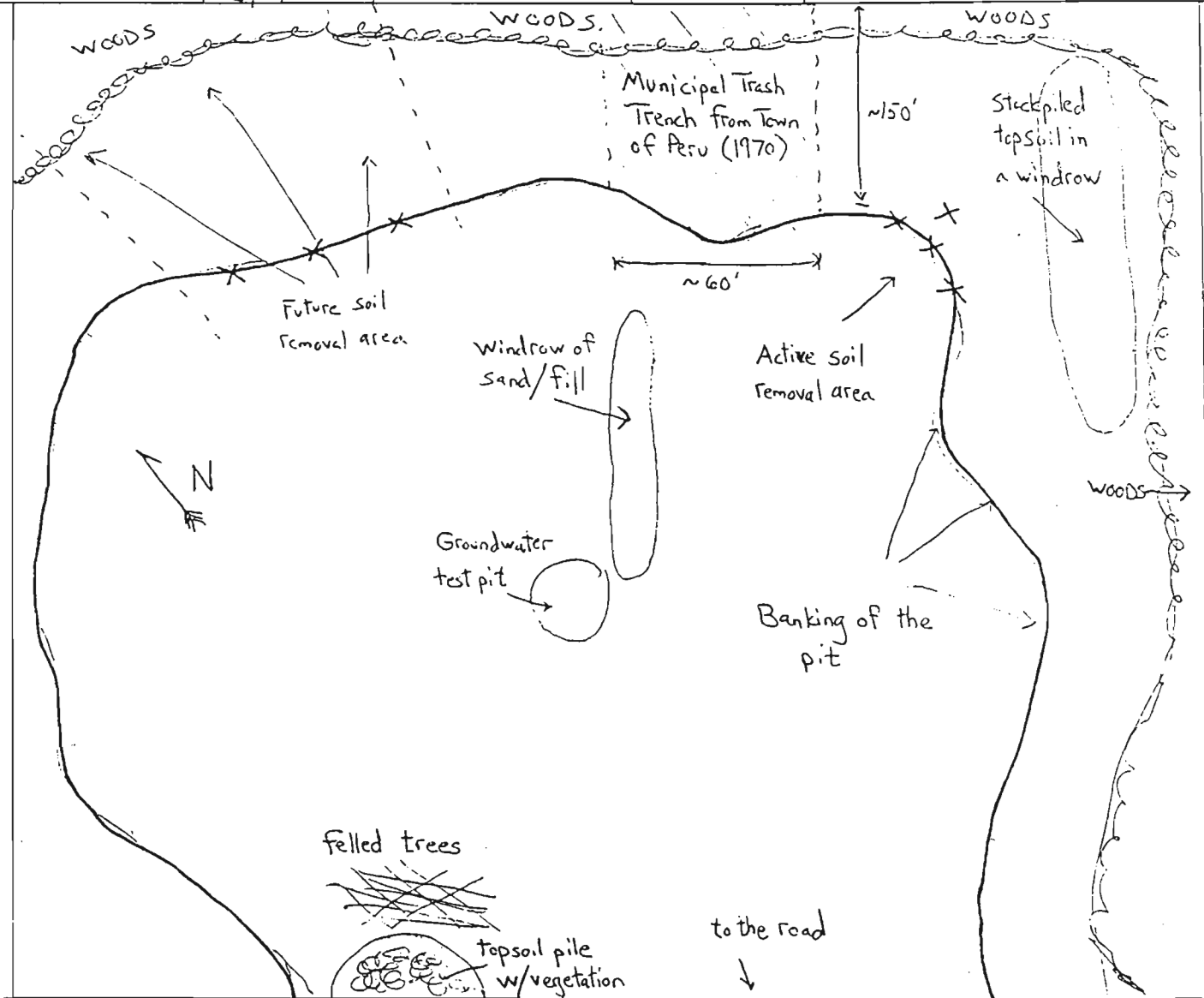
Requested Analysis: VOCs SVOCs Cooler Temperature: \_\_\_\_\_

Relinquished by (dd/lt): H. Heumann 6/4/96 Received by (dd/lt): \_\_\_\_\_



Page \_\_\_\_\_ of \_\_\_\_\_

|                              |                 |                              |                               |
|------------------------------|-----------------|------------------------------|-------------------------------|
| Proj. No.<br>17257           | Client<br>AFCEE | Location<br>Ornsby Sand Mine | Subject<br>Clean Fill Testing |
| Preparer's<br>Initials<br>GG | Date<br>6/3/96  | Reviewer's<br>Initials       | Date                          |
| Approver's<br>Initials       |                 | Date                         |                               |



Comments: Not to scale

edge of woods

edge of the banking around the pit

A 7 point composite was collected from the 2 areas where backfill will be removed. One discrete sample location was taken from the surface, the others were collected from ~5' up the banking of the pit.

X - discrete sample location

**Sampling & Analysis Site Report  
On-Site Laboratory  
Plattsburgh AFB - Project #17499**

Site: Ormsby Sand Mine, Peru, NY

Date: 12/05/95

Sample Collection:

-A composite sample (CF-001) was collected from the Ormsby Sand Mine in Peru, NY on 11/29/96. The sand from the pit was used for backfill material at many of the sites throughout the base. The sample was collected to confirm that the material is free of contaminants.

-A map of the pit and the sample locations is included with this report.

On-Site Analysis:

-No samples were analyzed on-site.

Off-Site Analysis:

-The sample CF-001 was shipped to OHM Analytical Division (OHMAD) in Findlay, OH for a full TCLP analysis. The analysis results are included with this report.

-The sample results were compared to the Hazardous Waste Regulatory Levels for Toxicity Characteristic. None of the constituents of concern, if detected, exceeded the regulatory levels. A copy of the regulatory levels is included with this report.

# DATA SUMMARY REPORT

DATE: 12/05/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CF-001  
 ASC Sample Number: JP0872  
 Sample Date: 951129  
 Facility Code: 017499A

| Parameters | Units |
|------------|-------|
|------------|-------|

## Conventional Data (CV10)

|               |   |      |
|---------------|---|------|
| Solids, Total | % | 93.1 |
|---------------|---|------|

Sample Point ID: CF-001  
 ASC Sample Number: JP0872  
 Sample Date: 951129  
 Facility Code: 017499A

| Parameters | Units |
|------------|-------|
|------------|-------|

## RCRA TCLP Leachate Herbicide Analysis, GC, (GS52)

|                   |      |       |
|-------------------|------|-------|
| 2,4-D             | mg/L | <.250 |
| 2,4,5-TP (Silvex) | mg/L | <.250 |

Sample Point ID: CF-001  
 ASC Sample Number: JP0872  
 Sample Date: 951129  
 Facility Code: 017499A

| Parameters | Units |
|------------|-------|
|------------|-------|

## RCRA TCLP Leachate Pesticide Analysis, GC, (GS54)

|                     |      |       |
|---------------------|------|-------|
| Endrin              | mg/L | <.002 |
| Heptachlor          | mg/L | <.002 |
| Heptachlor epoxide  | mg/L | <.002 |
| Methoxychlor        | mg/L | <.002 |
| Gamma-BHC (Lindane) | mg/L | <.002 |
| alpha-Chlordane     | mg/L | <.002 |
| gamma-Chlordane     | mg/L | <.002 |



# DATA SUMMARY REPORT

DATE: 12/05/95

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CF-001  
 ASC Sample Number: JP0872  
 Sample Date: 951129  
 Facility Code: 017499A

Parameters Units

## RCRA TCLP Leachate Metals Analysis, (ME52)

|          |      |        |
|----------|------|--------|
| Arsenic  | mg/L | <.100  |
| Barium   | mg/L | .411   |
| Cadmium  | mg/L | <.005  |
| Chromium | mg/L | <.020  |
| Lead     | mg/L | <.100  |
| Mercury  | mg/L | <.0001 |
| Selenium | mg/L | <.100  |
| Silver   | mg/L | <.020  |

Sample Point ID: CF-001  
 ASC Sample Number: JP0872  
 Sample Date: 951129  
 Facility Code: 017499A

Parameters Units

## RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)

|                       |      |       |
|-----------------------|------|-------|
| 2,4-Dinitrotoluene    | mg/L | <.100 |
| Hexachlorobenzene     | mg/L | <.100 |
| Hexachloroethane      | mg/L | <.100 |
| Hexachlorobutadiene   | mg/L | <.100 |
| 2-Methylphenol        | mg/L | <.100 |
| 4-Methylphenol        | mg/L | <.100 |
| Nitrobenzene          | mg/L | <.100 |
| Pentachlorophenol     | mg/L | <.100 |
| Pyridine              | mg/L | <.100 |
| 2,4,5-Trichlorophenol | mg/L | <.100 |
| 2,4,6-Trichlorophenol | mg/L | <.100 |

# DATA SUMMARY REPORT

DATE: 12/05/95

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CF-001  
ASC Sample Number: JP0872  
Sample Date: 951129  
Facility Code: 017499A

| Parameters | Units |
|------------|-------|
|------------|-------|

## RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)

|                      |      |       |
|----------------------|------|-------|
| Benzene              | mg/L | <.125 |
| Carbon tetrachloride | mg/L | <.125 |
| Chlorobenzene        | mg/L | <.125 |
| Chloroform           | mg/L | <.125 |
| 1,4-Dichlorobenzene  | mg/L | <.125 |
| 1,2-Dichloroethane   | mg/L | <.125 |
| 1,1-Dichloroethylene | mg/L | <.125 |
| Methyl ethyl ketone  | mg/L | <.125 |
| Tetrachloroethylene  | mg/L | <.125 |
| Trichloroethylene    | mg/L | <.125 |
| Vinyl chloride       | mg/L | <.125 |



LAB COPY

Form 0019

### Field Technical Services

Rev. 08/89

## CHAIN-OF-CUSTODY RECORD

161982

O.H. MATERIALS CORP.

P.O. BOX 551

FINDLAY, OH 45839-0551

419-423-3526

[illegible]

| TRANSFER<br>NUMBER | ITEM<br>NUMBER | TRANSFERS<br>RELINQUISHED BY | TRANSFERS<br>ACCEPTED BY      | DATE        | TIME | REMARKS                              |
|--------------------|----------------|------------------------------|-------------------------------|-------------|------|--------------------------------------|
| 1                  | 1              | Matthew Jones                | Fed Ex Arbill #<br>7588873246 | 11-29<br>95 | 1530 | - 3 day TAT<br>- Temp Blank included |
| 2                  |                |                              |                               |             |      |                                      |
| 3                  |                |                              |                               |             |      |                                      |
| 4                  |                |                              |                               |             |      | SAMPLER'S SIGNATURE<br>Matthew Jones |

**Soil Sample Collection Log**  
**Plattsburgh AFB - Project # 17257/17499**

Pg. 1 of 2

Date: 11/29/95

Site Name: Clean Fill - Penn NY

Weather: Clear / Cold

Samplers: LS

| Sample ID Number | Time | Comp/ Grab | Sample Depth (ft) | Coordinates |          | Sample Description                    | # of Bottles   |
|------------------|------|------------|-------------------|-------------|----------|---------------------------------------|----------------|
|                  |      |            |                   | Ref. Pt.    | Ref. Pt. |                                       |                |
| CF-001           | 1530 | C          | 0-6"              | N/A         | N/A      | Clean Fill from Stockyard in Penn, NY | 1x1L<br>2x40mL |
|                  |      |            |                   |             |          |                                       |                |
|                  |      |            |                   |             |          |                                       |                |
|                  |      |            |                   |             |          |                                       |                |
|                  |      |            |                   |             |          |                                       |                |
|                  |      |            |                   |             |          |                                       |                |
|                  |      |            |                   |             |          |                                       |                |

Ref. Pt.   : N/A

Ref. Pt.   : N/A

Map Attached: (Yes) No

Sample Type:    Screening    Confirmation    Disposal/Characterization

Split Sample Collected:    Yes    (No)

Laboratory Destination: ASC    COC # 161982    Airbill # 7588873246 Fed Ex #

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

**On-site Laboratory Chain of Custody/Request for Analysis**

Requested Testing:    VOCs    SVOCs    Other Full TCLP

Relinquished by (dd/tt): Matthew Jones 11/29/95    Received by (dd/tt):   

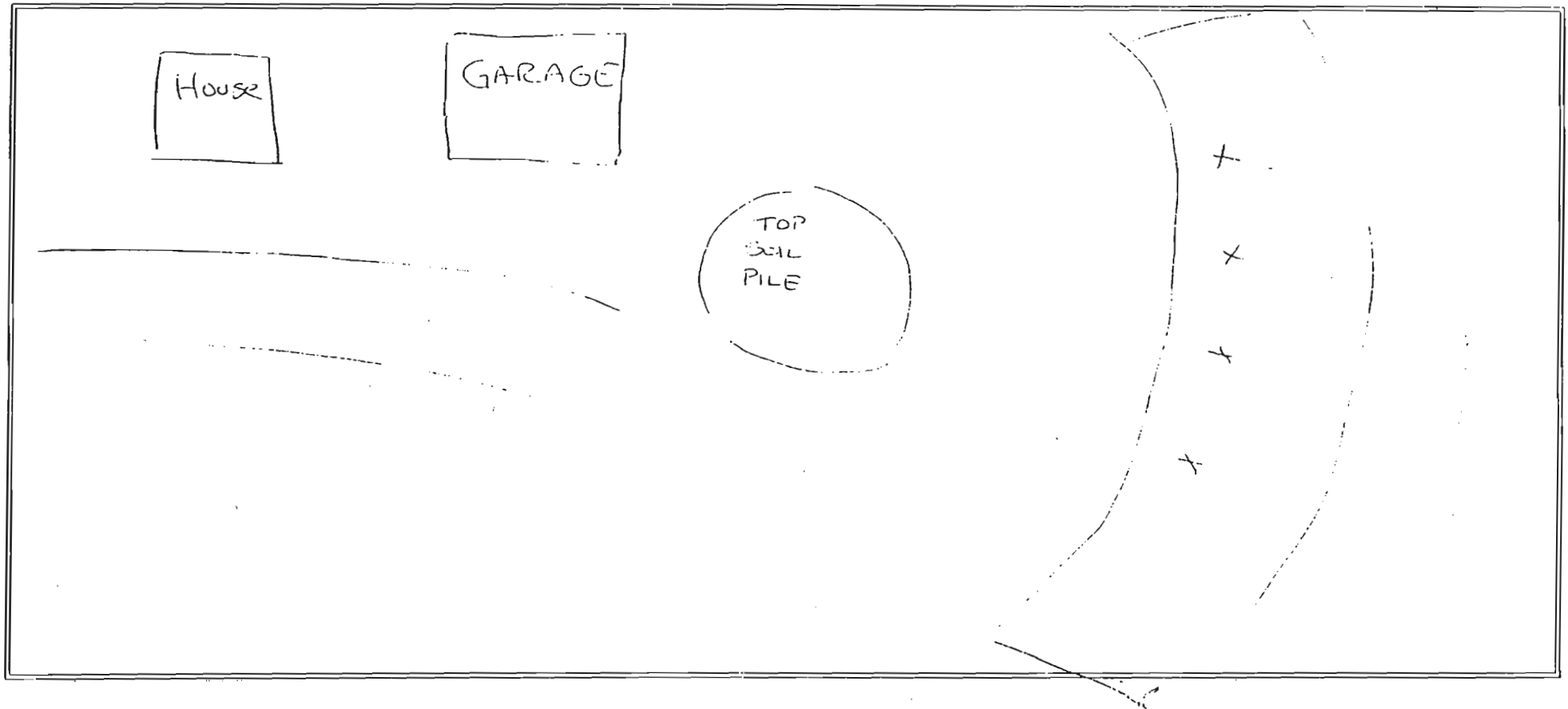
Relinquished by (dd/tt):       Received by (dd/tt):

Sample Location Map  
Plattsburgh AFB - Project #17257/17499

Date: 11/29/95

Pg. 2 of 2

Site Name: Clean Fill Stockyard - Run NY



Comments/Observations: x - indicates unique sampling location for composite  
- Samples taken 1.5-2' into soil pile

No visible stains or odors at soil pile

Prepared by: M. Jones

# CTM Analytical Laboratories, Ltd.

PAGE 9

15 Century Hill Drive  
P.O. Box 727  
Latham, NY 12110  
518-786-7100  
FAX 518-786-7139



GC/MS  
GC  
ICAP  
Sampling Services

OHM REMEDIATION SERVICES

P.O. BOX 2202

PLATTSBURGH NY 12901

CTM PROJECT #: 96.06198

CTM Task #: 960524C

Attention: MR. JACOB DUNNELL

Purchase Order Number: 102-33-18

Date Sampled: 05/23/96 Time: 09:50

Sampled By : GUIMOND

Sample Id: TS-1

Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960524C 05

Date Received: 05/24/96

Collection Method: COMPOSITE

Matrix: SOIL

## Parameters and Standard Methodology Used

|                                |                    |
|--------------------------------|--------------------|
| TCLP EXTRACTION                | SW-846 METHOD 1311 |
| ACID DIGESTION ON TCLP EXTRACT | SW-846 METHOD 3010 |
| MERCURY PREPARATION - TCLP     | SW-846 METHOD 7471 |
| ARSENIC, BY TCLP               | SW-846 METHOD 6010 |
| BARIUM, BY TCLP                | SW-846 METHOD 6010 |
| CADMIUM, BY TCLP               | SW-846 METHOD 6010 |
| CHROMIUM, BY TCLP              | SW-846 METHOD 6010 |
| LEAD, BY TCLP                  | SW-846 METHOD 6010 |
| MERCURY, BY TCLP               | SW-846 METHOD 7471 |
| SELENIUM, BY TCLP              | SW-846 METHOD 6010 |
| SILVER, BY TCLP                | SW-846 METHOD 6010 |

| Results   | PQL    | Unit | Analyst Reference |
|-----------|--------|------|-------------------|
| COMPLETED |        |      | D-20:71 5/28/96   |
| COMPLETED |        |      | D-20:73 5/29/96   |
| COMPLETED |        |      | D-20:75 5/30/96   |
| 0.011     | 0.010  | MG/L | F-4:57 5/30/96    |
| 1.4       | 0.50   | MG/L | F-4:57 5/30/96    |
| ND        | 0.005  | MG/L | F-4:57 5/30/96    |
| ND        | 0.010  | MG/L | F-4:57 5/30/96    |
| 0.010     | 0.010  | MG/L | F-4:57 5/30/96    |
| ND        | 0.0002 | MG/L | E-4:65 5/31/96    |
| ND        | 0.050  | MG/L | F-4:57 5/30/96    |
| ND        | 0.010  | MG/L | F-4:59 5/31/96    |

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPB

F-00011

Soil Sample Collection Log  
Plattsburgh AFB - Project # 17257 17499

Pg. 1 of 2

Date: 05/23/96

Site: Gonya Farm

Weather: clear, 45

Samplers: J. Duanell, M. Quinlan

| Sample ID   | Time         | PID Screen | Comp/ Grab | Sample Depth (ft) | Coordinates Ref. Pt. | Coordinates Ref. Pt. | Sample Description           | # of Bottles     |
|-------------|--------------|------------|------------|-------------------|----------------------|----------------------|------------------------------|------------------|
| <u>TS-1</u> | <u>09:50</u> | <u>N/A</u> | <u>C</u>   | <u>6-12"</u>      |                      |                      | <u>Organic Sandy Topsoil</u> | <u>1 x 1 Ltr</u> |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |
|             |              |            |            |                   |                      |                      |                              |                  |

Ref. Pt. \_\_\_\_\_: N/A

Ref. Pt. \_\_\_\_\_: N/A

Map Attached: Yes No

Sample Type: Screening Confirmation Disposal/Characterization other: TCLP Metals

Split sample Collected: Yes No

Laboratory Destination: CTM COC # 172480 Airbill # 1362056850

Duplicate Collected: Yes No Rinsate Collected: Yes No

On-Site Laboratory Chain of Custody / Request for Analysis

Requested Analysis: VOCs SVOCs Other

Relinquished by (dd/mm): \_\_\_\_\_ Received by (dd/mm): \_\_\_\_\_

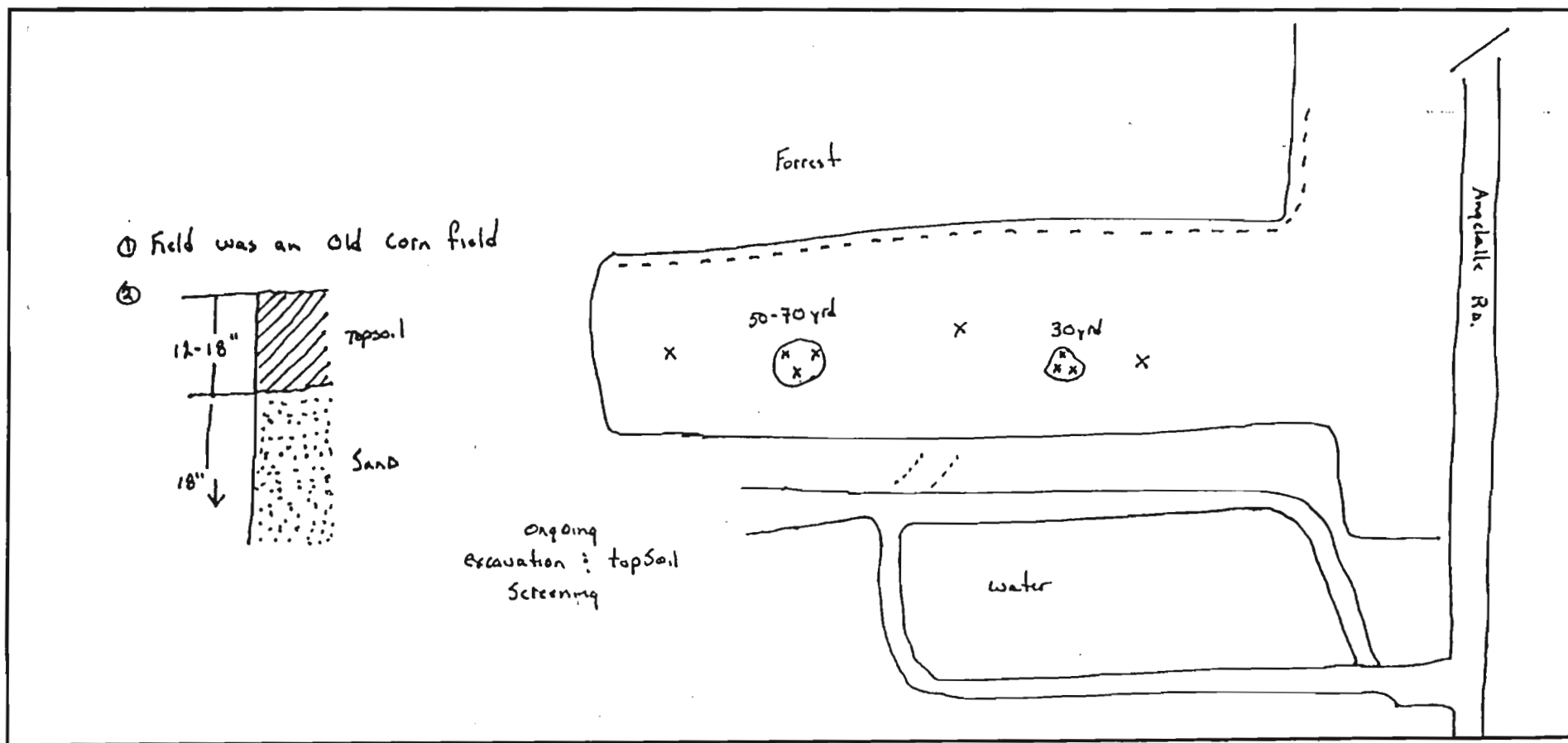
Relinquished by (dd/mm): \_\_\_\_\_ Received by (dd/mm): \_\_\_\_\_

Sample Location Map  
Plattsburgh Air Force Base - Project Numbers 17257 and 17499

Date: 05/23/96

Site Name: Gonya Farm

Page 2 of 2



Comments/Observations:

- Not to Scale
- 9 point composite, x denotes sample locations
- Drainage Swath surrounds entire field

Prepared by: J. Dummell<sup>T</sup> 7967





***APPENDIX F***  
***METHOD DETECTION LIMITS***

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**Method Detection Limits  
Volatile Organic Compounds  
Method SW846-8021  
Plattsburgh AFB – D.O. 003  
Soil and Aqueous Samples**

Effective Date: The entire project

| Compound          | MDL (ug/L or ng/g) |
|-------------------|--------------------|
| MTBE              | 11.7               |
| Benzene           | 0.73               |
| Trichloroethylene | 0.52               |
| Toluene           | 1.06               |
| Ethylbenzene      | 0.79               |
| m,p-Xylene        | 1.93               |
| o-Xylene          | 0.58               |

Note: The listed MDLs are based on a 5 gram soil sample or a 5 mL aqueous sample. Instrument detector response was used to determine if contaminant concentrations in the samples were above the MDLs. Therefore, comparison of sample concentrations to MDLs did not take into account slight variations in sample weight/volume.

**Method Detection Limits  
Semivolatile Organic Compounds  
Method SW846-8270 modified  
Plattsburgh AFB – D.O. 003  
Supercritical Fluid Extraction  
Soil Samples**

Effective Dates: 12/01/95 through 06/30/96

| Compound               | MDL (ng/g) |
|------------------------|------------|
| Naphthalene            | 190        |
| Acenaphthene           | 120        |
| Fluorene               | 90         |
| Phenanthrene           | 100        |
| Anthracene             | 210        |
| Fluoranthene           | 140        |
| Pyrene                 | 160        |
| Benzo(a)anthracene     | 290        |
| Chrysene               | 400        |
| Benzo(k)fluoranthene   | 580        |
| Benzo(b)fluoranthene   | 450        |
| Benzo(a)pyrene         | 490        |
| Indeno(1,2,3-cd)pyrene | 520        |
| Dibenz(a,h)anthracene  | 370        |
| Benzo(g,h,i)perylene   | 400        |

Note: The listed MDLs are based on a 1.5 gram soil sample. Instrument detector response was used to determine if contaminant concentrations in the samples were above the MDLs. Therefore, comparison of sample concentrations to MDLs did not take into account slight variations in sample weight.

**Method Detection Limits  
Semivolatile Organic Compounds  
Method SW846-8270 modified  
Plattsburgh AFB – D.O. 003  
Sonication  
Soil Samples**

Effective Dates: 07/01/96 through the end of the project

| Compound               | MDL (ng/g) |
|------------------------|------------|
| Naphthalene            | 126        |
| Acenaphthene           | 70         |
| Fluorene               | 76         |
| Phenanthrene           | 44         |
| Anthracene             | 46         |
| Fluoranthene           | 60         |
| Pyrene                 | 54         |
| Benzo(a)anthracene     | 48         |
| Chrysene               | 49         |
| Benzo(k)fluoranthene   | 44         |
| Benzo(b)fluoranthene   | 32         |
| Benzo(a)pyrene         | 43         |
| Indeno(1,2,3-cd)pyrene | 40         |
| Dibenz(a,h)anthracene  | 43         |
| Benzo(g,h,i)perylene   | 38         |

Note: The listed MDLs are based on a 5 gram soil sample. Instrument detector response was used to determine if contaminant concentrations in the samples were above the MDLs. Therefore, comparison of sample concentrations to MDLs did not take into account slight variations in sample weight.

**Method Detection Limits  
Semivolatile Organic Compounds  
Method SW846-8270 modified  
Plattsburgh AFB – D.O. 003  
Solid Phase Disc Extraction  
Aqueous Samples**

Effective Dates: 12/01/95 through 03/12/96

| Compound               | MDL (ug/L) |
|------------------------|------------|
| Naphthalene            | 0.75       |
| Acenaphthene           | 0.36       |
| Fluorene               | 0.33       |
| Phenanthrene           | 0.26       |
| Anthracene             | 0.39       |
| Fluoranthene           | 0.28       |
| Pyrene                 | 0.24       |
| Benzo(a)anthracene     | 0.26       |
| Chrysene               | 0.34       |
| Benzo(k)fluoranthene   | 0.28       |
| Benzo(b)fluoranthene   | 0.52       |
| Benzo(a)pyrene         | 0.28       |
| Indeno(1,2,3-cd)pyrene | 0.41       |
| Dibenz(a,h)anthracene  | 0.34       |
| Benzo(g,h,i)perylene   | 0.24       |

Note: The listed MDLs are based on a sample volume of 1 liter. Instrument detector response was used to determine if contaminant concentrations in samples were above the MDLs. Therefore, comparison of sample concentrations to MDLs did not take into account slight variations in sample volume.

**Method Detection Limits  
Semivolatile Organic Compounds  
Method SW846-8270 modified  
Plattsburgh AFB – D.O. 003  
Separatory Funnel Extraction  
Aqueous Samples**

Effective Dates: 03/13/96 through the end of the project

| Compound               | MDL (ug/L) |
|------------------------|------------|
| Naphthalene            | 0.88       |
| Acenaphthalene         | 0.72       |
| Fluorene               | 0.68       |
| Phenanthrene           | 0.76       |
| Anthracene             | 0.77       |
| Fluoranthene           | 0.67       |
| Pyrene                 | 0.68       |
| Benzo(a)anthracene     | 0.49       |
| Chrysene               | 0.46       |
| Benzo(k)fluoranthene   | 0.69       |
| Benzo(b)fluoranthene   | 0.69       |
| Benzo(a)pyrene         | 0.71       |
| Indeno(1,2,3-cd)pyrene | 0.60       |
| Dibenz(a,h)anthracene  | 0.70       |
| Benzo(g,h,i)perylene   | 0.55       |

Note: The listed MDLs are based on a sample volume of 1 liter. Instrument detector response was used to determine if contaminant concentrations in samples were above the MDLs. Therefore, comparison of sample concentrations to MDLs did not take into account slight variations in sample volume.