



DEPARTMENT OF THE ARMY
US ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
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19 APR 2007

MCHB-TS-EGW

MEMORANDUM FOR Environment Division (IMAR-E/Lesca Strickland), U.S. Army Reserve Directorate, Installation Management Command, 2511 Jefferson Davis Highway, Arlington, Virginia 22202-3926

SUBJECT: Continued Site Investigation Addendum No. 38-EH-0606-07, U.S. Army Reserve Command, Camp Pedricktown Reserve Enclave, Building 434 and AOPEC NOS. 12 and 16, Oldmans Township, New Jersey, 25 October – 14 December 2006

1. Enclosed are one paper copy and a cd containing a .pdf file of the subject USACHPPM final report. A .pdf copy is also posted at the USACHPPM Army Knowledge Online group site. Contact the project manager for access information.
2. Questions may be addressed to Mr. David E. Jones, Project Manager, at DSN 584-2305/2024, commercial (410) 436-2305/2024, or email david.jones21@us.army.mil.

FOR THE COMMANDER:

THOMAS T. MOXLEY
LTC, MS
Director, Environmental Health Engineering

Encl

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CONTINUED SITE INVESTIGATION ADDENDUM NO. 38-EH-0606-07
U.S. ARMY RESERVE COMMAND
CAMP PEDRICKTOWN RESERVE ENCLAVE
BLDG. 434 AND AOPEC NOS. 12 AND 16
OLDMANS TOWNSHIP, NEW JERSEY
25 OCTOBER – 14 DECEMBER 2006

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CHPPM FORM 433-E (MCHB-CS-IPD), OCT 03

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CONTINUED SITE INVESTIGATION ADDENDUM NO. 38-EH-0606-07
U.S. ARMY RESERVE COMMAND
CAMP PEDRICKTOWN RESERVE ENCLAVE
BLDG. 434 AND AOPEC NOS. 12 AND 16
OLDMANS TOWNSHIP, NEW JERSEY
25 OCTOBER – 14 DECEMBER 2006

1.0. BACKGROUND.

1.1. References.

1.1.1. Final, Site Investigation of Specific Areas of Potential Environmental Concern at the Reserve Enclave at Camp Pedricktown, KEMRON Environmental Services, Inc., June 2005.

1.1.2. Final Report, Environmental Baseline Survey Report, Camp Pedricktown, Reserve Enclave, Oldmans Township, New Jersey, URS Corporation, May 2003.

1.1.3. E-mail, U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM), (MCHB-TS-LLC), April 09, 2007, Subject: FW: As speciation question (UNCLASSIFIED).

1.2. Authority.

Statement of Work between USACHPPM and the U.S. Army Reserve Command (USARC), dated 28 September 2006.

1.3. Purpose.

This Continued Site Investigation Addendum (CSIA) was conducted to further investigate sites identified in the June 2005 Site Investigation of Specific Areas of Potential Environmental Concern (AOPECs) at the Reserve Enclave at Camp Pedricktown (reference 1.1.1) and in support of the property transfer from the USARC at the former Camp Pedricktown, New Jersey. Data generated during the CSIA assisted in the determination of the presence of potential environmental contamination and possible threat to human health or the environment at Bldg. 434 and AOPECs No. 12 and 16. The CSIA was executed by the USACHPPM and conducted under the direction of the USARC.

1.4. Participating Personnel.

1.4.1. Mr. David E. Jones, Geohydrologist, USACHPPM, Ground Water and Solid Waste Program (GWSWP).

1.4.2. Mr. G. Duane Maners, Senior Engineering Technician, USACHPPM, GWSWP.

1.4.3. Mr. Rocky W. Hoover, Engineering Technician, USACHPPM, GWSWP.

1.4.4. Mr. Soe Aung, P.G., Geologist, USARC.

1.4.5. Mr. Paul Fluck, Program Manager, Fort Dix Base Realignment and Closure (BRAC) Office.

1.5. Background Information.

Background site information can be found in the 2005 Site Investigation Report and the 2003 Environmental Baseline Survey (references 1.1.1 and 1.1.2).

1.6 Figures and Tables.

The figures and tables referred to within the body of this report are presented on pages 7 through 22.

2.0. SUMMARY OF FIELD ACTIVITIES.

2.1. Preliminary Site Visit.

A preliminary site visit was conducted on 25 October 2006 by the USACHPPM. The Fort Dix BRAC Office met with the USACHPPM to provide a site overview and description of work conducted by the BRAC Office on adjacent properties. Drilling locations were physically identified in the field for underground utility clearance. Logbook entries for the project from the preliminary site visit through the ground-water sampling event are included as Appendix A. The photographic log is contained as Appendix B.

2.2. Drilling and Soil Sampling.

2.2.1. The USACHPPM conducted the drilling and soil sampling phase of the project at the Camp Pedricktown Reserve Enclave site from 13-17 November 2006. Utility clearances and monitoring well/soil boring permits from the New Jersey Department of Environmental Protection (NJDEP) were obtained prior to the commencement of field activities. Table 1 identifies the NJDEP permit numbers for each boring and monitoring well.

2.2.2. The USACHPPM installed 10 shallow soil borings, converting 8 into ground-water monitoring wells. Monitoring wells were installed at the contact with the coastal sand and gravel material at approximately 10-12 feet below ground surface. Monitoring wells were developed by pump and surge techniques following at least an 8-hour waiting period after the

completion of the well. Soil borings not converted to wells were abandoned and backfilled with bentonite clay pellets from the bottom of the boring to the surface. Drilling and sampling equipment was decontaminated between boreholes.

2.2.3. Soil samples were collected at Bldg. 434 and AOPEC No. 12. Soil samples were collected using a direct push rig. Samples were collected at depths of 6-18 inches (in), 18-30 in, and 30-42 in at Bldg. 434 and just above the water table (~18-30 in bgs) at AOPEC No. 12. Samples were logged and collected for chemical analysis. Geologic logs are provided as Appendix C. No soil samples were collected below the water table. Samples were containerized, labeled, cooled, and hand carried to the USACHPPM laboratory at Aberdeen Proving Ground, Maryland. Soils from Bldg. 434 were analyzed for explosive residues, arsenic, boron, cadmium, chromium, lead, and molybdenum. Soils from AOPEC No. 12 were analyzed for semivolatile organic compounds (SVOCs), total petroleum hydrocarbons - diesel range organics (TPH-DRO), arsenic, boron, cadmium, chromium, lead, and molybdenum. Sulfate was analyzed in four samples from Bldg. 434 and one location at AOPEC No. 12. Figures 1 and 2 illustrate the locations of soil borings and monitoring wells. Tables 3 and 4 provide the analytical results for subsurface soil and equipment rinsate samples collected. Laboratory data packages are provided as Appendix D.

2.3. Ground-Water Sampling.

The USACHPPM conducted ground-water sampling at the Camp Pedricktown Reserve Enclave site on 13 and 14 December 2006 to allow for newly installed monitoring wells to stabilize and equilibrate to natural surrounding conditions. Prior to sampling, water levels were measured at 14 monitoring well locations. Figures 3 and 4 identify the potentiometric surface at the time of the sampling event (the water level from existing monitoring well EA-413-1 was collected but not included on Figure 4 or Table 2 due to insufficient survey data). The potentiometric maps indicate the flow of ground water basically toward the north-northwest in the direction of the Delaware River. Water elevation data is provided as Table 2. Eleven monitoring wells, which included three existing monitoring wells, were collectively sampled at Bldg. 434, and AOPEC Nos. 12 and 16. Ground-water samples were collected using low-flow purging and sampling techniques. Well pumps and sample tubing were precleaned by the Battelle Marine Sciences Laboratory in Sequim, Washington. Wells at Bldg. 434 were sampled for explosive residues, arsenic (speciated), boron, cadmium, chromium, lead, and molybdenum. Chemical analysis for wells at AOPEC No. 12 included SVOCs, TPH-DRO, arsenic (speciated), boron, cadmium, chromium, lead, and molybdenum. At AOPEC No. 16, samples were analyzed for volatile organic compounds (VOCs), SVOCs, TPH - gasoline range organics, TPH-DRO, arsenic (speciated), boron, cadmium, chromium, lead, and molybdenum. Samples were containerized, labeled, cooled, and hand carried to the USACHPPM laboratory at Aberdeen Proving Ground, Maryland. Sample logs and equipment calibration logs are provided as Appendix E. Laboratory Data Packages are provided as Appendix F.

2.4. Investigative-Derived Wastes (IDW).

IDW were containerized in labeled 55-gallon drums. IDW were left on site adjacent to the areas from where they were generated.

3.0. SUMMARY OF ANALYTICAL RESULTS.

3.1. Soil Data Results.

Tables 3 and 4 summarize the analytical results for soils. Only the results above the laboratory detection limits are summarized for each area within the text of the report. New Jersey regulatory standards are provided as Appendix G.

3.1.1. Bldg. 434.

3.1.1.1. Soils were identified above the New Jersey Residential and Non-Residential Soil Cleanup Criteria for arsenic (20 milligrams per kilogram (mg/kg)) at two locations. At 434-SB-03, arsenic was identified at 180, 190, and 87 mg/kg at depths of 6-18 in, 18-30 in, and 30-42 in, respectively. At 434-SB-04, arsenic was identified at 34, 68, and 77 mg/kg at depths of 6-18 in, 18-30 in, and 30-42 in, respectively. Arsenic was detected at concentrations well below the New Jersey soil cleanup criteria at each sample interval at the remaining locations at Bldg. 434. Boron was detected at 13 and 6.8 mg/kg in samples 434-SB-02-1830 and 434-SB-03-1830, respectively. New Jersey does not have soil cleanup criterion for boron. Cadmium was detected at very low concentrations at 434-SB-03 at depths of 6-18 in. and 18-30 in. Cadmium was not detected in the sample from 30-42 in. Low concentrations of chromium and lead were detected at each sampling location well below the New Jersey soil cleanup criteria. Sulfate was detected at concentrations of 150, 70, and 59 mg/kg at 434-SB-03 (30-42 in), 434-SB-04 (30-42 in), and 434-SB-05 (30-42 in), respectively. Explosives residues were not detected in soils.

3.1.1.2. Arsenic was speciated in the soil sample 434-SB-03-1830 on 13 March 2007. The trivalent fraction was measured between 0.252 and 0.266 mg/kg, and the pentavalent fraction ranged between 34.6 to 35.9 mg/kg. Total inorganic arsenic ranged between 34.8 to 36.1 mg/kg by U.S. Environmental Protection Agency (EPA) method 1623A modified, which was significantly less than the value for total arsenic under EPA method 6010B. The difference in values is attributed to the original design of EPA method 1623A, which was originally intended for water and tissues. The leach technique used to extract arsenic species quantifies only the soluble arsenic species that form a hybrid. In tissues, those values are pretty close to the same because tissues solubilize easily. In sediments, however, there are very recalcitrant forms of arsenic that either do not dissolve in the leaches or do not form a hydride. So the difference between the total arsenic and total inorganic arsenic are more likely the very recalcitrant (mineral) forms of arsenic. Gaps for total arsenic between methods are typically indicative of

naturally occurring arsenic minerals in the area where those samples were collected (reference 1.1.3).

3.1.2. AOPEC No. 12. All soil sampling results were below the New Jersey soil cleanup criteria for the analytes sampled. The analytes arsenic, chromium, lead, and bis(2-ethylhexyl)phthalate were detected at each sample locations, but well below the cleanup criteria standard. TPH-DRO was detected in the field duplicate sample at 12-SB-03 at 13 mg/kg.

3.2. Ground-Water Data Results.

Tables 5-7 summarize the analytical results for ground water. Only the results above the laboratory detection limits are summarized. New Jersey regulatory standards are provided as Appendix G.

3.2.1. Bldg. 434. Lead was identified at one location (434-MW-02) at 22.1 micrograms per liter ($\mu\text{g/L}$), above the New Jersey Higher of Practical Quantitation Level and Ground Water Quality Criterion (regulatory threshold) of 5 $\mu\text{g/L}$. Arsenic was detected in ground water at each well location. At one location (434-MW-04), arsenic was identified at 4.08 $\mu\text{g/L}$, above the 3.0 $\mu\text{g/L}$ standard. Boron was detected at each well location at concentrations ranging from 128 to 229 $\mu\text{g/L}$. Sulfate was detected at 15 and 23 milligrams per liter (mg/L) at 434-MW-02 and 434-MW-03, respectively. Explosives residues were not detected in ground water.

3.2.2. AOPEC No. 12. Lead was detected above the 5.0 $\mu\text{g/L}$ regulatory threshold in ground water at all three well locations (5.6 $\mu\text{g/L}$ at 13-MW-01, 14.4 $\mu\text{g/L}$ at 12-MW-02, and 9.87 $\mu\text{g/L}$ at 12-MW-03). Arsenic was detected at all three well locations but only exceeded the regulatory threshold of 3.0 $\mu\text{g/L}$ at 12-MW-02 (4.34 $\mu\text{g/L}$). Boron ranged from 115 $\mu\text{g/L}$ to 188 $\mu\text{g/L}$ at the three locations. Sulfate was identified at 12-MW-03 at 13 mg/L . There were no detections of TPH-DRO or SVOCs above detections limits.

3.2.3. AOPEC No. 16. Lead was the only constituent identified just above the regulatory threshold of 5.0 $\mu\text{g/L}$ (413-W-MW-1 at 5.14 $\mu\text{g/L}$ but was not found in field duplicate sample). Arsenic (ranging from 0.138 to 0.888 $\mu\text{g/L}$) and boron (ranging from 147 to 185 $\mu\text{g/L}$) were detected at each well location. Sulfate was measured at 39 and 48 mg/L at 413-MW-W-MW1 and 413-MW-02, respectively. TPH-DRO was identified at 413-W-MW1 (200 $\mu\text{g/L}$, 210 $\mu\text{g/L}$ in the field duplicate) and 413-MW-03 (150 $\mu\text{g/L}$) above the detection limit. No VOCs were measured above the detection limit, but tetrachloroethene was identified as being present at some concentration below the 5.0 $\mu\text{g/L}$ detection limit at 413-W-MW1 and 413-MW-03. No SVOCs were identified above the detection limit.

3.3. Noncompliances.

Noncompliances reported by the laboratory included some samples outside of temperature requirements, and some matrix spike and matrix spike duplicates falling slightly outside of target ranges. After discussions with the laboratory concerning these issues, it was determined that the overall impacts on the results are considered insignificant.

4.0 CONCLUSIONS AND RECOMMENDATIONS.

Appendix H contains the fact finding report, conclusions, and recommendations made by the USARC Project Geologist based on the data contained within this and previous reports.



DAVID E. JONES
Geohydrologist

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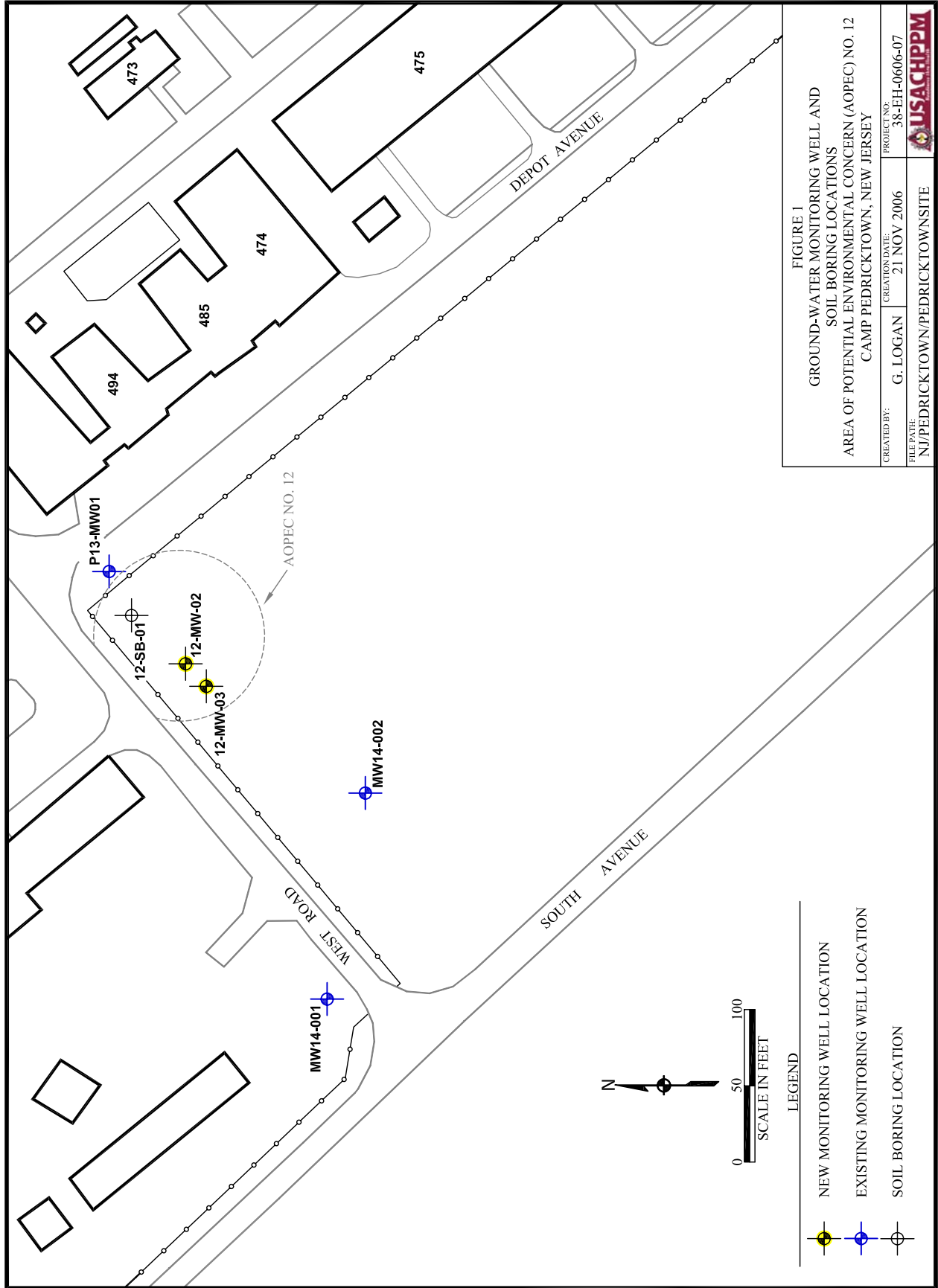
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Section Chief
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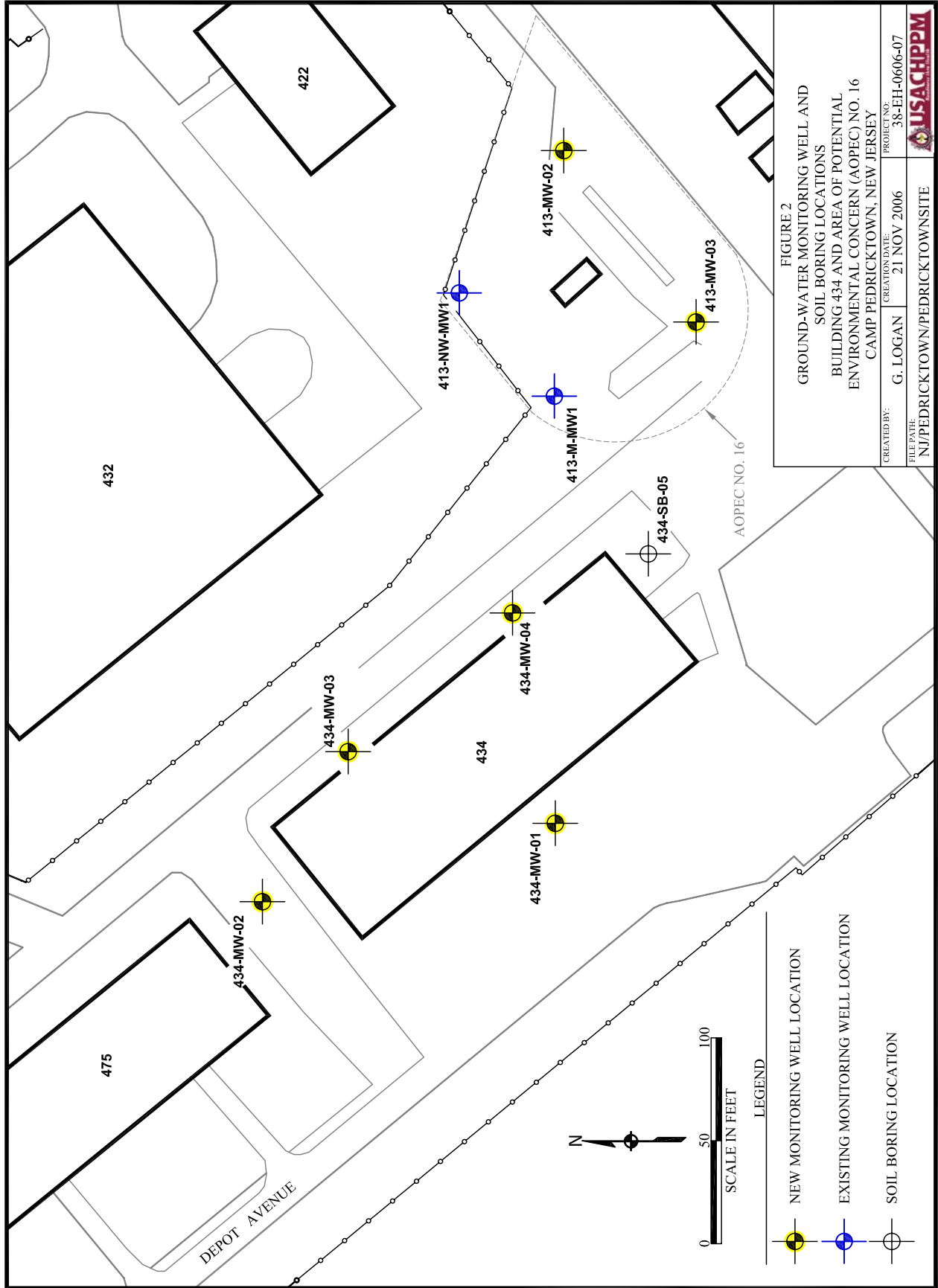
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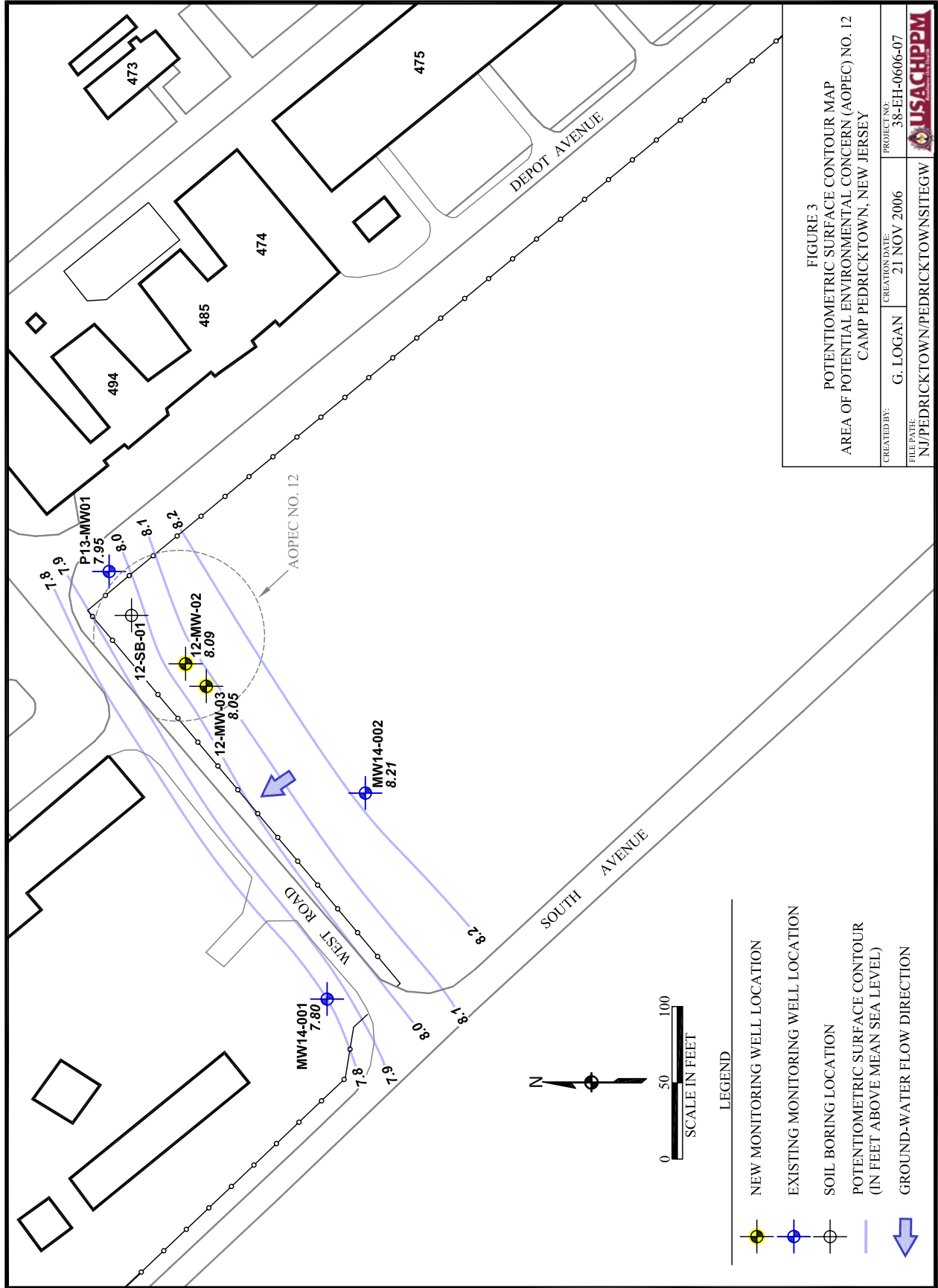


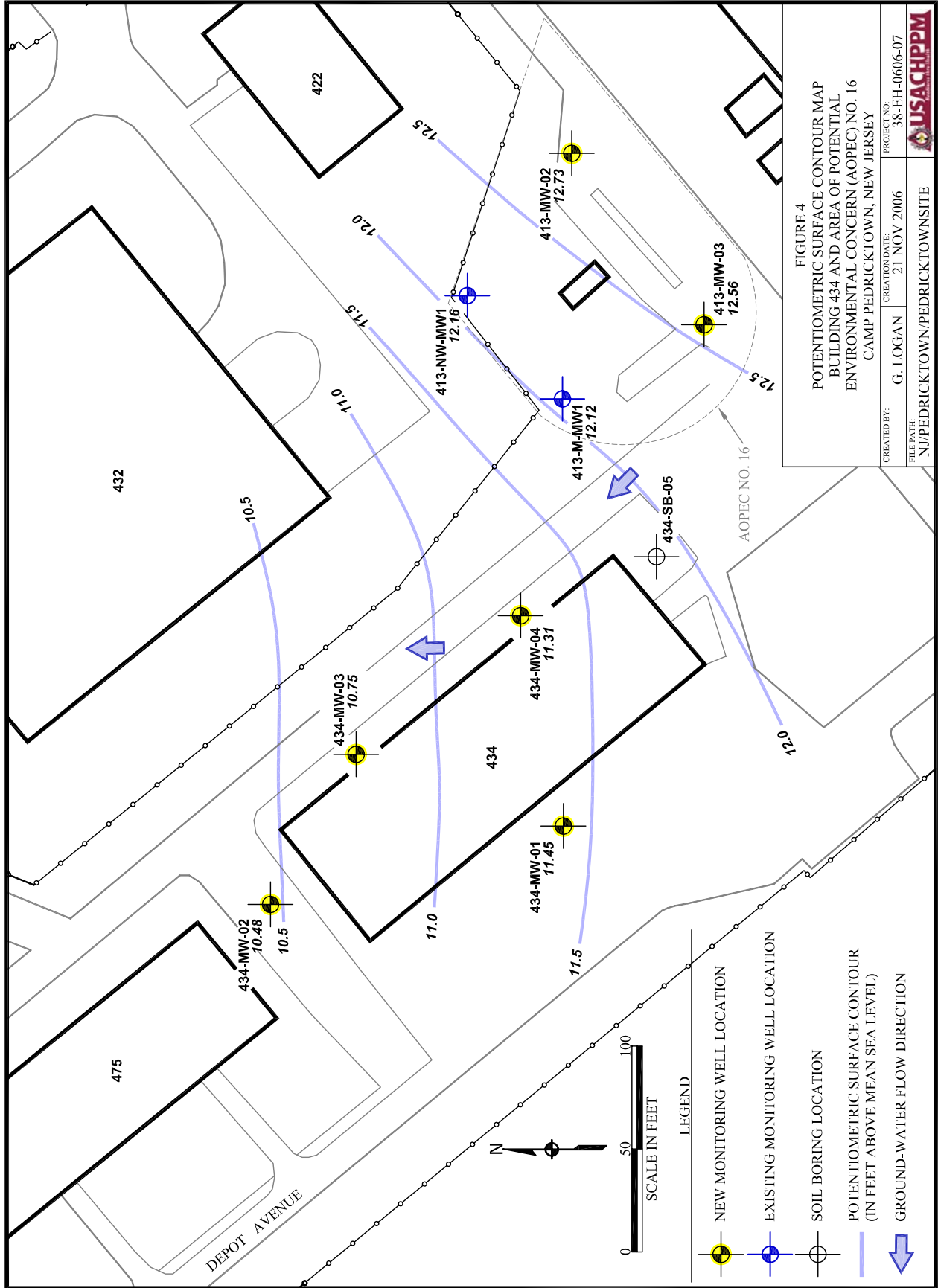
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FIGURES









TABLES

Table 1. New Jersey Department of Environmental Protection Permit Numbers.

Well/Boring ID	434-MW-01	434-MW-02	434-MW-03	434-MW-03	434-SB-05	12-SB-01	12-MW-02	413-MW-02	413-MW-03
Permit No.	3000019158	3000019159	3000019160	3000019161	3000019166	3000019165	3000019156	3000019162	3000019163

Table 2. Water Level Elevation Data.

Well ID	434-MW-01	434-MW-02	434-MW-03	413-MW-02	413-MW-03	413-MW-04
PVC Elevation (ft AMSL)	15.85	14.49	13.08	16.77	16.88	17.93
Water Level (ft TOC)	4.40	4.01	5.35	4.65	4.15	5.37
Total Depth (ft TOC)	11.86	11.86	13.83	18.66	11.75	11.99
Water Elevation (ft AMSL)	11.45	10.48	14.33	12.12	12.73	12.56
~Total Depth of Boring (ft TOC)	16	13	8.05	N/A	13	13
Total Depth of Well (ft bgs)	11.86	11.86	13.5	18.66	11.75	11.99
~Screened Interval (ft bgs)	6.5-11.5	6-11	2.5-12.5	N/A	6.5-11.5	6.5-11.5
~Riser Interval (ft bgs)	0.5-6.5	0.5-6	+2-2.25	N/A	0.5-6.5	0.5-6.5
~Sand Interval (ft bgs)	4-16	4-13	1.25-13.5	N/A	3.5-12	2.5-12
~Bentonite Interval (ft bgs)	1.75-4	2-4	0.75-1.5	N/A	2.5-3.5	1.5-2.5
~Grout Interval (ft bgs)	0.5-1.75	0.5-2	+0.5-0.75	N/A	0.5-2.5	0.5-1.5

Table 2. Water Level Elevation Data (continued).

Well ID	12-MW-02	12-MW-03	P13-MW01	P14-MW01	P14-MW02	P14-MW03
PVC Elevation (ft AMSL)	13.38	13.08	13.30	12.40	12.40	12.39
Water Level (ft TOC)	5.29	5.03	5.35	4.60	4.18	4.18
Total Depth (ft TOC)	13.83	14.33	15.37	15.41	13.27	13.27
Water Elevation (ft AMSL)	8.09	8.05	7.95	7.80	7.80	8.21
~Total Depth of Boring (ft TOC)	13.5	13.5	N/A	N/A	N/A	N/A
Total Depth of Well (ft bgs)	13.83	14.33	15.37	13.27	15.41	15.41
~Screened Interval (ft bgs)	2.25-12.25	2.5-12.5	N/A	N/A	N/A	N/A
~Riser Interval (ft bgs)	+2-2.25	+2-2.5	N/A	N/A	N/A	N/A
~Sand Interval (ft bgs)	1.25-13.5	1.5-13.5	N/A	N/A	N/A	N/A
~Bentonite Interval (ft bgs)	0.5-1.25	0.75-1.5	N/A	N/A	N/A	N/A
~Grout Interval (ft bgs)	+0.5-0.5	+0.5-0.75	N/A	N/A	N/A	N/A

Table 2. Water Level Elevation Data (continued).

Well ID	413-NW-MW01	413-W-MW-01	413-MW-02	413-MW-03
PVC Elevation (ft AMSL)	16.49	16.77	16.88	17.93
Water Level (ft TOC)	4.33	4.65	4.15	5.37
Total Depth (ft TOC)	15.90	18.66	11.75	11.99
Water Elevation (ft AMSL)	12.16	12.12	12.73	12.56
~Total Depth of Boring (ft TOC)	N/A	N/A	13	13
Total Depth of Well (ft bgs)	15.90	18.66	11.75	11.99
~Screened Interval (ft bgs)	N/A	N/A	6.5-11.5	6.5-11.5
~Riser Interval (ft bgs)	N/A	N/A	0.5-6.5	0.5-6.5
~Sand Interval (ft bgs)	N/A	N/A	3.5-12	4.5-11.5
~Bentonite Interval (ft bgs)	N/A	N/A	2.5-3.5	2-4.5
~Grout Interval (ft bgs)	N/A	N/A	0.5-2.5	0.5-2

ft AMSL – feet above mean sea level.
 ft TOC – feet from top of well casing.
 ft bgs – feet below ground surface.
 N/A - Not applicable, existing well.

Table 3. Summary of Analytical Results for Soils at Bldg. 434.

Sample ID USACHPPM Lab Sample ID Sample Date/Time Sample Depth	434-SB-01-1830 23159002 13Nov06/0915 6"-18"	434-SB-01-3042 23159003 13Nov06/0915 30"-42"	434-SB-02-0618 23159004 13Nov06/1330 6"-18"	434-SB-02-1830 23159008 13Nov06/1400 18"-30"	434-SB-02A-1830* 23159007 13Nov06/1400 18"-30"	434-SB-02-3042 23159006 13Nov06/1400 30"-42"	434-SB-03-1830 23164002 14Nov06/1250 18"-30"	434-SB-03-3042 23164003 14Nov06/1250 30"-42"
METALS (mg/kg)								
Arsenic	4.4	5.0	6.3	1.9	1.9	2.7	190	87
Boron	ND (5.0)	ND (4.8)	ND (4.8)	13	ND (4.8)	ND (4.6)	6.8	ND (4.8)
Cadmium	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.66	ND (0.1)
Chromium	13	13	7.7	9.2	9.6	11.0	16	8.4
Lead	18	25	24	3.6	3.6	4.4	210	5.5
Molybdenum	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.1)	1.2	ND (1.0)
SULFATE (mg/kg)	NA	NA	NA	ND (56)	ND (56)	NA	NA	150
EXPLOSIVES RESIDUES (µg/kg)								
1,3,5-Trinitrobenzene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
1,3-Dinitrobenzene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
2,4,6-Trinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
2,4-Dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
2,6-Dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
2-Amino-4,6-dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
2-Nitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
3-Nitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
4-Amino-2,6-dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
4-Nitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
HMX	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Nitrobenzene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Nitroglycerin	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
RDX	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Tetryl	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)

Table 3 Summary of Analytical Results for Soils at Bldg. 434 (continued).

Sample ID USACHPPM Lab Sample ID Sample Date/Time Sample Depth	434-SB-04-1830 23164004 14Nov06/1330 6"-18"	434-SB-04-1830 23164005 14Nov06/1330 18"-30"	434-SB-04-3042 23164006 14Nov06/1330 30"-42"	434-SB-05-0618 23164007 14Nov06/1400 6"-18"	434-SB-05-1830 23164008 14Nov06/1400 18"-30"	434-SB-05-3042 23164009 14Nov06/1400 30"-42"	434-ER1 23167001 14Nov06/1430 N/A
METALS (mg/kg)							
Arsenic	34	68	77	15	13	2.5	ND (0.004)
Boron	ND (4.9)	ND (4.7)	ND (4.7)	ND (5.0)	ND (4.9)	ND (4.9)	0.229
Cadmium	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.002)
Chromium	9.7	8.7	10	7.4	7.7	7.3	ND (0.020)
Lead	47	49	3.8	23	20	4.9	ND (0.004)
Molybdenum	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.1)	ND (0.002)
SULFATE (mg/kg)	NA	NA	70	NA	NA	59	ND (1.0)
EXPLOSIVES RESIDUES (µg/kg)							
1,3,5-Trinitrobenzene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.03)
1,3-Dinitrobenzene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
2,4,6-Trinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.09)
2,4-Dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.02)
2,6-Dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.01)
2-Amino-4,6-dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.09)
2-Nitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.09)
3-Nitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.1)
4-Amino-2,6-dinitrotoluene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.09)
4-Nitrotoluene	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (3.0)
HMX	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.03)
Nitrobenzene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.09)
Nitroglycerin	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.1)
RDX	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.5)
Tetryl	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.5)

Bold indicates analyte found in sample above detection limit; shaded areas represent detected quantity above State action level.

* - 434-SB-02A-1830 was collected as a field duplicate to 434-SB-02-1830.

ND (21.3) - Analyte not detected at specified detection limit.

NA - Analyte not analyzed in sample.

N/A - Not Applicable

Equipment Rinsate units are separately identified.

Table 4 Summary of Analytical Results for Soils at AOPEC No. 12.

Sample ID USACHPPM Lab Sample ID Sample Date/Time Sample Depth	12-SB-01-1830 23164010 14Nov06/1455 18"-30"	12-SB-02-1830 23164011 14Nov06/1510 18"-30"	12-SB-03-1830 23164012 14Nov06/1530 18"-30"	12-SB-03A-1830* 23164013 14Nov06/1530 18"-30"	12-ER2 23167002 14Nov06/1630 N/A
METALS (mg/kg)					
Arsenic	1.8	2.4	2.7	2.8	(mg/L) ND (0.004)
Boron	ND (4.8)	ND (4.9)	ND (4.7)	ND (4.9)	0.254
Cadmium	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.002)
Chromium	7.5	8.2	11	11	ND (0.030)
Lead	11	7.9	6.8	7	ND (0.004)
Molybdenum	ND (1.0)	ND (1.1)	ND (1.0)	ND (1.0)	ND (0.002)
SULFATE (mg/kg)	NA	NA	ND (550)	66	(mg/L) ND (1.0)
TPH-DRO (mg/kg)	ND (130)	ND (130)	ND (130)	13	(mg/L) ND (980)
SVOCs (µg/kg)					(µg/l)
1,2,4-Trichlorobenzene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
1,2-Dichlorobenzene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
1,3-Dichlorobenzene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
1,4-Dichlorobenzene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2,4,5-Trichlorophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2,4,6-Trichlorophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2,4-Dichlorophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2,4-Dimethylphenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2,4-Dinitrophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2,6-Dinitrotoluene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2-Chloronaphthalene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2-Chlorophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2-Methyl-4,6-dinitrophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2-Methylnaphthalene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2-Methylphenol (o-Cresol)	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2-Nitroaniline	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
2-Nitrophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
3-Nitroaniline	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
4-Bromophenyl-phenylether	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
4-Chloro-3-methylphenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
4-Chloroaniline	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
4-Chlorophenyl-phenylether	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
4-Methylphenol (p-Cresol)	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
4-Nitroaniline	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
4-Nitrophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Acenaphthene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Acenaphthylene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Anthracene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Benzo(a)anthracene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Benzo(a)pyrene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Benzo(b)fluoranthene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Benzo(g,h,i)perylene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Benzo(k)fluoranthene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Benzyl alcohol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
bis(2-Chloroethoxy)methane	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
bis(2-Chloroethyl)ether	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
bis(2-chloroisopropyl)ether	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
bis(2-ethylhexyl)phthalate	1100	670	650	640	ND (10)
1,2,4-Trichlorobenzene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Butylbenzylphthalate	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Chrysene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Dibenz(a,h)anthracene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Dibenzofuran	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Diethylphthalate	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Dimethylphthalate	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Di-n-butylphthalate	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Di-n-octylphthalate	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Fluoranthene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Fluorene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Hexachlorobenzene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)

Table 4 Summary of Analytical Results for Soils at AOPEC No. 12 (continued).

Sample ID USACHPPM Lab Sample ID Sample Date/Time Sample Depth	12-SB-01-1830 23164010 14Nov06/1455 18" -30"	12-SB-02-1830 23164011 14Nov06/1510 18" -30"	12-SB-03-1830 23164011 14Nov06/1530 18" -30"	12-SB-03A-1830 23164013 14Nov06/1530 18" -30"	12-ER2 23167002 14Nov06/1630 N/A
SYOC's (cont'd) (ug/kg)					
Hexachlorobutadiene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Hexachlorocyclopentadiene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Hexachloroethane	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Indenol(1,2,3-cd)pyrene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Isophorone	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Naphthalene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Nitrobenzene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
N-Nitrosodimethylamine	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
N-Nitrosodiphenylamine	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
N-Nitrosodipropylamine	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Pentachlorophenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Phenanthrene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Phenol	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)
Pyrene	ND (380)	ND (370)	ND (370)	ND (370)	ND (10)

ND indicates analyte found in sample above detection limit; shaded areas represent detected quantity above State action level.

*- 12-SB-03A-1830 was collected as a field duplicate to 12-SB-03-1830.

ND (21.3) – Analyte not detected at specified detection limit.

NA – Analyte not analyzed in sample.

N/A – Not Applicable

Equipment Rinsate units are separately identified

Table 5. Summary of Analytical Results for Ground Water at Bldg. 434.

Sample ID USACHPPM Lab Sample ID Sample Date/Time	434-MW-01-GW 23548012 13Dec06/1359	434-MW-02-GW 23548013 13Dec06/1352	434-MW-03-GW 23548014 13Dec06/1610	434-MW-03A-GW* 23548015 13Dec06/1610	434-MW-04-GW 23548016 13Dec06/1610
METALS (µg/L)					
Boron	128 ND (2.0)	154 ND (2.0)	192 ND (2.0)	148 ND (2.0)	229 ND (2.0)
Cadmium	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Chromium	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Lead	ND (4.0)	22.1 ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)
Molybdenum	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Arsenic (As) SPECIATION (µg/L)					
Total As	2.21	0.0633	0.609	0.588	4.08
Total Inorganic As (+3 and +5)	0.516	0.0477	0.431	0.374	2.84
As (+3)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)
As (+5)	0.516	0.0477	0.431	0.374	2.84
Dimethylarsinate	ND (0.0179)	ND (0.0179)	ND (0.0179)	ND (0.0179)	ND (0.0179)
Monomethylarsinate	ND (0.0374)	ND (0.0374)	ND (0.0374)	ND (0.0374)	ND (0.0374)
SULFATE (mg/L)	NA	15	23	NA	NA
EXPLOSIVES RESIDUES (µg/L)					
1,3,5-Trinitrobenzene	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
1,3-Dinitrobenzene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
2,4,6-Trinitrotoluene	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)
2,4-Dinitrotoluene	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
2,6-Dinitrotoluene	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)
2-Amino-4,6-dinitrotoluene	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
2-Nitrotoluene	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)
3-Nitrotoluene	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)
4-Amino-2,6-dinitrotoluene	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
4-Nitrotoluene	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)
HMX	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Nitrobenzene	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)	ND (0.03)
Nitroglycerin	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)	ND (0.09)
RDX	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)
Tetryl	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)

Bold indicates analyte found in sample above detection limit; shaded areas represent detected quantity above State action level.

* - 434-MW-03A-GW was collected as a field duplicate to 434-MW-03-GW.

ND (2.0) - Analyte not detected at specified detection limit.

NA - Analyte not analyzed in sample.

Table 6. Summary of Analytical Results for Ground Water at AOPEC No. 12.

Sample ID USACHPPM Lab Sample ID Sample Date/Time	13-MW-01-GW 23548006 14Dec06/1535	12-MW-02-GW 23548002 14Dec06/1635	12-MW-03-GW 23548002 14Dec06/1735
METALS (µg/L)			
Boron	155	188	115
Cadmium	ND (2.0)	ND (2.0)	ND (2.0)
Chromium	ND (20)	ND (20)	ND (20)
Lead	5.6	14.4	9.87
Molybdenum	ND (2.0)	ND (2.0)	ND (2.0)
Arsenic (As) SPECIATION (µg/L)			
Total As	0.438	4.34	1.23
Total Inorganic As (+3 and +5)	0.226	1.16	0.417
As (+3)	ND (0.022)	0.0589	ND (0.022)
As (+5)	0.226	1.10	0.417
Dimethylarsinate	ND (0.0179)	ND (0.0179)	ND (0.0179)
Monomethylarsinate	ND (0.0374)	ND (0.0374)	ND (0.0374)
SULFATE (mg/L)	NA	NA	13
TPH-DRO (µg/L)	62J	49J	48J
SVOCs (µg/L)			
1,2,4-Trichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)
1,2-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)
1,3-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)
1,4-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)
2,4,5-Trichlorophenol	ND (5.0)	ND (5.0)	ND (5.0)
2,4,6-Trichlorophenol	ND (5.0)	ND (5.0)	ND (5.0)
2,4-Dichlorophenol	ND (5.0)	ND (5.0)	ND (5.0)
2,4-Dimethylphenol	ND (10.0)	ND (10.0)	ND (10.0)
2,4-Dinitrophenol	ND (59.0)	ND (58.0)	ND (60.0)
2,4-Dinitrotoluene	ND (5.0)	ND (5.0)	ND (5.0)
2,6-Dinitrotoluene	ND (5.0)	ND (5.0)	ND (5.0)
2-Chloronaphthalene	ND (5.0)	ND (5.0)	ND (5.0)
2-Chlorophenol	ND (5.0)	ND (5.0)	ND (5.0)
2-Methyl-4,6-dinitrophenol	ND (15.0)	ND (14.0)	ND (15.0)
2-Methylnaphthalene	ND (5.0)	ND (5.0)	ND (5.0)
2-Methylphenol (o-Cresol)	ND (5.0)	ND (5.0)	ND (5.0)
2-Nitroaniline	ND (5.0)	ND (5.0)	ND (5.0)
2-Nitrophenol	ND (5.0)	ND (5.0)	ND (5.0)
3-Nitroaniline	ND (5.0)	ND (5.0)	ND (5.0)
4-Bromophenyl-phenylether	ND (5.0)	ND (5.0)	ND (5.0)
4-Chloro-3-methylphenol	ND (5.0)	ND (5.0)	ND (5.0)
4-Chloroaniline	ND (5.0)	ND (5.0)	ND (5.0)
4-Chlorophenyl-phenylether	ND (5.0)	ND (5.0)	ND (5.0)
4-Methylphenol (p-Cresol)	ND (5.0)	ND (5.0)	ND (5.0)
4-Nitroaniline	ND (5.0)	ND (5.0)	ND (5.0)
4-Nitrophenol	ND (30.0)	ND (29.0)	ND (30.0)
Acenaphthene	ND (5.0)	ND (5.0)	ND (5.0)
Acenaphthylene	ND (5.0)	ND (5.0)	ND (5.0)
Anthracene	ND (5.0)	ND (5.0)	ND (5.0)
Benzo(a)anthracene	ND (5.0)	ND (5.0)	ND (5.0)
Benzo(a)pyrene	ND (5.0)	ND (5.0)	ND (5.0)
Benzo(b)fluoranthene	ND (5.0)	ND (5.0)	ND (5.0)
Benzo(g,h,i)perylene	ND (5.0)	ND (5.0)	ND (5.0)
Benzo(k)fluoranthene	ND (5.0)	ND (5.0)	ND (5.0)
Benzyl alcohol	ND (15.0)	ND (14.0)	ND (15.0)
bis(2-Chloroethoxy)methane	ND (5.0)	ND (5.0)	ND (5.0)
bis(2-Chloroethyl)ether	ND (5.0)	ND (5.0)	ND (5.0)
bis(2-chloroisopropyl)ether	ND (5.0)	ND (5.0)	ND (5.0)
bis(2-ethylhexyl)phthalate	ND (5.0)	ND (5.0)	ND (5.0)
1,2,4-Trichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)
Butylbenzylphthalate	ND (5.0)	ND (5.0)	ND (5.0)
Chrysene	ND (5.0)	ND (5.0)	ND (5.0)
Dibenz(a,h)anthracene	ND (5.0)	ND (5.0)	ND (5.0)
Dibenzofuran	ND (5.0)	ND (5.0)	ND (5.0)
Diethylphthalate	ND (5.0)	ND (5.0)	ND (5.0)
Di-n-butylphthalate	ND (5.0)	ND (5.0)	ND (5.0)
Di-n-octylphthalate	ND (5.0)	ND (5.0)	ND (5.0)

Table 6 Summary of Analytical Results for Ground Water at AOPEC No. 12 (continued).

Sample ID USACHPPM Lab Sample ID Sample Date/Time	13-MW-01-GW 23548012 14Dec06/1535	12-MW-02-GW 23548002 14Dec06/1635	12-MW-03-GW 23548002 14Dec06/1735
SVOCs (cont'd) (µg/l)			
Fluoranthene	ND (5.0)	ND (5.0)	ND (5.0)
Fluorene	ND (5.0)	ND (5.0)	ND (5.0)
Hexachlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)
Hexachlorobutadiene	ND (5.0)	ND (5.0)	ND (5.0)
Hexachlorocyclopentadiene	ND (5.0)	ND (14.0)	ND (15.0)
Hexachloroethane	ND (5.0)	ND (5.0)	ND (5.0)
Indeno(1,2,3-cd)pyrene	ND (5.0)	ND (5.0)	ND (5.0)
Isophorone	ND (5.0)	ND (5.0)	ND (5.0)
Naphthalene	ND (5.0)	ND (5.0)	ND (5.0)
Nitrobenzene	ND (5.0)	ND (5.0)	ND (5.0)
N-Nitrosodimethylamine	ND (5.0)	ND (5.0)	ND (5.0)
N-Nitrosodiphenylamine	ND (5.0)	ND (5.0)	ND (5.0)
N-Nitrosodipropylamine	ND (5.0)	ND (5.0)	ND (5.0)
Pentachlorophenol	ND (15.0)	ND (14.0)	ND (15.0)
Phenanthrene	ND (5.0)	ND (5.0)	ND (5.0)
Pyrene	ND (5.0)	ND (5.0)	ND (5.0)

Bold indicates analyte found in sample above detection limit; shaded areas represent detected quantity above State action level.

ND (2.0) – Analyte not detected at specified detection limit.

NA – Analyte not analyzed in sample.

62J – Analyte was detected at quantity below the instrument minimum detection limit and is estimated.

Table 7. Summary of Analytical Results for Ground Water at AOPEC No. 16.

Sample ID USACHPPM Lab Sample ID Sample Date/Time	413-NW-MW1-GW 23548008 14Dec06/1040	413-W-MW1-GW 23548004 14Dec06/1145	413-W-MW1A-GW* 23548009 14Dec06/1145	413-MW-02-GW 23548003 14Dec06/1635	413-MW-03-GW 23548005 14Dec06/1355	Field Blanks 23548001 01Dec06/0900
METALS (µg/L)						
Boron	185	175	147	158	174	NA
Cadmium	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	NA
Chromium	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	NA
Lead	ND (4.0)	5.14	ND (4.0)	ND (4.0)	15.7	NA
Molybdenum	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	NA
Arsenic (As) SPECIATION (µg/L)						
Total As	0.431	0.138	NA	0.888	0.776	NA
Total Inorganic As (+3 and +5)	0.173	0.0523	NA	0.535	0.267	NA
As (+3)	ND (0.022)	ND (0.022)	NA	0.0356	ND (0.022)	NA
As (+5)	0.173	0.0523	NA	0.499	0.267	NA
Dimethylarsinate	ND (0.0179)	ND (0.0179)	NA	ND (0.0179)	ND (0.0179)	NA
Monomethylarsinate	ND (0.0374)	ND (0.0374)	NA	ND (0.0374)	ND (0.0374)	NA
SULFATE (mg/L)	NA	39	39	48	NA	NA
TPH-GRO (µg/L)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	NA
TPH-DRO (µg/L)	711	200	210	601	150	NA
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,1,1-Trichloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,1,2,2-Tetrachloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,1,2-Trichloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,1-Dichloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,1-Dichloroethene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,1-Dichloropropene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2,3-Trichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2,3-Trichloropropane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2,4-Trichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2,4-Trimethylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2-Dibromo-3-chloropropane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2-Dibromoethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2-Dichloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,2-Dichloropropane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,3,5-Trimethylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,3-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,3-Dichloropropane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
1,4-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
2,2-Dichloropropane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
2-Butanone (MEK)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (5.0)
2-Chlorotoluene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
2-Hexanone	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
4-Chlorotoluene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
4-Isopropyltoluene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
4-Methyl-2-pentanone (MIBK)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Acetone	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)
Acrylonitrile	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)
Allyl chloride	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Benzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Bromobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Bromochloromethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Bromodichloromethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Bromoform	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Bromomethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Carbon disulfide	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Carbon tetrachloride	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Chlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Chloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Chloroform	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Chloromethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
cis-1,2-Dichloroethene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
cis-1,3-Dichloropropene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Dibromochloromethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Dibromomethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)

Table 7 Summary of Analytical Results for Ground Water at AOPEC No. 16 (continued).

Sample ID USACHPPM Lab Sample ID Sample Date/Time	413-NW-MW1-GW 23548008 14Dec06/1040	413-W-MW1-GW* 23548004 14Dec06/1145	413-W-MW1A-GW* 23548009 14Dec06/1145	413-MW-02-GW 23548003 14Dec06/1635	413-MW-03-GW 23548005 14Dec06/1555	Field Blanks 23548001 01Dec06/0900
VOCs (cont'd) (µg/l)						
Ethyl methacrylate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Ethylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Freon-11	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Freon-12	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Hexachlorobutadiene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Isopropylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
m/p-Xylene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Metaerythronitrile	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)
Methyl iodide	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Methyl methacrylate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Methylene chloride	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Methyl tert-butyl-ether	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Naphthalene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
n-Butylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
n-Propylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
o-Xylene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Pentachloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Propionitrile	ND (100.0)	ND (100.0)	ND (100.0)	ND (100.0)	ND (100.0)	ND (100.0)
sec-Butylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Styrene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
tert-Butylbenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Tetrachloroethene	ND (5.0)	2J	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Tetrahydrofuran	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Toluene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
trans-1,2-Dichloroethene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
trans-1,3-Dichloropropene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
trans-1,4-Dichloro-2-butene	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)
Trichloroethene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Vinyl chloride	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
SVOCs (µg/l)						
1,2,4-Trichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
1,2-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
1,3-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
1,4-Dichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2,4,5-Trichlorophenol	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2,4,6-Trichlorophenol	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2,4-Dichlorophenol	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2,4-Dimethylphenol	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	NA
2,4-Dinitrophenol	ND (58.0)	ND (58.0)	ND (58.0)	ND (57.0)	ND (58.0)	NA
2,4-Dinitrotoluene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2,6-Dinitrotoluene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2-Chloronaphthalene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2-Chlorophenol	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2-Methyl-4,6-dinitrophenol	ND (14.0)	ND (14.0)	ND (14.0)	ND (14.0)	ND (15.0)	NA
2-Methylnaphthalene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2-Methylphenol (o-Cresol)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2-Nitroaniline	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
2-Nitrophenol	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
3-Nitroaniline	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
4-Bromophenyl-phenylether	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
4-Chloro-3-methylphenol	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
4-Chloroaniline	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
4-Chlorophenyl-phenylether	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
4-Methylphenol (p-Cresol)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
4-Nitroaniline	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
4-Nitrophenol	ND (29.0)	ND (29.0)	ND (29.0)	ND (29.0)	ND (29.0)	NA
Acenaphthene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Acenaphthylene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Anthracene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Benzo(a)anthracene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Benzo(a)pyrene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Benzo(b)fluoranthene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Benzo(g,h,i)perylene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Benzo(k)fluoranthene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA

Table 7 Summary of Analytical Results for Ground Water at AOPEC No. 16 (continued).

Sample ID USACHPPM Lab Sample ID Sample Date/Time	413-NW-MW1-GW 23548008 14Dec06/1040	413-W-MW1-GW 23548004 14Dec06/1145	413-W-MW1A-GW* 23548009 14Dec06/1145	413-MW-02-GW 23548003 14Dec06/1635	413-MW-03-GW 23548005 14Dec06/1355	Field Blanks 23548001 01Dec06/0900
SVDs (cont'd) (µg/l)						
Benzyl alcohol	ND (14.0)	ND (14.0)	ND (14.0)	ND (14.0)	ND (15.0)	NA
bis(2-Chloroethoxy)methane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
bis(2-Chloroethyl)ether	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
bis(2-chloroisopropyl)ether	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
bis(2-ethylhexyl)phthalate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
1,2,4-Trichlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Butylbenzylphthalate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Chrysene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Dibenz(a,h)anthracene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Dibenzofuran	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Diethylphthalate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Dimethylphthalate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Di-n-butylphthalate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Di-n-octylphthalate	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Fluoranthene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Fluorene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Hexachlorobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Hexachlorobutadiene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Hexachlorocyclopentadiene	ND (14.0)	ND (14.0)	ND (14.0)	ND (14.0)	ND (15.0)	NA
Hexachloroethane	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Indene(1,2,3-cd)pyrene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Isophorone	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Naphthalene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Nitrobenzene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
N-Nitrosodimethylamine	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
N-Nitrosodiphenylamine	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
N-Nitrosodipropylamine	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Penachlorophenol	ND (14.0)	ND (14.0)	ND (14.0)	ND (14.0)	ND (15.0)	NA
Phenanthrene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Phenol	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA
Pyrene	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	NA

Bold indicates analyte found in sample above detection limit; shaded areas represent detected quantity above State action level.

ND (2.0) – Analyte not detected at specified detection limit.

71J – Analyte was detected at quantity below the instrument minimum detection limit and is estimated.

N/A – Not Applicable

NA – Analyte not analyzed in sample.

APPENDIX A
PROJECT LOGBOOK ENTRIES

"*Rite in the Rain*"[®]
ALL-WEATHER WRITING PAPER



FIELD

All-Weather Notebook
No. 351

USAR - G. Pedricktown, N.J
Old Mans Township, N.J

4 5/8" x 7" - 48 Numbered Pages



CONTENTS

REFERENCE

PAGE

DATE

Pedricktown, MD

Name

David Jones
USACHPPM

Address

Beckers Proving Ground, MD

Phone

(410) 436-2345

Project

Foamex Co. Pedricktown, NJ

ADPEC #12

ADPEC #16

Bldg. 434/464

A-3

INCHES

- Taking Over

- Overhead lines
- Water Supply Source
- Staging Area / Decon Area
- Clearance (include turning radius + axis)
- Drill Spills? drums
- Refrig for sample storage / Bldg. Access
- Manholes or Sticks up? - w/ foot room
- Well Keys + Keys to locked access areas, if needed + 6/4g.

(Manno gone until 9 Nov)

- Places to set work.
- Bldg addresses?

* - hospital? *

Drums for till spills - have on-site (new batches)
- be discreet on drum locations

Staging / Decon anywhere

Crane is an issue, / / /

ind art well screening

25 Oct 86

Cp. Pennington, NJ

- 0658 Depart APLG
- 0758 Arrive @ Fair. Cp. Pennington, NJ
- 0805 Go to Ship's hardware
- Emergency purchase of white marking paint
- 0858 Return to Cp. Pennington Guard Gate.
- to meet Paul Fluck - Ft. D. x BRAC POC
- 0928 Paul Fluck arrives @ site.
- 0948 Mark well locations @ Bldg. 434.
- AOPEC #16 + AOPEC #12. (which paint or ground)
- 1015 Discuss logistic issues (See p. 2)
- 1100 Meet USACE personnel to discuss Staging + decon (See below for PIC info)
- 1138 Paul Fluck deposits site. - Take measurements for day period
- 1200 Depart site

USACE - John Carpenter (Machine)
- POC (609) 929-6384 (cell) Key

Water Source @ Camps M-F 7-3:30
+ Camp area ~~changed~~ Key locked

- will allow us to keep rig overnight in compound
- will give us a key to camp.

near Bldg. 434
 Lot #16 (2 wells) Del. Rd.
 #1 Block Int. of Del. Rd. + Depot Ave
 Between 135' - 320' NE on Del. Rd. 135
 and 300' NW from Del. Rd.

Bldg. 434 (1 well)
 #2 Int. of Del. Rd. + Depot Ave
 0 - 370' NW on Depot Ave
 175' NE of emb. of Depot Ave

A-5

ADREG # 12 near Bldg. 506 (2-3 wells)
 Int. of West Rd. + Depot Ave
 0-150' SW on West Rd.
 0-100' SE on Depot Ave.

7 Nov. Spoke w/ John Bickel
 (215) 620-5989
 Oldmans Twp Engineer

- Call him again on Monday 13 Nov,
 he will meet us @ Site + discuss
 the Sanitary Sewer lines.

- called John Carpenter, left
 message that will be on site @
 Ch. Pedestrian, NJ on 13 Nov.

- Dave Board not called, wants
 me to call him after drilling phase
 is complete.

John Ryan
 302 655-2422
 10 S. St. York Pa.

Sub #16 (Cell)
 (717) 259-4302

17 NOV 06

Note: Day 1 Hrs: 12 Hrs.
 T.E.S.: 11.5 Hrs.

0600 Arrive @ AIG
 0620 Depart AIG for Sp. Rockledge, NJ
 0730 Arrive @ Corp. Rockledge, NJ
 Remove equipment from ACE Staging area.

0800 Set-up geophone and Sigsbee
 434-SB-026. Station geologic logs
 from 12'-14'.

0900 Synthesize geophones, drill 11' well
 0915 Set up diller rig. diller 11' well
 1030 Complete construction of 434-MN-02. Bgn drill.
 1045 Setup @ 434-MN-01. Bgn drill.
 1130 Complete construction of 434-MN-01. Set
 1145 lunch

1215 Return to site
 1230 Setup Geophone + Sigsbee 434-SB-03.
 1315 Complete 434-SB-03 Sounding
 1320 Setup Geophone + Sigsbee 434-SB-04.
 1350 Complete 434-SB-04 Sounding
 1415 Setup Geophone 434-SB-05 Sounding
 1415 Complete 434-SB-05 Sounding
 Began down.

13 NOV 06

0600 All personnel met @ Swire Lab

- gather equipment
 0620 Depart AIG for Sp. Rockledge, NJ

0740 Arrive @ Sp. Rockledge, NJ

Begin site
 0830 Bgn drilling @ 434-SB-01 - see log.

0920 First Shot Sigsbee Co.
 Dropped drums (14)

See Flung Armes on site.

1115 Termined 434-SB-01 @ 16' due
 to flung Seab. Built out
 1 and 2. 3rd shot merged

1145 lunch
 1230 Return to site.

Setup @ 434-SB-02.

Began drilling. See log.
 1330 Complete drilling @ 434-SB-02. Bgn

break down for the day - see para. 10.1.1.1.
 Note de ACE Staging area.

1600 Depart site for AIG.
 1615 Arrive at AIG... prepare samples/equip.

1730 Techs signed
 1800 Jems reports
 1815

430 Collect G. Rinsch Sample 134-ER-1

1450 Mixing, to ADK #12, begin sampling @ 12-50-01

1500 Complete 12-50-01

1545 Sample 12-50-02

1520 Complete 12-50-02

1525 Sample 12-50-03

1610 Complete 12-50-03

1630 Collect G. Rinsch 12-ER2

SUC, MESS, T#-DPS, SO9

1635 Move to ACE Storage Area

1645 Deposit in Petrol Station

1640 Arrive @ AP6

1630 Deposit AP6 Home @ 1615

Hours: Mon 12.5

Tue 1.0

Thurs 1.0

Summary: 3 excavations w/ 500 bags to discuss with construction @ 3 sites (see telephone)

Confirmed that wells @ 439

will draw on water just above second plan S&G interface.

S' screen up for interface.

well other wells will be the

same construction as other wells

@ the site. (ADK 12+16)

Notes & data:

- All Soil Samples were Composted in

Stainless Steel mixing bins.

- 439-ER1 was collected by pouring DI H₂O across a split span into a mixing bin, then poured into containers

- 12-ER2 was collected by pouring DI H₂O into a mixing bin and poured into containers.

Notes Log

Descriptions

- 1 Drilling 434-MW-01. 13 Nov 1988
- 2 Supply 434-SB-02 0418.
- 3 Piling 434-SB-02. before
- 4 434-SB-02 used ~~before~~ installation
- 5 Geoprobe supply @ 434-SB-05.
- 6 " " 12-SB-03.

1 SOCI 066

- 0660 All personal items @ AR6
- 06615 Deposit AR6 for Co. Production.
- 0725 America Co. Production, NJ
- 0726 Pick up rig from ACE storage area.
- 0726 Set up to install well @ 434-MW-03.
- 0895 ^{Supply} Complete 434-MW-03
- 0895 Set up to install well @ 434-MW-04
- See log
- 0935 Complete 434-MW-03

0935

1085 Set up to install well @ 12-MW-03
1115 lunch

1130 Talk to Soc. Army. He wants

13' wells @ AR6 # 12 w/ 10' screens
He wants 11' wells w/ 5' screens

@ AR6 # 16.

- Interface w/ gravel Sds 15
at ~ 11' @ AR6 # 16.

- P12-MW-01 is 13' deep w/ a 10' screen

Decision for decision
2000 Finish lunch

1215 Return to 12-MW03 to complete well
 1310 Complete 12-MW03.
 1330 Install 12-MW02. See log.
 1430 Complete 12-MW02.

- will need to check this again
 1445 Mobilize to ACE staging area to clean
 auger

1500 Label drums
 1525 Clean up site. Techs return from
 drum.

1600 Deposit site.
 1705 Arrive @ APC
 1710 Re-fuel truck.
 1720 Arrive @ Sub J. B. in unpaid hole
 1740 Complete project work.

Well	Flow
413-W-MW1	16.77'
413-NW-MW1	16.49'
413-MW-01	13.30'
413-MW-02	11.48'

16 NOV 06

0600 Arrive @ APC
 0615 Depart APC for Cap. Reductham, NJ
 0720 Arrive @ Cap. Reductham.

Mobilize to ACE Staging Area.
 0730 Set up on 413-MW-02 (16-MW02) to
 install well.

2830 Complete 413-MW-02 (16-MW02).
 4840 Set up on 413-MW-03 (16-MW03) to
 install well.

0841 Called Jimmy Short of NJ DEP -
 Bureau of Water Pollution. Told her

we would not be using all of our
 applied permit numbers. She will
 send a cancellation form to the office
 for the unused numbers.

1800 Complete 413-MW-03 (16-MW03)
 - Begin prep for pool construction
 + cleaning site

1045 Mobilize to ACE Staging area
 to clean auger.

1120 lunch

1240 Return to state Bury. well
 clean up

1424 ~~Begin~~ high wind + rain, describe well development. Camp site.
 1430 depart Cp. Belvidere
 - than taking my back to ALG.
 - Jan + Plans to Home Depot to pickup cement + concrete + 4" expandable caps (2)

50% home from Dept
 - we heard of Campbell caps
 - 20 bags of concrete
 1538 Depart Home Depot in Chestnut, DE
 1540 Arrive @ ALG. Setup truck.
 1730 Get sticky second
 1736 Get project work

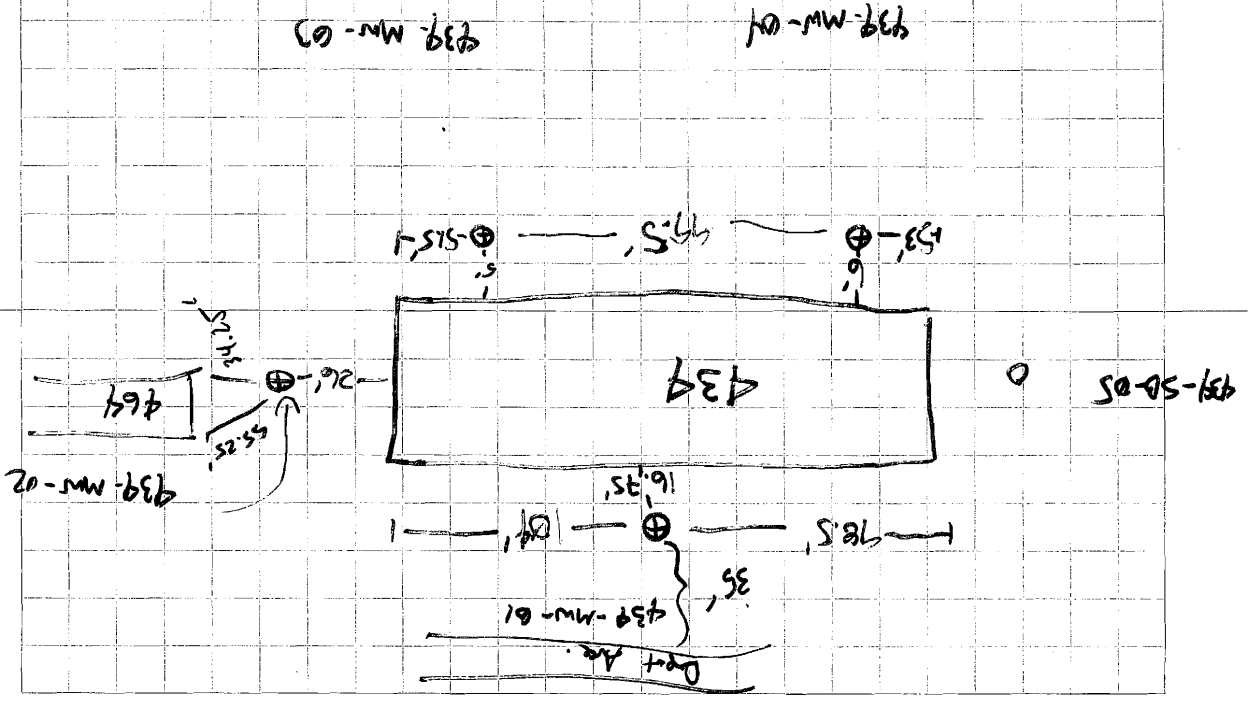
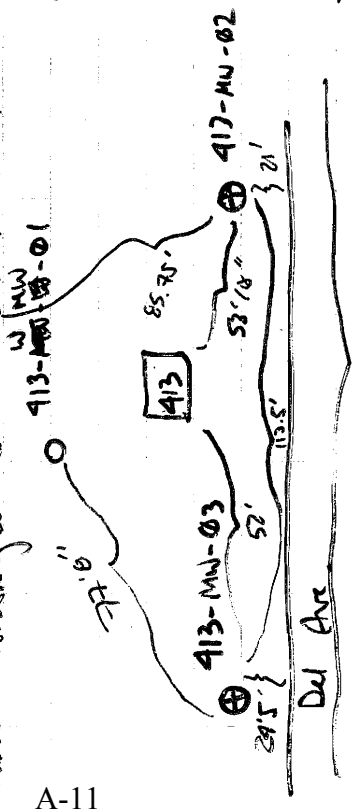
Down/Done 11 hrs
 Parking 10.5 hrs

0806 Invo @ ALG			
0819 Deposit ALG for Cp. Planning			
0724 Home @ Cp. for Chestnut, DE			
- Get water from ALG. Storage area			
0806 Set up for well development. See log			
+ construct well pads @ 10-MW01 + 10-MW02			
0915 Begin surveying @ 10-MW01 + 12			
	12-MW1	13.30'	
	BS ±	ELEV.	
	12-MW2	3.07	13.38'
	12-MW3	3.39	13.08'
0930 Set up to develop 413-MW-03			
See log			
	413-MW1	16.77'	
	BS ±	ELEV	
	413-MW-04	7.44	5.78'
	413-MW-03	7.72	5.50'
	413-MW-3	5.29	17.93'
	413-MW-2	6.34	16.88'
	Black Top	7.03	16.19'

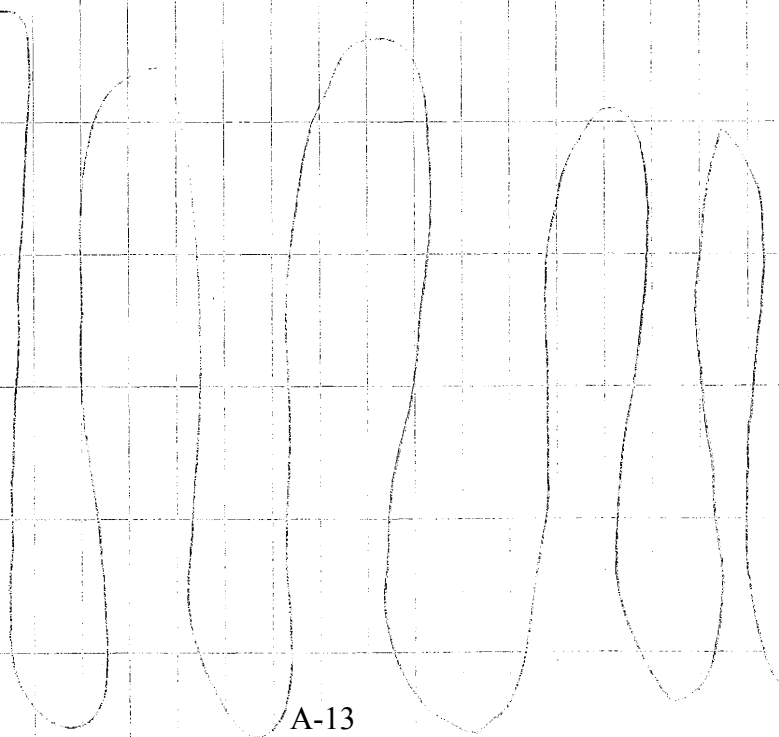
BS	MI	fS	Black Top
Black Top	4.35	20.54	6.19'
439-MW-01	4.69		5.28V
439-MW-02	6.05		15.85'
			<u>14.49'</u>

1236 inch
 15% Return to site Finish Survey, Finish well design, drill crop holes on Sidchips' measure working wells

A-11



Groundwater samples @ Ferrisport, NY
 30 NOV 06 PLAINES CALIBRATED LOW FLOW UNIT # 3
 FARRO CALLS FIELD SUPPLIES FOR
 PROTECT (TOWELS, TANKS, GLOVES, ETC...)
 SEE EQUIPMENT CALIBRATION FORMS
 FOR DETAILS.



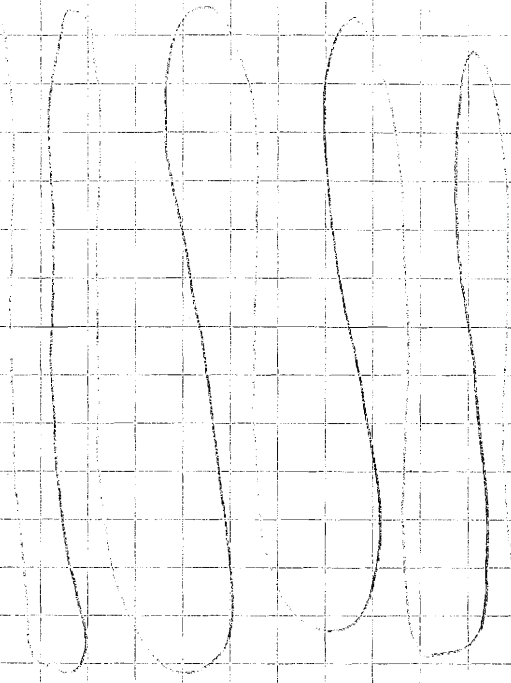
NOTHING FOLLOWS

30 NOV 06 Mark E. Ferris

4 DEC

NOTE: ON 30 NOV SAMPLE TURBUNT,
 PUMP CONNECTORS WERE DELIVERED TO
 LAB FOR CERTIFIED CLEANING.
 FARRO CALIBRATED (IN LOW FLOW UNIT #6)
 WATER LEVEL INDICATORS (E/M 11738 AND
 S/N: 244734), TURBIDITY METERS (S/N 2338
 & 2942-4501). ALL CALIBRATION
 FORMS ARE AVAILABLE FOR REVIEW AND LEGIT
 INQUIRY.

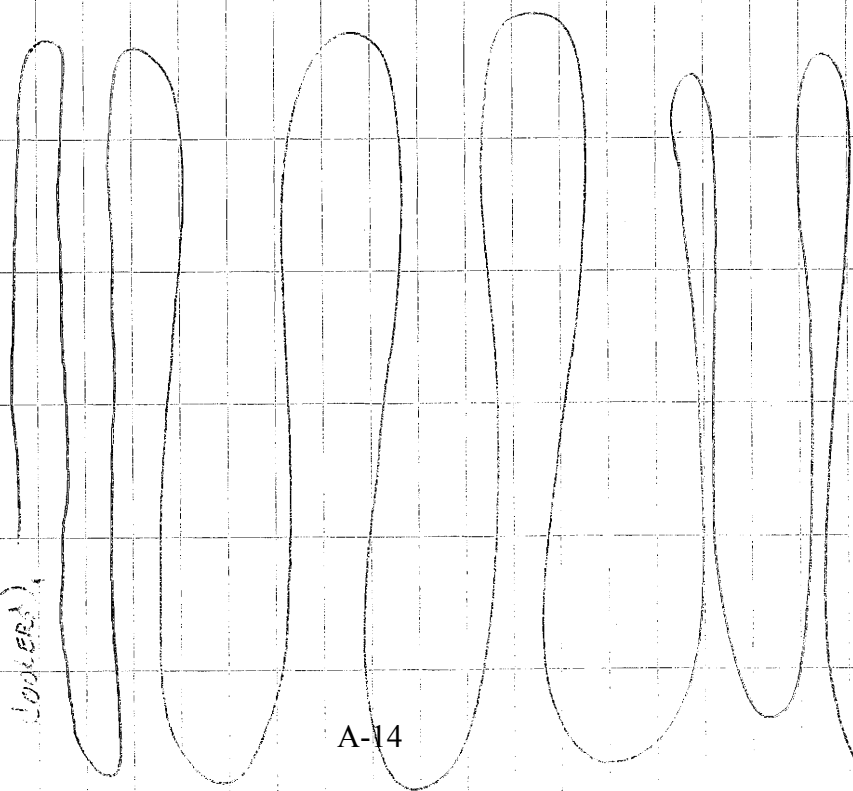
PICKED UP TURBUNT PUMPS FROM
 THE LAB.



NOTHING FOLLOWS

4 DEC 06 Mark E. Ferris

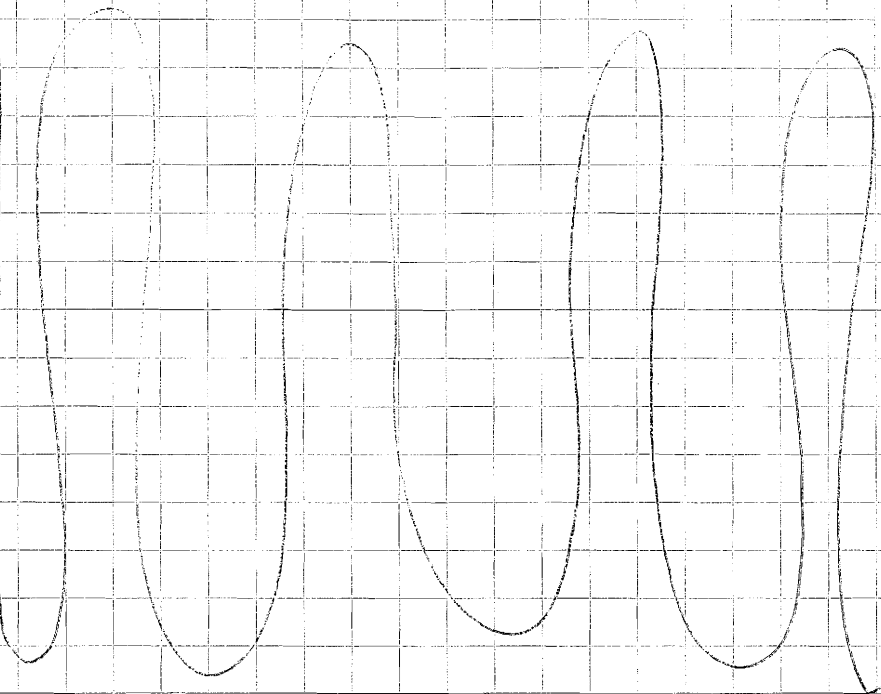
5 SPECIAL
 PICKED UP SAMPLE BOTTLES & FORMS
 INSPECTED ORDER (AS SPECIATION BOTTLES,
 NOT READY YET), PREPARED SAMPLE
 COULERS (DIVIDED BOTTLES & LABELED
 COUNTERS).



NOTHING FOLLOWS—

5 DEC 2006 Mark E Fano

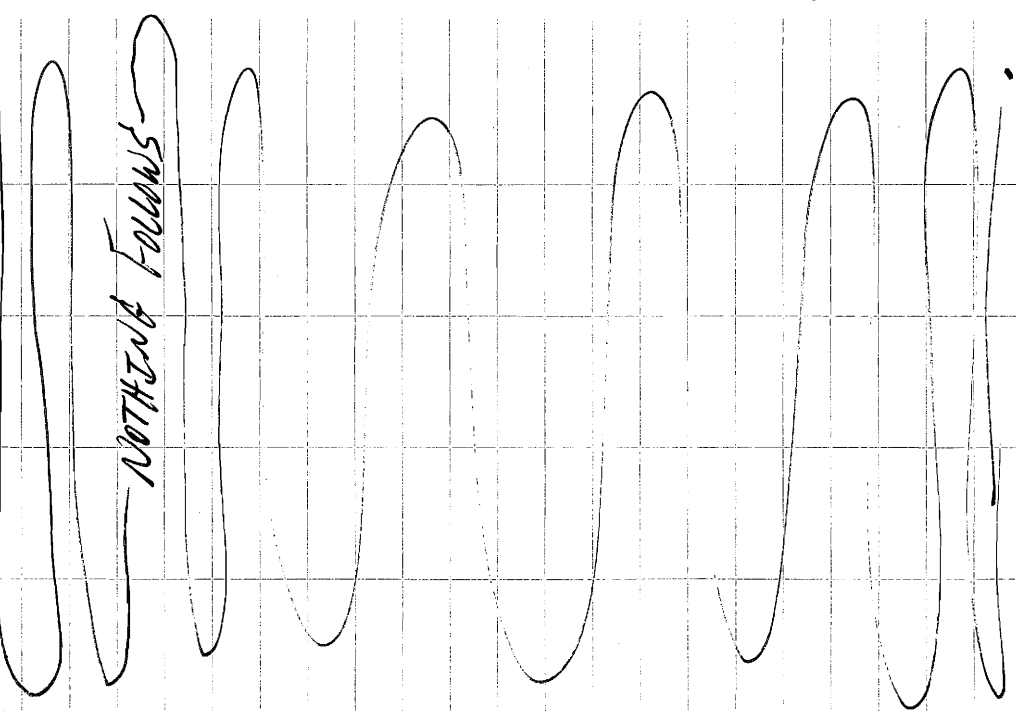
6 DEC 2006
 PICKED UP AS SPECIATION BOTTLES
 FROM LAB. LABELED SAMPLE BOTTLES
 FINISHED PREPPING EQUIP.



NOTHING FOLLOWS—

6 DEC 2006 Mark E Fano

7 DEC 2006
LABELED SULFATE BOTTLES & DISTRIBUTED TO PROPER SAMPLE COOLER.



NOTHING FOLLOWS

7 DEC 06 7:00 PM Flow

CLAMP REPERCUSSIONS NOT 13 DEC 2006
 0600 FARRO LOADED TRUCK & DEPARTED CUL ST.
 0944 STARTED COLLECTING W/L MEASUREMENTS AT D
 WELL W/L METEOROLOGICAL LAB 1
 NAME: GEOPROBE
 AFTER END PROBS, THE UNIT WAS REPOWERED
 W/ LEADER ALLOWING/DESIGNED WATER CONTROL
 THE UNIT WAS THEN REWED WITH RESISTOR
 H2O FROM WASHINGTON LABS SAMPLE MFG. CO. I
 AT THE COMPLETION OF COLLECTIONS W/ L
 TD DATA AT THE 614-434434 WELL
 FIELDS A DISPOSABLE PAILER WAS
 UTILIZED TO FILL WELL # 134-174-01
 (LOW YIELDING WELL). THE WELL
 WENT DRY AFTER FILLING APPROX 1.5 GALLONS
 REMOVED ALL MEASUREMENTS AT THE NW
 END OF THE SITE.
 RUN# 1115-11250
 PURGED NEW # 134-174-01 DRAIN REMOVED
 APPROX 0.5 GAL FRESH PRESSED LUBRICANTS
 1320 BEGAN SAMPLING WELL 134-174-01-01
 SEE GW SAMPLING LOG, 1/12/06
 LOW FLOW K1 LF-6 (SEE ALL FOR CHANGES)
 TEMPORARY METEOR. LOG 1326-1338

13 DEC 2006 7:00 PM Flow

CAMP PEPPERIDGE TOWN NT. 13 DEC 2006

1350 SAMPLED WELL 434-MW-01 w/
DEDICATED (FOR THE DAY) DISPOSABLE NEETER.
FOLLOWING SAMPLES FIELD WATER
QUALITY MEASUREMENTS WERE TAKEN.
SEE GW SAMPLING LOG FOR DETAILS.

1430 BEGAN PURGING WELL 434-MW-03

1610 SAMPLED WELL # ONE A DURECATE
FOR AS SPECIATION, EXPLOSIVES & METALS.
DUP SAMPLE ID IS 434-MW-03A-GW.

1643 BEGAN PURGING WELL 434-MW-04.
SAMPLED WELL AT 1736.

ALL WELLS WERE SAMPLED
UTILIZING DISPOSABLE EQUIP.
ALL SAMPLES WERE PRESERVED ON
SITE AT THE TIME OF COLLECTION.
SAMPLES WERE SECURED FOR
TRANSPORT.

TRANSFERRED SAMPLES TO SOILS LAB,
RECEIVED & COMPLETED THE CHAIN
OF CUSTODY FORMS. SAMPLES WERE
SECURED AND SECURITY SEALS INTACT.
HOWEVER LEFT FOR MEETING & FARRU
PERFORMED RECEIVING, COC, EQUIP/SOILS
SAMPLE NT.

13 DEC 2006 Mark Flann

A-16

CAMP PEPPERIDGE TOWN NT. 14 DEC 2006

0600 LOADED VAC FLANKS.
0610 REENTERED AFG FOR MNT SITE.
0739 ARRIVED AT SITE
BEGAN SETTING UP EQUIPMENT, JERSEY
THE SAME INSTRUMENT AS THE PREVIOUS
DAY. PERFORMED FEET CHECKS ON ALL
UNITS. SEE FIELD CHECKS FORMS.
BEGAN ~~TO~~ PURGING AT 0815 ON
WELL 413-MW-02.

0925 SAMPLED ABOVE WELL. SAMPLE ID IS
413-MW-02-GW, M3/MST TAKEN FOR
VOCs + TPH-GRO (413-MW-02-GW-M3)
(413-MW-02-GW-M3D)

NOTE: HUL 1:1 (LOT HA4240060) EXPIRES 9/27/05.
BEGAN PURGING 413-NW-MW1 AT 1020.
BEGAN SAMPLING AT 1040. SAMPLE ID IS 413-NW-MW1-GW.

1125 BEGAN PURGING 413-W-MW1.
1145 SAMPLED WELL, ID 413-W-MW1-GW. DUPLICATE
TAKEN FOR: VOC, TPH-DRO, SULFATE, METALS,
TPH-GRO & SODs.

DUP SAMPLE ID # 413-W-MW1A-GW.
LUNCH 1213

13 DEC 2006 Mark Flann

1725 STOP REPRESENTING MS. 2000
 1735 REBAR INSERTED AT 13 MW-03.
 1755 SAMPLED BELOW WELL, SAMPLE ID SEVEN
 IS 12-MW-03-GW.
 BATHROOM REBAR LABEL A FEW WELLS.
 1850 START FRESH WELL 13-MW-01.
 1835 SAMPLED 13-MW-01, SAMPLE ID
 WILL BE 13-MW-01-GW.
 1600 RECONSTRUCTING WELL 12-MW-02.
 1635 SAMPLED ABOVE WELL + GAVE IT AN
 ID OF 12-MW-02-GW FOR THE
 GW SAMPLE
 INSTALLED SOME RETAINMENT CAGES
 ON WELLS.
 1700 COMMENTS PAGING IN MW (12-MW-03)
 TURBIDITY WAS AT 18 NTU WHEN SAMPLED
 DUE TO THE LATENESS + SLOWER RATE
 OF DEPLETION.
 1735 GW SAMPLE COLLECTED FOR A FINE WELLS.
 FROM A SAMPLE ID OF 12-MW-03-GW.
 5000 MS/MST TAKEN (12-MW-03-GW-MS)
 (12-MW-03-GW-MSD)
 SAMPLES WERE SECURED FOR TRANSPORT.
 SITE CLEANED UP + SECURED ALL WELLS.
 BUILT MORE ICE + ICED DOWN SAMPLES

14 FEB 2000 Mark Finner

1800 SAMPLES SHIPPED AT 17:55
 WITH ADDITIONAL FIVE.
 TRANSPORT SAMPLES TO ANS WELLS.
 HUNTER LEFT TO PICK UP SON
 1830 WANTED TO GET 4 MORE, BUT
 COMPLETED LOG + ARRANGED FOR LOG.
 SECURED SAMPLES + WELLS
 SECURITY SEALS
 NOTHING FOLLOWING
 1900
 1930
 2000

14 DEC 2000 Mark Finner

CAMP PERRY/DOWN, ANT ¹⁵ DEC 2006

0600 RECEIVED SAMPLES, CLEANED

METERS + CHECKED CALIBRATION.

0900 DELIVERED SAMPLES TO

CHPPM SAMPLE MGT LAB

CHAIN OF CUSTODIES SIGNED +

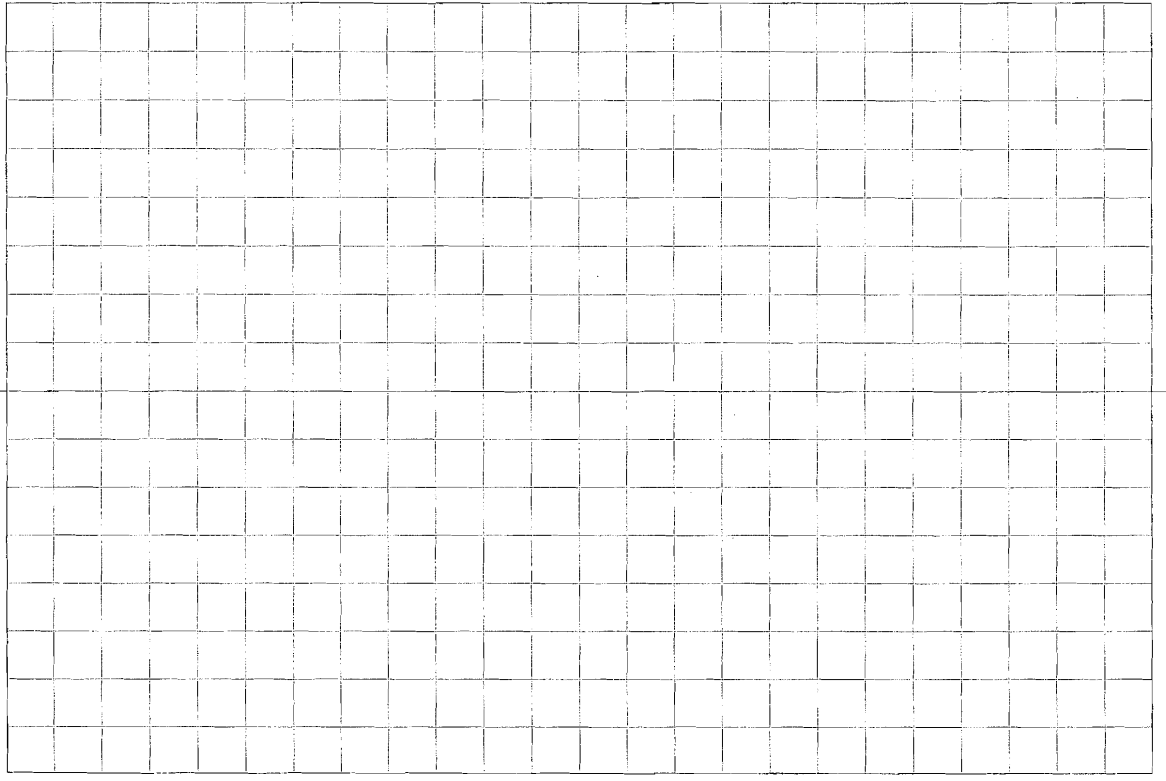
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NOTHING FOLLOWS



A-18

15 DEC 2006 Mark ^{Thompson}



APPENDIX B
GEOLOGIC LOGS



434-MW-01

NJ DEP Permit No. 3000019158

Camp Pedricktown, New Jersey
 AOPEC'S #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 13 Nov. 2006

Drill Rig : CME-85
 Drill Method : Auger
 Sample Method : Splitspoon
 Hole Diameter : 8 1/4"

Depth in Feet	GRAPHIC	USCS	SAMPLE	DESCRIPTION	Well Construction
0		asphalt		0 to 4" Asphalt and sub-base	Auger 4 1/4" ID Flush mount protective well cover. WELL PIPE: 2" PVC Sch. 40 Screen slot .010 Sand pack size: No. 2
1		sp	434-SB-01-0618 0900	4" to 2' Light brown and orange, fine sand. Moist.	
2		sw	434-SB-01-1830 0915	2' to 11' Tan/ light brown, fine to medium sand. Moist.	
3			434-SB-01-3042 0915		
4					
5					
6					
7					
8					
9					
10					
11					
12		sw/gw		11' to 13' Yellow sand and gravel. Wet	
13				No soil cutting returns	
14					
15					
16			Terminated drilling at 16'		

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434-MW-02

NJ DEP Permit No. 3000019159

Camp Pedricktown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 13 Nov. 2006

Drill Rig : CME-85
 Drill Method : Auger
 Sample Method : Splitspoon
 Hole Diameter : 8 1/4"

Depth in Feet	GRAPHIC	USCS	SAMPLE	DESCRIPTION	Well Construction
0	<p>434-MW-02</p> <p>Concrete</p> <p>Bentonite</p> <p>2" Riser</p> <p>Sand</p> <p>2" Screen</p>	fill		0 to 7" Black, coal slag, fill	Auger 4 1/4" ID Flush mount protective well cover. WELL PIPE: 2" PVC Sch. 40 Screen slot .010 Sand pack size: No. 2
1			434-SB-02-0618 1330	7" to 3' Orange- brown fine sand trace of silt. Moist.	
2		sp	434-SB-02-1830 1400 434-SB-02-3042 1400		
3			434-SB-02A-1830 1400	3' to 11' Yellowish- brown fine to medium sand. Wet.	
4		sw			
5				11' to 13' Yellowish- orange sand and gravel. Wet.	
6		sw/gw			
7				Bottom of hole. 13'	
8					
9					
10					
11					
12					
13					
14					
15					



434-MW-03

NJ DEP Permit No. 3000019160

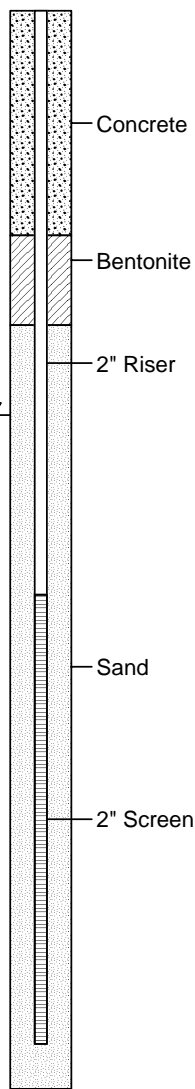
Camp Pedrickown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 14 Nov. 2006

Drill Rig : CME-85
 Drill Method : Auger
 Sample Method : Splitspoon
 Hole Diameter : 8 1/4"

Depth in Feet	GRAPHIC	USCS	SAMPLE	DESCRIPTION	Well Construction
0		hu		0 to 3" Organic Humus	
1		sp	434-SB-03-0618 1250	3" to 2' Blackish greenish grey fine sand. Moist.	Auger 4 1/4" ID Flush mount protective well cover.
2			434-SB-03-1830 1250		
3			434-SB-03-3042 1250	2' to 11' Orange- brown fine sand grading to a fine to medium sand. Moist to wet.	WELL PIPE: 2" PVC Sch. 40 Screen slot .010
4					Sand pack size: No. 2
5					
6		sp/sw			
7					
8					
9					
10					
11		sw/gw		11' to 12' Greenish brown coarse sand and gravel. Wet.	
12				Bottom of hole 12'	
13					
14					
15					

434-MW-03



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434-MW-04

NJ DEP Permit No. 3000019161

Camp Pedricktown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 14 Nov. 2006

Drill Rig : CME-85
 Drill Method : Auger
 Sample Method : Splitspoon
 Hole Diameter : 8 1/4"

Depth in Feet	434-MW-04	GRAPHIC	USCS	SAMPLE	DESCRIPTION	Well Construction
0			hu		0 to 3" Organic Humus	
1	Concrete		fill	434-SB-04-0618 1330	3" to 2.5' Dark brown to black sand and gravel fill. (bricks, coal slag). Moist.	Auger 4 1/4" ID Flush mount protective well cover.
2	Bentonite			434-SB-04-1330 1330		
3	2" Riser		sp/sw	434-SB-04-3042 1330	2.5' to 11' Tan, light brown fine sand grading to fine to medium sand. Wet.	WELL PIPE: 2" PVC Sch. 40 Screen slot .010 Sand pack size: No. 2
4						
7	Sand					
9	2" Screen		sw/gw		11' to 12' Greenish brown sand and gravel. Wet.	
12					Bottom of hole 12'	
13						
14						
15						

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413-MW-02
NJ DEP Permit 3000019162

Camp Pedricktown, New Jersey
AOPEC's #12, 16, and Bldg. 434
U.S. Army Reserve Command
38-MA-0606

Geologist : Dave Jones
Drill Crew : Rocky Hoover
Date : 15 Nov. 2006

Drill Rig : CME-85
Drill Method : Auger
Hole Diameter : 8 1/4"

Depth in Feet	GRAPHIC	USCS	DESCRIPTION	Well Construction
0		hu	0 to 5" Humus	Auger 4 1/4" ID Flush mount protective well cover. WELL PIPE: 2" PVC Sch. 40 Screen slot .010 Sand pack size: No. 2
1		sp/sw	5" to 11' Tan/ light brown fine sand grading to a fine to medium sand. Moist to wet.	
6			11' to 13' Yellow sand and gravel. Wet.	
13			Bottom of hole 13'	

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413-MW-03

NJ DEP Permit No. 3000019163

Camp Pedricktown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 15 Nov. 2006

Drill Rig : CME-85
 Drill Method : Auger
 Hole Diameter : 8 1/4"

Depth in Feet	413-MW-03	GRAPHIC	USCS	DESCRIPTION	Well Construction
0			gravel	0-5" Gravel, sub base. Dry.	
1				5" to 11' Tan/ light brown fine sand grading to fine to medium sand. Moist to wet.	Auger 4 1/4" ID Flush mount protective well cover. WELL PIPE: 2" PVC Sch. 40 Screen slot .010 Sand pack size: No. 2
2	Concrete				
3	Bentonite				
4	2" Riser				
5			sp/sw		
6					
7					
8	Sand				
9					
10	2" Screen				
11					
12			sw/gw	11' to 13' Yellow sand and gravel. Wet.	
13				Bottom of hole 13'	
14					
15					

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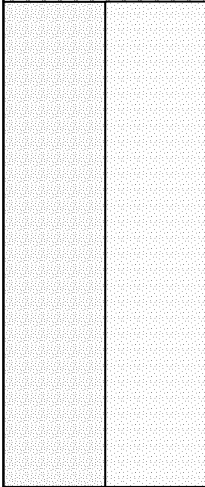

434-SB-05

NJ DEP Permit No. 3000019166

Camp Pedricktown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 Date : 14 Nov. 2006

Drill Rig : Geoprobe
 Drill Method : Direct Push
 Sample Method : 4' Sample Tube
 Hole Diameter : 3"

Depth in Feet	SAMPLE	GRAPHIC	USCS	DESCRIPTION
0	434-SB-05-0618 1400		hu	0 to 4" Organic Humus
1 2 3 4	434-SB-05-1830 1400 434-SB-05-3042 1400		sp/sw	4" to 4' Orange -brown fine to medium sand. Moist.
4				Bottom of hole 4'
5 6 7 8 9 10				

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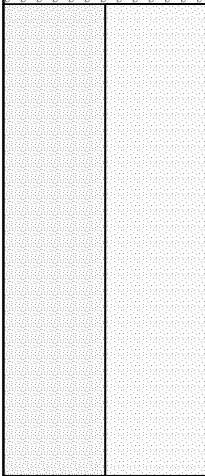

12-SB-01

NJ DEP Permit No. 3000019165

Camp Pedricktown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 14 Nov. 2006

Drill Rig : Geoprobe
 Drill Method : Direct Push
 Sample Method : 4' Sample Tube
 Hole Diameter : 3"

Depth in Feet	SAMPLE	GRAPHIC	USCS	DESCRIPTION
0			hu	0 to 5" Organic humus
1 2 3 4	12-SB-01-1830 1455		sp/sw	5" to 4' Orange -brown fine sand. Grading to fine to medium sand. Moist to wet.
4				Bottom of hole 4'
5 6 7 8 9 10				



12-MW-02

NJ DEP Permit No. 3000019156

Camp Pedricktown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 15 Nov. 2006

Drill Rig : CME-85
 Drill Method : Auger
 Sample Method : Splitspoon
 Hole Diameter : 8 1/4"

Depth in Feet	GRAPHIC	USCS	SAMPLE	DESCRIPTION	Well Construction
0	Concrete	hu		0 to 5" Organic Humus	
1	Bentonite			5" to 11' Tan/ light brown fine to medium sand. Moist.	Auger 4 1/4" ID
2	2" Riser		12-SB-02-1830 1510		Steel stand up protective well casing.
3					WELL PIPE: 2" PVC Sch. 40 Screen slot .010
4					Sand pack size: No. 2
5					
6		sw/sp			
7					
8	Sand				
9	2" Screen				
10					
11				11' to 13.5' Yellow sand and gravel. Wet.	
12		sw/gw			
13					
14				Bottom of hole 13.5'.	
15					

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12-MW-03

NJ DEP Permit No. 3000019157

Camp Pedricktown, New Jersey
 AOPEC's #12, 16, and Bldg. 434
 U.S. Army Reserve Command
 38-MA-0606

Geologist : Dave Jones
 Drill Crew : Rocky Hoover
 : Duane Maners
 Date : 15 Nov. 2006

Drill Rig : CME-85
 Drill Method : Auger
 Sample Method : Splitspoon
 Hole Diameter : 8 1/4"

Depth in Feet	12-MW-03	GRAPHIC	USCS	SAMPLE	DESCRIPTION	Well Construction
0	Concrete		hu		0 to 5" Humus	Auger 4 1/4" ID Steel stand up protective well casing. WELL PIPE: 2" PVC Sch. 40 Screen slot .010 Sand Pack size: No. 2
1	Bentonite			12-SB-03-1830 1530	5" to 12' Tan/ light brown fine to medium sand. Moist to wet.	
2	2" Riser			12-SB-03A-1830 1530		
3						
4						
5						
6						
7	Sand		sp/sw			
8	2" Screen					
9						
10						
11						
12						
13			sw/gw		12' to 13.5' Yellow sand and gravel. Wet.	
14						
15					Bottom of hole 13.5	

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APPENDIX C
SOILS LABORATORY DATA PACKAGES



SVOE

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES (DLS)
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403
(410) 436-2208

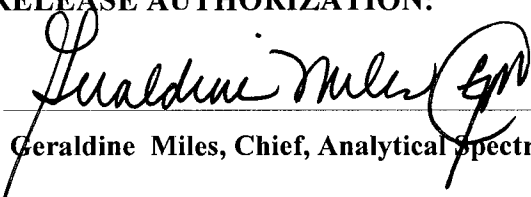
FINAL ANALYTICAL REPORT

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32204 DLS WORK ORDER #: 23164
REPORT SERIAL NUMBER: 319502

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature:  Date: 12/15/04
Geraldine Miles, Chief, Analytical Spectrometry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

PROFILE NUMBER: 32204-0606
WORKORDER #: 23164
PROJECT SITE: Camp Pedricktown
CLIENT: Mr. David Jones
METHOD NUMBER: ASD SOP #SV72.9
REPORT DATE: 14 December 2006

Provided are the results for the SVOC analysis of four soil samples submitted from Camp Pedricktown. The samples were collected on 14 November 2006 and received into DLS on 15 November 2006. The samples were received at 8°C, which is not within the acceptable temperature range of 2-6°C.

Sample Preparation

The samples were extracted in accordance with EPA Method 3545 on 20 November 2006, meeting the 14-day extraction holding time.

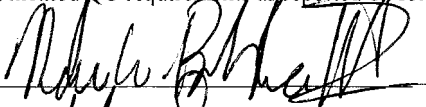



Sample Analysis

The samples were analyzed on 27 November 2006 in accordance with EPA Method 8270C and ASD SOP #SV72.9, with all analytical holding times being met. Target phthalates were detected in all samples as reported on the form 1's.

Quality Control

Two Laboratory Control Spikes (LCS/LCSDUP) were analyzed with most recoveries meeting the quality control limits as reported on the recovery forms. The reported recovery of n-nitrosodimethylamine was slightly high, but indicated no loss during extraction. Sample 12-SB-03A-1830 was used as a matrix spike (MS) and matrix spike duplicate (MSD), with most compounds meeting the QC criteria except for some high relative percent differences (RPD) of a few problem compounds. This is not thought to affect the results for the samples. Several compounds were manually integrated due to the limited capabilities of the data analysis software.

All surrogate recoveries were within quality control limits as reported on form 2. All reported internal standard area counts and retention times complied with method QC requirements as reported on form 8.

Extractionist:  Date: 15 Dec 2006
 Project Analyst:  Date: 15 Dec. 2006
 Technical Reviewer:  Date: 15 Dec 2006
 Administrative Reviewer:  Date: 15 Dec 2006

Report POC: Jennifer Seeger, GC/MS Team Leader (410) 436-8280

Listing of Report Contents:

Section	Beginning Page	Section	Beginning Page
Cover Letter	1	Quality Control Report	12
Case Narrative	2	Terminology/Abbreviations/Codes	40
Sample Summary	3	Chain of Custody Documents	41
Results of Analysis (Form 1's)	4	Total Number of Pages in report	44

SAMPLE SUMMARY

Field Number	Date Collected	LISMD Number	Data File Number	Matrix
12-SB-01-1830	11/14/2006	23164010	S4S8N095.D	Soil
12-SB-02-1830	11/14/2006	23164011	S4S8N096.D	Soil
12-SB-03-1830	11/14/2006	23164012	S4S8N097.D	Soil
12-SB-03A-1830	11/14/2006	23164013	S4S8N098.D	Soil
		23164013MS	M4S8N099.D	Soil
		23164013MSD	M4S8N100.D	Soil

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-01-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164010
 Sample wt/vol: 30 (g/ml) G Lab File ID: S4S8N095.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 11.3 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine	380		U
111-44-4	bis(2-Chloroethyl)ether	380		U
108-95-2	Phenol	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
100-51-6	Benzyl alcohol	380		U
108-60-1	bis(2-chloroisopropyl)ether	380		U
95-48-7	2-Methylphenol	380		U
67-72-1	Hexachloroethane	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
106-44-5	4-Methylphenol	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	380		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	380		U
208-96-8	Acenaphthylene	380		U
131-11-3	Dimethylphthalate	380		U
606-20-2	2,6-Dinitrotoluene	380		U
83-32-9	Acenaphthene	380		U
99-09-2	3-Nitroaniline	380		U
51-28-5	2,4-Dinitrophenol	380		U
132-64-9	Dibenzofuran	380		U

1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-01-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164010
 Sample wt/vol: 30 (g/ml) G Lab File ID: S4S8N095.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 11.3 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene	380		U
100-02-7	4-Nitrophenol	380		U
86-73-7	Fluorene	380		U
7005-72-3	4-Chlorophenyl-phenylether	380		U
84-66-2	Diethylphthalate	380		U
100-01-6	4-Nitroaniline	380		U
534-52-1	4,6-Dinitro-2-methylphenol	380		U
86-30-6	n-Nitrosodiphenylamine	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	380		U
85-01-8	Phenanthrene	380		U
120-12-7	Anthracene	380		U
84-74-2	Di-n-butylphthalate	380		U
206-44-0	Fluoranthene	380		U
129-00-0	Pyrene	380		U
85-68-7	Butylbenzylphthalate	380		U
56-55-3	Benzo[a]anthracene	380		U
218-01-9	Chrysene	380		U
117-81-7	bis(2-Ethylhexyl)phthalate	1100		
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo[b]fluoranthene	380		U
207-08-9	Benzo[k]fluoranthene	380		U
50-32-8	Benzo[a]pyrene	380		U
193-39-5	Indeno[1,2,3-cd]pyrene	380		U
53-70-3	Dibenz[a,h]anthracene	380		U
191-24-2	Benzo[g,h,i]perylene	380		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-02-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164011
 Sample wt/vol: 30.01 (g/ml) G Lab File ID: S4S8N096.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.8 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine	370		U
111-44-4	bis(2-Chloroethyl)ether	370		U
108-95-2	Phenol	370		U
95-57-8	2-Chlorophenol	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
95-50-1	1,2-Dichlorobenzene	370		U
100-51-6	Benzyl alcohol	370		U
108-60-1	bis(2-chloroisopropyl)ether	370		U
95-48-7	2-Methylphenol	370		U
67-72-1	Hexachloroethane	370		U
621-64-7	N-Nitroso-di-n-propylamine	370		U
106-44-5	4-Methylphenol	370		U
98-95-3	Nitrobenzene	370		U
78-59-1	Isophorone	370		U
88-75-5	2-Nitrophenol	370		U
105-67-9	2,4-Dimethylphenol	370		U
111-91-1	bis(2-Chloroethoxy)methane	370		U
120-83-2	2,4-Dichlorophenol	370		U
120-82-1	1,2,4-Trichlorobenzene	370		U
91-20-3	Naphthalene	370		U
106-47-8	4-Chloroaniline	370		U
87-68-3	Hexachlorobutadiene	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-57-6	2-Methylnaphthalene	370		U
77-47-4	Hexachlorocyclopentadiene	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
91-58-7	2-Chloronaphthalene	370		U
88-74-4	2-Nitroaniline	370		U
208-96-8	Acenaphthylene	370		U
131-11-3	Dimethylphthalate	370		U
606-20-2	2,6-Dinitrotoluene	370		U
83-32-9	Acenaphthene	370		U
99-09-2	3-Nitroaniline	370		U
51-28-5	2,4-Dinitrophenol	370		U
132-64-9	Dibenzofuran	370		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-02-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164011
 Sample wt/vol: 30.01 (g/ml) G Lab File ID: S4S8N096.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.8 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene		370	U
100-02-7	4-Nitrophenol		370	U
86-73-7	Fluorene		370	U
7005-72-3	4-Chlorophenyl-phenylether		370	U
84-66-2	Diethylphthalate		190	J
100-01-6	4-Nitroaniline		370	U
534-52-1	4,6-Dinitro-2-methylphenol		370	U
86-30-6	n-Nitrosodiphenylamine		370	U
101-55-3	4-Bromophenyl-phenylether		370	U
118-74-1	Hexachlorobenzene		370	U
87-86-5	Pentachlorophenol		370	U
85-01-8	Phenanthrene		370	U
120-12-7	Anthracene		370	U
84-74-2	Di-n-butylphthalate		370	U
206-44-0	Fluoranthene		370	U
129-00-0	Pyrene		370	U
85-68-7	Butylbenzylphthalate		370	U
56-55-3	Benzo[a]anthracene		370	U
218-01-9	Chrysene		370	U
117-81-7	bis(2-Ethylhexyl)phthalate		670	
117-84-0	Di-n-octylphthalate		370	U
205-99-2	Benzo[b]fluoranthene		370	U
207-08-9	Benzo[k]fluoranthene		370	U
50-32-8	Benzo[a]pyrene		370	U
193-39-5	Indeno[1,2,3-cd]pyrene		370	U
53-70-3	Dibenz[a,h]anthracene		370	U
191-24-2	Benzo[g,h,i]perylene		370	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-03-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164012
 Sample wt/vol: 30.01 (g/ml) G Lab File ID: S4S8N097.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.6 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine	370		U
111-44-4	bis(2-Chloroethyl)ether	370		U
108-95-2	Phenol	370		U
95-57-8	2-Chlorophenol	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
95-50-1	1,2-Dichlorobenzene	370		U
100-51-6	Benzyl alcohol	370		U
108-60-1	bis(2-chloroisopropyl)ether	370		U
95-48-7	2-Methylphenol	370		U
67-72-1	Hexachloroethane	370		U
621-64-7	N-Nitroso-di-n-propylamine	370		U
106-44-5	4-Methylphenol	370		U
98-95-3	Nitrobenzene	370		U
78-59-1	Isophorone	370		U
88-75-5	2-Nitrophenol	370		U
105-67-9	2,4-Dimethylphenol	370		U
111-91-1	bis(2-Chloroethoxy)methane	370		U
120-83-2	2,4-Dichlorophenol	370		U
120-82-1	1,2,4-Trichlorobenzene	370		U
91-20-3	Naphthalene	370		U
106-47-8	4-Chloroaniline	370		U
87-68-3	Hexachlorobutadiene	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-57-6	2-Methylnaphthalene	370		U
77-47-4	Hexachlorocyclopentadiene	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
91-58-7	2-Chloronaphthalene	370		U
88-74-4	2-Nitroaniline	370		U
208-96-8	Acenaphthylene	370		U
131-11-3	Dimethylphthalate	370		U
606-20-2	2,6-Dinitrotoluene	370		U
83-32-9	Acenaphthene	370		U
99-09-2	3-Nitroaniline	370		U
51-28-5	2,4-Dinitrophenol	370		U
132-64-9	Dibenzofuran	370		U

1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-03-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164012
 Sample wt/vol: 30.01 (g/ml) G Lab File ID: S4S8N097.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.6 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene	370		U
100-02-7	4-Nitrophenol	370		U
86-73-7	Fluorene	370		U
7005-72-3	4-Chlorophenyl-phenylether	370		U
84-66-2	Diethylphthalate	370		U
100-01-6	4-Nitroaniline	370		U
534-52-1	4,6-Dinitro-2-methylphenol	370		U
86-30-6	n-Nitrosodiphenylamine	370		U
101-55-3	4-Bromophenyl-phenylether	370		U
118-74-1	Hexachlorobenzene	370		U
87-86-5	Pentachlorophenol	370		U
85-01-8	Phenanthrene	370		U
120-12-7	Anthracene	370		U
84-74-2	Di-n-butylphthalate	370		U
206-44-0	Fluoranthene	370		U
129-00-0	Pyrene	370		U
85-68-7	Butylbenzylphthalate	370		U
56-55-3	Benzo[a]anthracene	370		U
218-01-9	Chrysene	370		U
117-81-7	bis(2-Ethylhexyl)phthalate	650		
117-84-0	Di-n-octylphthalate	370		U
205-99-2	Benzo[b]fluoranthene	370		U
207-08-9	Benzo[k]fluoranthene	370		U
50-32-8	Benzo[a]pyrene	370		U
193-39-5	Indeno[1,2,3-cd]pyrene	370		U
53-70-3	Dibenz[a,h]anthracene	370		U
191-24-2	Benzo[g,h,i]perylene	370		U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-03A-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164013
 Sample wt/vol: 30.01 (g/ml) G Lab File ID: S4S8N098.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.5 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine	370		U
111-44-4	bis(2-Chloroethyl)ether	370		U
108-95-2	Phenol	370		U
95-57-8	2-Chlorophenol	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
95-50-1	1,2-Dichlorobenzene	370		U
100-51-6	Benzyl alcohol	370		U
108-60-1	bis(2-chloroisopropyl)ether	370		U
95-48-7	2-Methylphenol	370		U
67-72-1	Hexachloroethane	370		U
621-64-7	N-Nitroso-di-n-propylamine	370		U
106-44-5	4-Methylphenol	370		U
98-95-3	Nitrobenzene	370		U
78-59-1	Isophorone	370		U
88-75-5	2-Nitrophenol	370		U
105-67-9	2,4-Dimethylphenol	370		U
111-91-1	bis(2-Chloroethoxy)methane	370		U
120-83-2	2,4-Dichlorophenol	370		U
120-82-1	1,2,4-Trichlorobenzene	370		U
91-20-3	Naphthalene	370		U
106-47-8	4-Chloroaniline	370		U
87-68-3	Hexachlorobutadiene	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-57-6	2-Methylnaphthalene	370		U
77-47-4	Hexachlorocyclopentadiene	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
91-58-7	2-Chloronaphthalene	370		U
88-74-4	2-Nitroaniline	370		U
208-96-8	Acenaphthylene	370		U
131-11-3	Dimethylphthalate	370		U
606-20-2	2,6-Dinitrotoluene	370		U
83-32-9	Acenaphthene	370		U
99-09-2	3-Nitroaniline	370		U
51-28-5	2,4-Dinitrophenol	370		U
132-64-9	Dibenzofuran	370		U

1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-03A-1830

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164013
 Sample wt/vol: 30.01 (g/ml) G Lab File ID: S4S8N098.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.5 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene	370		U
100-02-7	4-Nitrophenol	370		U
86-73-7	Fluorene	370		U
7005-72-3	4-Chlorophenyl-phenylether	370		U
84-66-2	Diethylphthalate	370		U
100-01-6	4-Nitroaniline	370		U
534-52-1	4,6-Dinitro-2-methylphenol	370		U
86-30-6	n-Nitrosodiphenylamine	370		U
101-55-3	4-Bromophenyl-phenylether	370		U
118-74-1	Hexachlorobenzene	370		U
87-86-5	Pentachlorophenol	370		U
85-01-8	Phenanthrene	370		U
120-12-7	Anthracene	370		U
84-74-2	Di-n-butylphthalate	370		U
206-44-0	Fluoranthene	370		U
129-00-0	Pyrene	370		U
85-68-7	Butylbenzylphthalate	370		U
56-55-3	Benzo[a]anthracene	370		U
218-01-9	Chrysene	370		U
117-81-7	bis(2-Ethylhexyl)phthalate	630		
117-84-0	Di-n-octylphthalate	370		U
205-99-2	Benzo[b]fluoranthene	370		U
207-08-9	Benzo[k]fluoranthene	370		U
50-32-8	Benzo[a]pyrene	370		U
193-39-5	Indeno[1,2,3-cd]pyrene	370		U
53-70-3	Dibenz[a,h]anthracene	370		U
191-24-2	Benzo[g,h,i]perylene	370		U

QUALITY CONTROL REPORT

Contains:

1. Data Analysis Sheets (Form 1's) for method blanks, spiked blanks, and/or spiked samples.
2. Surrogate Recovery Report(s) (Form 2)
3. Matrix Spike/Matrix Spike Duplicate Recovery Report(s) (Form 3) and Recovery Report(s) for spiked blanks
4. Recovery Report(s) for Laboratory Control spikes
5. Blank Report(s) (Form 4)
6. Tune Check Report(s) (Form 5)
7. Initial Calibration Report(s) (Form 6)
8. Continuing Calibration Report(s) (Form 7)
9. Internal Standard Response and Retention Time Report(s) (Form 8)

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

BLANK1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: BLANK1120
 Sample wt/vol: 30 (g/ml) G Lab File ID: B4S8N092.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine		330	U
111-44-4	bis(2-Chloroethyl)ether		330	U
108-95-2	Phenol		330	U
95-57-8	2-Chlorophenol		330	U
541-73-1	1,3-Dichlorobenzene		330	U
106-46-7	1,4-Dichlorobenzene		330	U
95-50-1	1,2-Dichlorobenzene		330	U
100-51-6	Benzyl alcohol		330	U
108-60-1	bis(2-chloroisopropyl)ether		330	U
95-48-7	2-Methylphenol		330	U
67-72-1	Hexachloroethane		330	U
621-64-7	N-Nitroso-di-n-propylamine		330	U
106-44-5	4-Methylphenol		330	U
98-95-3	Nitrobenzene		330	U
78-59-1	Isophorone		330	U
88-75-5	2-Nitrophenol		330	U
105-67-9	2,4-Dimethylphenol		330	U
111-91-1	bis(2-Chloroethoxy)methane		330	U
120-83-2	2,4-Dichlorophenol		330	U
120-82-1	1,2,4-Trichlorobenzene		330	U
91-20-3	Naphthalene		330	U
106-47-8	4-Chloroaniline		330	U
87-68-3	Hexachlorobutadiene		330	U
59-50-7	4-Chloro-3-methylphenol		330	U
91-57-6	2-Methylnaphthalene		330	U
77-47-4	Hexachlorocyclopentadiene		330	U
88-06-2	2,4,6-Trichlorophenol		330	U
95-95-4	2,4,5-Trichlorophenol		330	U
91-58-7	2-Chloronaphthalene		330	U
88-74-4	2-Nitroaniline		330	U
208-96-8	Acenaphthylene		330	U
131-11-3	Dimethylphthalate		330	U
606-20-2	2,6-Dinitrotoluene		330	U
83-32-9	Acenaphthene		330	U
99-09-2	3-Nitroaniline		330	U
51-28-5	2,4-Dinitrophenol		330	U
132-64-9	Dibenzofuran		330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

BLANK1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: BLANK1120
 Sample wt/vol: 30 (g/ml) G Lab File ID: B4S8N092.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene		330	U
100-02-7	4-Nitrophenol		330	U
86-73-7	Fluorene		330	U
7005-72-3	4-Chlorophenyl-phenylether		330	U
84-66-2	Diethylphthalate		330	U
100-01-6	4-Nitroaniline		330	U
534-52-1	4,6-Dinitro-2-methylphenol		330	U
86-30-6	n-Nitrosodiphenylamine		330	U
101-55-3	4-Bromophenyl-phenylether		330	U
118-74-1	Hexachlorobenzene		330	U
87-86-5	Pentachlorophenol		330	U
85-01-8	Phenanthrene		330	U
120-12-7	Anthracene		330	U
84-74-2	Di-n-butylphthalate		330	U
206-44-0	Fluoranthene		330	U
129-00-0	Pyrene		330	U
85-68-7	Butylbenzylphthalate		330	U
56-55-3	Benzo[a]anthracene		330	U
218-01-9	Chrysene		330	U
117-81-7	bis(2-Ethylhexyl)phthalate		330	U
117-84-0	Di-n-octylphthalate		330	U
205-99-2	Benzo[b]fluoranthene		330	U
207-08-9	Benzo[k]fluoranthene		330	U
50-32-8	Benzo[a]pyrene		330	U
193-39-5	Indeno[1,2,3-cd]pyrene		330	U
53-70-3	Dibenz[a,h]anthracene		330	U
191-24-2	Benzo[g,h,i]perylene		330	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCS1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: LCS1120
 Sample wt/vol: 30 (g/ml) G Lab File ID: L4S8N093.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine		3800	
111-44-4	bis(2-Chloroethyl)ether		3300	
108-95-2	Phenol		3000	
95-57-8	2-Chlorophenol		2700	
541-73-1	1,3-Dichlorobenzene		2900	
106-46-7	1,4-Dichlorobenzene		2900	
95-50-1	1,2-Dichlorobenzene		2900	
100-51-6	Benzyl alcohol		2500	
108-60-1	bis(2-chloroisopropyl)ether		3000	
95-48-7	2-Methylphenol		3200	
67-72-1	Hexachloroethane		3200	
621-64-7	N-Nitroso-di-n-propylamine		3400	
106-44-5	4-Methylphenol		3000	
98-95-3	Nitrobenzene		3200	
78-59-1	Isophorone		3000	
88-75-5	2-Nitrophenol		3000	
105-67-9	2,4-Dimethylphenol		2500	
111-91-1	bis(2-Chloroethoxy)methane		3200	
120-83-2	2,4-Dichlorophenol		3000	
120-82-1	1,2,4-Trichlorobenzene		2900	
91-20-3	Naphthalene		2900	
106-47-8	4-Chloroaniline		1500	
87-68-3	Hexachlorobutadiene		2700	
59-50-7	4-Chloro-3-methylphenol		3200	
91-57-6	2-Methylnaphthalene		2900	
77-47-4	Hexachlorocyclopentadiene		2600	
88-06-2	2,4,6-Trichlorophenol		2600	
95-95-4	2,4,5-Trichlorophenol		2900	
91-58-7	2-Chloronaphthalene		3100	
88-74-4	2-Nitroaniline		3200	
208-96-8	Acenaphthylene		3100	
131-11-3	Dimethylphthalate		3100	
606-20-2	2,6-Dinitrotoluene		3200	
83-32-9	Acenaphthene		3000	
99-09-2	3-Nitroaniline		2000	
51-28-5	2,4-Dinitrophenol		1400	
132-64-9	Dibenzofuran		2900	

1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCS1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: LCS1120
 Sample wt/vol: 30 (g/ml) G Lab File ID: L4S8N093.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene		3200	
100-02-7	4-Nitrophenol		2800	
86-73-7	Fluorene		3000	
7005-72-3	4-Chlorophenyl-phenylether		2800	
84-66-2	Diethylphthalate		3100	
100-01-6	4-Nitroaniline		2500	
534-52-1	4,6-Dinitro-2-methylphenol		2800	
86-30-6	n-Nitrosodiphenylamine		3300	
101-55-3	4-Bromophenyl-phenylether		3100	
118-74-1	Hexachlorobenzene		2900	
87-86-5	Pentachlorophenol		2400	
85-01-8	Phenanthrene		3100	
120-12-7	Anthracene		3200	
84-74-2	Di-n-butylphthalate		3200	
206-44-0	Fluoranthene		2900	
129-00-0	Pyrene		3800	
85-68-7	Butylbenzylphthalate		3500	
56-55-3	Benzo[a]anthracene		2900	
218-01-9	Chrysene		3200	
117-81-7	bis(2-Ethylhexyl)phthalate		3900	
117-84-0	Di-n-octylphthalate		3700	
205-99-2	Benzo[b]fluoranthene		3100	
207-08-9	Benzo[k]fluoranthene		3600	
50-32-8	Benzo[a]pyrene		3400	
193-39-5	Indeno[1,2,3-cd]pyrene		3500	
53-70-3	Dibenz[a,h]anthracene		3700	
191-24-2	Benzo[g,h,i]perylene		3600	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCSD1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: LCSD1120
 Sample wt/vol: 30 (g/ml) G Lab File ID: L4S8N094.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine		4000	
111-44-4	bis(2-Chloroethyl)ether		3300	
108-95-2	Phenol		3000	
95-57-8	2-Chlorophenol		2800	
541-73-1	1,3-Dichlorobenzene		3100	
106-46-7	1,4-Dichlorobenzene		3100	
95-50-1	1,2-Dichlorobenzene		3100	
100-51-6	Benzyl alcohol		2500	
108-60-1	bis(2-chloroisopropyl)ether		3100	
95-48-7	2-Methylphenol		3300	
67-72-1	Hexachloroethane		3400	
621-64-7	N-Nitroso-di-n-propylamine		3500	
106-44-5	4-Methylphenol		3000	
98-95-3	Nitrobenzene		3200	
78-59-1	Isophorone		3000	
88-75-5	2-Nitrophenol		3100	
105-67-9	2,4-Dimethylphenol		2500	
111-91-1	bis(2-Chloroethoxy)methane		3200	
120-83-2	2,4-Dichlorophenol		3000	
120-82-1	1,2,4-Trichlorobenzene		3000	
91-20-3	Naphthalene		2900	
106-47-8	4-Chloroaniline		1000	
87-68-3	Hexachlorobutadiene		2700	
59-50-7	4-Chloro-3-methylphenol		3200	
91-57-6	2-Methylnaphthalene		2900	
77-47-4	Hexachlorocyclopentadiene		2800	
88-06-2	2,4,6-Trichlorophenol		2600	
95-95-4	2,4,5-Trichlorophenol		3000	
91-58-7	2-Chloronaphthalene		3000	
88-74-4	2-Nitroaniline		3200	
208-96-8	Acenaphthylene		3000	
131-11-3	Dimethylphthalate		3000	
606-20-2	2,6-Dinitrotoluene		3200	
83-32-9	Acenaphthene		2900	
99-09-2	3-Nitroaniline		1700	
51-28-5	2,4-Dinitrophenol		1400	
132-64-9	Dibenzofuran		2900	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCSD1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: LCSD1120
 Sample wt/vol: 30 (g/ml) G Lab File ID: L4S8N094.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene		3100	
100-02-7	4-Nitrophenol		2900	
86-73-7	Fluorene		2900	
7005-72-3	4-Chlorophenyl-phenylether		2800	
84-66-2	Diethylphthalate		2900	
100-01-6	4-Nitroaniline		2600	
534-52-1	4,6-Dinitro-2-methylphenol		2700	
86-30-6	n-Nitrosodiphenylamine		3200	
101-55-3	4-Bromophenyl-phenylether		3000	
118-74-1	Hexachlorobenzene		2800	
87-86-5	Pentachlorophenol		2700	
85-01-8	Phenanthrene		3000	
120-12-7	Anthracene		3100	
84-74-2	Di-n-butylphthalate		3100	
206-44-0	Fluoranthene		2900	
129-00-0	Pyrene		3400	
85-68-7	Butylbenzylphthalate		3300	
56-55-3	Benzo[a]anthracene		2800	
218-01-9	Chrysene		3200	
117-81-7	bis(2-Ethylhexyl)phthalate		3600	
117-84-0	Di-n-octylphthalate		3600	
205-99-2	Benzo[b]fluoranthene		3200	
207-08-9	Benzo[k]fluoranthene		3500	
50-32-8	Benzo[a]pyrene		3400	
193-39-5	Indeno[1,2,3-cd]pyrene		3100	
53-70-3	Dibenz[a,h]anthracene		3300	
191-24-2	Benzo[g,h,i]perylene		3200	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-03A-1830MS

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164013
 Sample wt/vol: 30 (g/ml) G Lab File ID: M4S8N099.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.5 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine		4000	
111-44-4	bis(2-Chloroethyl)ether		3600	
108-95-2	Phenol		3200	
95-57-8	2-Chlorophenol		2900	
541-73-1	1,3-Dichlorobenzene		3200	
106-46-7	1,4-Dichlorobenzene		3200	
95-50-1	1,2-Dichlorobenzene		3300	
100-51-6	Benzyl alcohol		570	
108-60-1	bis(2-chloroisopropyl)ether		3400	
95-48-7	2-Methylphenol		3500	
67-72-1	Hexachloroethane		3500	
621-64-7	N-Nitroso-di-n-propylamine		3600	
106-44-5	4-Methylphenol		3400	
98-95-3	Nitrobenzene		3500	
78-59-1	Isophorone		3200	
88-75-5	2-Nitrophenol		3200	
105-67-9	2,4-Dimethylphenol		3800	
111-91-1	bis(2-Chloroethoxy)methane		3400	
120-83-2	2,4-Dichlorophenol		3300	
120-82-1	1,2,4-Trichlorobenzene		3200	
91-20-3	Naphthalene		3100	
106-47-8	4-Chloroaniline		480	
87-68-3	Hexachlorobutadiene		3000	
59-50-7	4-Chloro-3-methylphenol		3700	
91-57-6	2-Methylnaphthalene		3100	
77-47-4	Hexachlorocyclopentadiene		4100	
88-06-2	2,4,6-Trichlorophenol		2400	
95-95-4	2,4,5-Trichlorophenol		4100	
91-58-7	2-Chloronaphthalene		3300	
88-74-4	2-Nitroaniline		3400	
208-96-8	Acenaphthylene		3300	
131-11-3	Dimethylphthalate		3300	
606-20-2	2,6-Dinitrotoluene		3400	
83-32-9	Acenaphthene		3300	
99-09-2	3-Nitroaniline		1600	
51-28-5	2,4-Dinitrophenol		2000	
132-64-9	Dibenzofuran		3200	

1C

Sample Number:

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

12-SB-03A-1830MS

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164013
 Sample wt/vol: 30 (g/ml) G Lab File ID: M4S8N099.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.5 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene		3400	
100-02-7	4-Nitrophenol		1500	
86-73-7	Fluorene		3300	
7005-72-3	4-Chlorophenyl-phenylether		3000	
84-66-2	Diethylphthalate		3200	
100-01-6	4-Nitroaniline		2400	
534-52-1	4,6-Dinitro-2-methylphenol		2800	
86-30-6	n-Nitrosodiphenylamine		3500	
101-55-3	4-Bromophenyl-phenylether		3300	
118-74-1	Hexachlorobenzene		3100	
87-86-5	Pentachlorophenol		2600	
85-01-8	Phenanthrene		3300	
120-12-7	Anthracene		3400	
84-74-2	Di-n-butylphthalate		3500	
206-44-0	Fluoranthene		3200	
129-00-0	Pyrene		3700	
85-68-7	Butylbenzylphthalate		3600	
56-55-3	Benzo[a]anthracene		3100	
218-01-9	Chrysene		3500	
117-81-7	bis(2-Ethylhexyl)phthalate		4400	
117-84-0	Di-n-octylphthalate		3800	
205-99-2	Benzo[b]fluoranthene		3300	
207-08-9	Benzo[k]fluoranthene		3700	
50-32-8	Benzo[a]pyrene		3600	
193-39-5	Indeno[1,2,3-cd]pyrene		3400	
53-70-3	Dibenz[a,h]anthracene		3600	
191-24-2	Benzo[g,h,i]perylene		3600	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-03A-1830MSD

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
 Matrix: (soil/water) SOIL Lab Sample ID: 23164013
 Sample wt/vol: 30 (g/ml) G Lab File ID: M4S8N100.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: 9.5 decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
62-75-9	N-Nitrosodimethylamine	4400		
111-44-4	bis(2-Chloroethyl)ether	3800		
108-95-2	Phenol	3400		
95-57-8	2-Chlorophenol	3100		
541-73-1	1,3-Dichlorobenzene	3300		
106-46-7	1,4-Dichlorobenzene	3300		
95-50-1	1,2-Dichlorobenzene	3400		
100-51-6	Benzyl alcohol	1100		
108-60-1	bis(2-chloroisopropyl)ether	3500		
95-48-7	2-Methylphenol	3800		
67-72-1	Hexachloroethane	3600		
621-64-7	N-Nitroso-di-n-propylamine	3900		
106-44-5	4-Methylphenol	3600		
98-95-3	Nitrobenzene	3700		
78-59-1	Isophorone	3400		
88-75-5	2-Nitrophenol	3500		
105-67-9	2,4-Dimethylphenol	4200		
111-91-1	bis(2-Chloroethoxy)methane	3600		
120-83-2	2,4-Dichlorophenol	3500		
120-82-1	1,2,4-Trichlorobenzene	3300		
91-20-3	Naphthalene	3300		
106-47-8	4-Chloroaniline	1300		
87-68-3	Hexachlorobutadiene	3100		
59-50-7	4-Chloro-3-methylphenol	3800		
91-57-6	2-Methylnaphthalene	3300		
77-47-4	Hexachlorocyclopentadiene	3900		
88-06-2	2,4,6-Trichlorophenol	2400		
95-95-4	2,4,5-Trichlorophenol	3800		
91-58-7	2-Chloronaphthalene	3600		
88-74-4	2-Nitroaniline	3700		
208-96-8	Acenaphthylene	3600		
131-11-3	Dimethylphthalate	3500		
606-20-2	2,6-Dinitrotoluene	3600		
83-32-9	Acenaphthene	3500		
99-09-2	3-Nitroaniline	2100		
51-28-5	2,4-Dinitrophenol	2400		
132-64-9	Dibenzofuran	3300		

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-SB-03A-1830MSD

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
Profile: 32204-0606 Site: Camp Pedrickto Code: E8270 Units: ug/kg
Matrix: (soil/water) SOIL Lab Sample ID: 23164013
Sample wt/vol: 30 (g/ml) G Lab File ID: M4S8N100.D
Level: (low/med) LOW Date Collected: 11/14/06
% Moisture: 9.5 decanted:(Y/N) N Date Extracted: 11/20/06
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/06
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
121-14-2	2,4-Dinitrotoluene		3600	
100-02-7	4-Nitrophenol		2500	
86-73-7	Fluorene		3500	
7005-72-3	4-Chlorophenyl-phenylether		3200	
84-66-2	Diethylphthalate		3500	
100-01-6	4-Nitroaniline		2700	

2D
 SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Level: (low/med) LOW

	S1	S2	S3	S4	S5	S6	TOT	
Sample Number:	(2FP) #	(PHL) #	(NBZ) #	(FBP) #	(TBP) #	(TPH) #	OUT	
01	BLANK1120	73	84	88	93	54	84	0
02	LCS1120	84	89	92	99	78	91	0
03	LCSD1120	87	92	96	98	81	84	0
04	12-SB-01-1830	83	89	91	94	76	95	0
05	12-SB-02-1830	79	88	91	94	78	90	0
06	12-SB-03-1830	84	89	89	93	75	100	0
07	12-SB-03A-1830	79	84	85	89	74	91	0
08	12-SB-03A-1830M	86	87	88	94	79	93	0
09	12-SB-03A-1830M	90	91	94	98	79	103	0

QC LIMITS

S1 (2FP) = 2-FLUOROPHENOL (38-108)
 S2 (PHL) = PHENOL-d5 (31-117)
 S3 (NBZ) = NITROBENZENE-d5 (24-133)
 S4 (FBP) = 2-FLUOROBIPHENYL (27-145)
 S5 (TBP) = 2,4,6-TRIBROMOPHENOL (24-145)
 S6 (TPH) = TERPHENYL-d14 (10-135)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
Matrix Spike - Sample Number: 12-SB-03A-1830 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
N-Nitrosodimethylamine	3700	0.0	4000	108	15 - 130
bis(2-Chloroethyl)ether	3700	0.0	3600	97	39 - 119
Phenol	3700	0.0	3200	86	29 - 131
2-Chlorophenol	3700	0.0	2900	78	49 - 102
1,3-Dichlorobenzene	3700	0.0	3200	86	1 - 111
1,4-Dichlorobenzene	3700	0.0	3200	86	1 - 113
1,2-Dichlorobenzene	3700	0.0	3300	89	1 - 116
Benzyl alcohol	3700	0.0	570	15	1 - 144
bis(2-chloroisopropyl)ether	3700	0.0	3400	92	5 - 133
2-Methylphenol	3700	0.0	3500	95	38 - 142
Hexachloroethane	3700	0.0	3500	95	1 - 121
N-Nitroso-di-n-propylamine	3700	0.0	3600	97	40 - 137
4-Methylphenol	3700	0.0	3400	92	39 - 126
Nitrobenzene	3700	0.0	3500	95	25 - 144
Isophorone	3700	0.0	3200	86	1 - 166
2-Nitrophenol	3700	0.0	3200	86	58 - 110
2,4-Dimethylphenol	3700	0.0	3800	103	1 - 160
bis(2-Chloroethoxy)methane	3700	0.0	3400	92	23 - 157
2,4-Dichlorophenol	3700	0.0	3300	89	59 - 120
1,2,4-Trichlorobenzene	3700	0.0	3200	86	18 - 121
Naphthalene	3700	0.0	3100	84	35 - 109
4-Chloroaniline	3700	0.0	480	13	1 - 70
Hexachlorobutadiene	3700	0.0	3000	81	1 - 142
4-Chloro-3-methylphenol	3700	0.0	3700	100	19 - 169
2-Methylnaphthalene	3700	0.0	3100	84	40 - 119
Hexachlorocyclopentadiene	3700	0.0	4100	111	1 - 127
2,4,6-Trichlorophenol	3700	0.0	2400	65	38 - 115
2,4,5-Trichlorophenol	3700	0.0	4100	111	49 - 164
2-Chloronaphthalene	3700	0.0	3300	89	54 - 117

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 32 outside limits

Spike Recovery: 0 out of 63 outside limits

COMMENTS:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Matrix Spike - Sample Number: 12-SB-03A-1830 Level: (low/med) LOW

2-Nitroaniline	3700	0.0	3400	92	52 - 129
Acenaphthylene	3700	0.0	3300	89	54 - 125
Dimethylphthalate	3700	0.0	3300	89	60 - 124
2,6-Dinitrotoluene	3700	0.0	3400	92	60 - 126
Acenaphthene	3700	0.0	3300	89	51 - 148
3-Nitroaniline	3700	0.0	1600	43	1 - 223
2,4-Dinitrophenol	3700	0.0	2000	54	1 - 120
Dibenzofuran	3700	0.0	3200	86	50 - 123
2,4-Dinitrotoluene	3700	0.0	3400	92	54 - 131
4-Nitrophenol	3700	0.0	1500	41	1 - 194
Fluorene	3700	0.0	3300	89	49 - 128
4-Chlorophenyl-phenylether	3700	0.0	3000	81	44 - 127
Diethylphthalate	3700	0.0	3200	86	49 - 137
4-Nitroaniline	3700	0.0	2400	65	1 - 168
4,6-Dinitro-2-methylphenol	3700	0.0	2800	76	9 - 130
n-Nitrosodiphenylamine	3700	0.0	3500	95	4 - 205
4-Bromophenyl-phenylether	3700	0.0	3300	89	53 - 133
Hexachlorobenzene	3700	0.0	3100	84	53 - 138
Pentachlorophenol	3700	0.0	2600	70	1 - 126
Phenanthrene	3700	0.0	3300	89	54 - 142
Anthracene	3700	0.0	3400	92	50 - 135
Di-n-butylphthalate	3700	0.0	3500	95	60 - 141
Fluoranthene	3700	0.0	3200	86	31 - 133
Pyrene	3700	0.0	3700	100	37 - 196
Butylbenzylphthalate	3700	0.0	3600	97	51 - 176
Benzo[a]anthracene	3700	0.0	3100	84	55 - 109
Chrysene	3700	0.0	3500	95	62 - 116
bis(2-Ethylhexyl)phthalate	3700	630	4400	100	49 - 175
Di-n-octylphthalate	3700	0.0	3800	103	1 - 265
Benzo[b]fluoranthene	3700	0.0	3300	89	58 - 130
Benzo[k]fluoranthene	3700	0.0	3700	100	60 - 130
Benzo[a]pyrene	3700	0.0	3600	97	63 - 118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 33 outside limits

Spike Recovery: 0 out of 65 outside limits

COMMENTS:

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
Matrix Spike - Sample Number: 12-SB-03A-1830 Level: (low/med) LOW

Indeno[1,2,3-cd]pyrene	3700	0.0	3400	92	34 - 125
Dibenz[a,h]anthracene	3700	0.0	3600	97	37 - 130
Benzo[g,h,i]perylene	3700	0.0	3600	97	27 - 136

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD		QC LIMITS	
			% REC #	% RPD #	RPD	REC.
N-Nitrosodimethylamine	3700	4400	119	10	40	15 - 130
bis(2-Chloroethyl)ether	3700	3800	103	6	40	39 - 119
Phenol	3700	3400	92	7	40	29 - 131
2-Chlorophenol	3700	3100	84	7	40	49 - 102
1,3-Dichlorobenzene	3700	3300	89	3	40	1 - 111
1,4-Dichlorobenzene	3700	3300	89	3	40	1 - 113
1,2-Dichlorobenzene	3700	3400	92	3	40	1 - 116
Benzyl alcohol	3700	1100	30	67 *	40	1 - 144
bis(2-chloroisopropyl)ether	3700	3500	95	3	40	5 - 133
2-Methylphenol	3700	3800	103	8	40	38 - 142
Hexachloroethane	3700	3600	97	2	40	1 - 121
N-Nitroso-di-n-propylamine	3700	3900	105	8	40	40 - 137
4-Methylphenol	3700	3600	97	5	40	39 - 126
Nitrobenzene	3700	3700	100	5	40	25 - 144
Isophorone	3700	3400	92	7	40	1 - 166
2-Nitrophenol	3700	3500	95	10	40	58 - 110
2,4-Dimethylphenol	3700	4200	114	10	40	1 - 160
bis(2-Chloroethoxy)methane	3700	3600	97	5	40	23 - 157
2,4-Dichlorophenol	3700	3500	95	7	40	59 - 120
1,2,4-Trichlorobenzene	3700	3300	89	3	40	18 - 121
Naphthalene	3700	3300	89	6	40	35 - 109
4-Chloroaniline	3700	1300	35	92 *	40	1 - 70
Hexachlorobutadiene	3700	3100	84	4	40	1 - 142
4-Chloro-3-methylphenol	3700	3800	103	3	40	19 - 169
2-Methylnaphthalene	3700	3300	89	6	40	40 - 119
Hexachlorocyclopentadiene	3700	3900	105	6	40	1 - 127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 3 outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Matrix Spike - Sample Number: 12-SB-03A-1830 Level: (low/med) LOW

2,4,6-Trichlorophenol	3700	2400	65	0	40	38 - 115
2,4,5-Trichlorophenol	3700	3800	103	7	40	49 - 164
2-Chloronaphthalene	3700	3600	97	9	40	54 - 117
2-Nitroaniline	3700	3700	100	8	40	52 - 129
Acenaphthylene	3700	3600	97	9	40	54 - 125
Dimethylphthalate	3700	3500	95	7	40	60 - 124
2,6-Dinitrotoluene	3700	3600	97	5	40	60 - 126
Acenaphthene	3700	3500	95	7	40	51 - 148
3-Nitroaniline	3700	2100	57	28	40	1 - 223
2,4-Dinitrophenol	3700	2400	65	18	40	1 - 120
Dibenzofuran	3700	3300	89	3	40	50 - 123
2,4-Dinitrotoluene	3700	3600	97	5	40	54 - 131
4-Nitrophenol	3700	2500	68	50 *	40	1 - 194
Fluorene	3700	3500	95	7	40	49 - 128
4-Chlorophenyl-phenylether	3700	3200	86	6	40	44 - 127
Diethylphthalate	3700	3500	95	10	40	49 - 137
4-Nitroaniline	3700	2700	73	12	40	1 - 168
4,6-Dinitro-2-methylphenol	3700	3200	86	12	40	9 - 130
n-Nitrosodiphenylamine	3700	3700	100	5	40	4 - 205
4-Bromophenyl-phenylether	3700	3500	95	7	40	53 - 133
Hexachlorobenzene	3700	3200	86	2	40	53 - 138
Pentachlorophenol	3700	2900	78	11	40	1 - 126
Phenanthrene	3700	3500	95	7	40	54 - 142
Anthracene	3700	3600	97	5	40	50 - 135
Di-n-butylphthalate	3700	3600	97	2	40	60 - 141
Fluoranthene	3700	3200	86	0	40	31 - 133
Pyrene	3700	4200	114	13	40	37 - 196
Butylbenzylphthalate	3700	4000	108	11	40	51 - 176
Benzo[a]anthracene	3700	3300	89	6	40	55 - 109
Chrysene	3700	3600	97	2	40	62 - 116
bis(2-Ethylhexyl)phthalate	3700	4700	111	7	40	49 - 175
Di-n-octylphthalate	3700	4200	114	10	40	1 - 265
Benzo[b]fluoranthene	3700	3400	92	3	40	58 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 0 outside limits

Spike Recovery: 0 out of 0 outside limits

COMMENTS:

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
Matrix Spike - Sample Number: 12-SB-03A-1830 Level: (low/med) LOW

Benzo[k]fluoranthene	3700	3700	100	0	40	60 - 130
Benzo[a]pyrene	3700	3800	103	6	40	63 - 118
Indeno[1,2,3-cd]pyrene	3700	3700	100	8	40	34 - 125
Dibenz[a,h]anthracene	3700	4000	108	11	40	37 - 130
Benzo[g,h,i]perylene	3700	3800	103	6	40	27 - 136

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 0 outside limits

COMMENTS:

8270C SOIL LABORATORY CONTROL SPIKE REPORT

Date Acquired: 11/27/2006 13:11 Data File Name: L4S8N093.D
 Sample Name: LCS1120 Analyst: 0244MO
 Misc Info: SOIL,LCS1120,C:11/20/06,X:11/20/06,I Instrument: ABN4
 Method: 8270CREV Data File Path: 3N4\DATA\11_27_06\

CAS No.	Compound Name	Conc. (ug/L)	Percent Recovery (%)	Range		In Spec (Yes/No)
				Lower	Upper	
62-75-9	N-Nitrosodimethylamine	114	114	46	106	No
111-44-4	bis(2-Chloroethyl)ether	98	98	51	114	Yes
108-95-2	Phenol	89	89	52	103	Yes
95-57-8	2-Chlorophenol	82	82	53	103	Yes
541-73-1	1,3-Dichlorobenzene	88	88	40	111	Yes
106-46-7	1,4-Dichlorobenzene	88	88	43	110	Yes
95-50-1	1,2-Dichlorobenzene	88	88	44	108	Yes
100-51-6	Benzyl alcohol	75	75	23	119	Yes
108-60-1	bis(2-chloroisopropyl)ether	91	91	34	122	Yes
95-48-7	2-Methylphenol	97	97	56	118	Yes
67-72-1	Hexachloroethane	95	95	43	114	Yes
621-64-7	N-Nitroso-di-n-propylamine	102	102	55	120	Yes
106-44-5	4-Methylphenol	89	89	57	107	Yes
98-95-3	Nitrobenzene	95	95	53	113	Yes
78-5-	Isophorone	91	91	18	127	Yes
8-75-5	2-Nitrophenol	90	90	53	106	Yes
105-67-9	2,4-Dimethylphenol	74	74	37	115	Yes
111-91-1	bis(2-Chloroethoxy)methane	97	97	48	125	Yes
120-83-2	2,4-Dichlorophenol	89	89	63	106	Yes
120-82-1	1,2,4-Trichlorobenzene	87	87	58	104	Yes
91-20-3	Naphthalene	86	86	48	114	Yes
106-47-8	4-Chloroaniline	45	45	3	86	Yes
87-68-3	Hexachlorobutadiene	80	80	51	116	Yes
59-50-7	4-Chloro-3-methylphenol	95	95	59	120	Yes
91-57-6	2-Methylnaphthalene	87	87	53	111	Yes
77-47-4	Hexachlorocyclopentadiene	78	78	21	139	Yes
88-06-2	2,4,6-Trichlorophenol	79	79	62	99	Yes
95-95-4	2,4,5-Trichlorophenol	88	88	70	108	Yes
91-58-7	2-Chloronaphthalene	92	92	62	107	Yes
88-74-4	2-Nitroaniline	97	97	60	110	Yes
208-96-8	Acenaphthylene	94	94	55	124	Yes
131-11-3	Dimethylphthalate	92	92	64	109	Yes
606-20-2	2,6-Dinitrotoluene	96	96	62	121	Yes
83-32-9	Acenaphthene	90	90	63	129	Yes
99-09-2	3-Nitroaniline	60	60	1	130	Yes
51-28-5	2,4-Dinitrophenol	43	43	1	81	Yes
132-64-9	Dibenzofuran	88	88	52	120	Yes
121-14-2	2,4-Dinitrotoluene	95	95	57	128	Yes
100-02-7	4-Nitrophenol	85	85	5	130	Yes
86-73-7	Fluorene	91	91	59	115	Yes
7005-72-3	4-Chlorophenyl-phenylether	84	84	58	112	Yes
84-66-2	Diethylphthalate	93	93	61	118	Yes
100-01-6	4-Nitroaniline	76	76	15	150	Yes
534-52-1	4,6-Dinitro-2-methylphenol	83	83	4	117	Yes
86-30-6	n-Nitrosodiphenylamine	100	100	47	151	Yes
101-55-3	4-Bromophenyl-phenylether	92	92	64	109	Yes
117-74-1	Hexachlorobenzene	87	87	63	114	Yes
87-86-5	Pentachlorophenol	73	73	32	99	Yes
85-01-8	Phenanthrene	94	94	58	126	Yes
120-12-7	Anthracene	95	95	52	128	Yes
84-74-2	Di-n-butylphthalate	95	95	64	127	Yes
206-44-0	Fluoranthene	88	88	64	104	Yes
129-00-0	Pyrene	114	114	55	132	Yes
85-68-7	Butylbenzylphthalate	106	106	48	147	Yes
56-55-3	Benzo[a]anthracene	88	88	55	107	Yes
210-01-9	Chrysene	97	97	66	111	Yes
117-81-7	bis(2-Ethylhexyl)phthalate	117	117	48	142	Yes
117-84-0	Di-n-octylphthalate	110	110	41	150	Yes
205-99-2	Benzo[b]fluoranthene	92	92	58	124	Yes
207-08-9	Benzo[k]fluoranthene	107	107	56	123	Yes
50-32-8	Benzo[a]pyrene	103	103	65	114	Yes
193-39-5	Indeno[1,2,3-cd]pyrene	104	104	45	113	Yes
53-70-3	Dibenz[a,h]anthracene	110	110	49	115	Yes
191-24-2	Benzo[g,h,i]perylene	109	109	40	120	Yes

8270C SOIL LABORATORY CONTROL SPIKE REPORT

Date Acquired: 11/27/2006 13:44 Data File Name: L4S8N094.D
 Sample Name: LCSD1120 Analyst: 0244MO
 Misc Info: SOIL,LCSD1120,C:11/20/06,X:11/20/06 Instrument: ABN4
 Method: 8270CREV Data File Path: 3N4\DATA\11_27_06\

CAS No.	Compound Name	Conc. (ug/L)	Percent Recovery (%)	Range		In Spec (Yes/No)
				Lower	Upper	
62-75-9	N-Nitrosodimethylamine	121	121	46	106	No
111-44-4	bis(2-Chloroethyl)ether	100	100	51	114	Yes
108-95-2	Phenol	91	91	52	103	Yes
95-57-8	2-Chlorophenol	84	84	53	103	Yes
541-73-1	1,3-Dichlorobenzene	92	92	40	111	Yes
106-46-7	1,4-Dichlorobenzene	92	92	43	110	Yes
95-50-1	1,2-Dichlorobenzene	92	92	44	108	Yes
100-51-6	Benzyl alcohol	75	75	23	119	Yes
108-60-1	bis(2-chloroisopropyl)ether	94	94	34	122	Yes
95-48-7	2-Methylphenol	98	98	56	118	Yes
67-72-1	Hexachloroethane	101	101	43	114	Yes
621-64-7	N-Nitroso-di-n-propylamine	105	105	55	120	Yes
106-44-5	4-Methylphenol	90	90	57	107	Yes
98-95-3	Nitrobenzene	97	97	53	113	Yes
78-5-	Isophorone	91	91	18	127	Yes
8-75-5	2-Nitrophenol	94	94	53	106	Yes
105-67-9	2,4-Dimethylphenol	76	76	37	115	Yes
111-91-1	bis(2-Chloroethoxy)methane	96	96	48	125	Yes
120-83-2	2,4-Dichlorophenol	90	90	63	106	Yes
120-82-1	1,2,4-Trichlorobenzene	89	89	58	104	Yes
91-20-3	Naphthalene	86	86	48	114	Yes
106-47-8	4-Chloroaniline	31	31	3	86	Yes
87-68-3	Hexachlorobutadiene	82	82	51	116	Yes
59-50-7	4-Chloro-3-methylphenol	96	96	59	120	Yes
91-57-6	2-Methylnaphthalene	88	88	53	111	Yes
77-47-4	Hexachlorocyclopentadiene	83	83	21	139	Yes
88-06-2	2,4,6-Trichlorophenol	78	78	62	99	Yes
95-95-4	2,4,5-Trichlorophenol	91	91	70	108	Yes
91-58-7	2-Chloronaphthalene	91	91	62	107	Yes
88-74-4	2-Nitroaniline	95	95	60	110	Yes
208-96-8	Acenaphthylene	91	91	55	124	Yes
131-11-3	Dimethylphthalate	90	90	64	109	Yes
606-20-2	2,6-Dinitrotoluene	95	95	62	121	Yes
83-32-9	Acenaphthene	88	88	63	129	Yes
99-09-2	3-Nitroaniline	50	50	1	130	Yes
51-28-5	2,4-Dinitrophenol	42	42	1	81	Yes
132-64-9	Dibenzofuran	86	86	52	120	Yes
121-14-2	2,4-Dinitrotoluene	93	93	57	128	Yes
100-02-7	4-Nitrophenol	86	86	5	130	Yes
86-73-7	Fluorene	88	88	59	115	Yes
7005-72-3	4-Chlorophenyl-phenylether	83	83	58	112	Yes
84-66-2	Diethylphthalate	88	88	61	118	Yes
100-01-6	4-Nitroaniline	77	77	15	150	Yes
534-52-1	4,6-Dinitro-2-methylphenol	82	82	4	117	Yes
86-30-6	n-Nitrosodiphenylamine	97	97	47	151	Yes
101-55-3	4-Bromophenyl-phenylether	91	91	64	109	Yes
117-74-1	Hexachlorobenzene	85	85	63	114	Yes
87-86-5	Pentachlorophenol	80	80	32	99	Yes
85-01-8	Phenanthrene	91	91	58	126	Yes
120-12-7	Anthracene	93	93	52	128	Yes
84-74-2	Di-n-butylphthalate	92	92	64	127	Yes
206-44-0	Fluoranthene	86	86	64	104	Yes
129-00-0	Pyrene	102	102	55	132	Yes
85-68-7	Butylbenzylphthalate	98	98	48	147	Yes
56-55-3	Benzo[a]anthracene	85	85	55	107	Yes
210-01-9	Chrysene	96	96	66	111	Yes
117-81-7	bis(2-Ethylhexyl)phthalate	109	109	48	142	Yes
117-84-0	Di-n-octylphthalate	108	108	41	150	Yes
205-99-2	Benzo[b]fluoranthene	95	95	58	124	Yes
207-08-9	Benzo[k]fluoranthene	104	104	56	123	Yes
50-32-8	Benzo[a]pyrene	101	101	65	114	Yes
193-39-5	Indeno[1,2,3-cd]pyrene	92	92	45	113	Yes
53-70-3	Dibenz[a,h]anthracene	98	98	49	115	Yes
191-24-2	Benzo[g,h,i]perylene	96	96	40	120	Yes

4B
 SEMIVOLATILE METHOD BLANK SUMMARY

Sample Number:

BLANK1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Lab File ID: B4S8N092.D Lab Sample ID: BLANK1120
 Instrument ID: ABN4 Date Extracted: 11/20/06
 Matrix: (soil/water) SOIL Date Analyzed: 11/27/06
 Level: (low/med) LOW Time Analyzed: 12:26

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	LAB Sample Number:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS1120	LCS1120	L4S8N093.D	11/27/06
02	LCSD1120	LCSD1120	L4S8N094.D	11/27/06
03	12-SB-01-1830	23164010	S4S8N095.D	11/27/06
04	12-SB-02-1830	23164011	S4S8N096.D	11/27/06
05	12-SB-03-1830	23164012	S4S8N097.D	11/27/06
06	12-SB-03A-1830	23164013	S4S8N098.D	11/27/06
07	12-SB-03A-1830MS	23164013	M4S8N099.D	11/27/06
08	12-SB-03A-1830MSD	23164013	M4S8N100.D	11/27/06

COMMENTS:

5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Lab File ID: T4S8N001.D DFTPP Injection Date: 11/06/06
 Instrument ID: ABN4 DFTPP Injection Time: 10:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198 (10-80%)	56.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	64.4
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	40.0 - 60.0% of mass 198 (10-80%)	51.2
197	Less than 1.0% of mass 198 (<2%)	0.0
198	Base Peak, 100% relative abundance (50-100% of 442)	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198 (10-60%)	23.4
365	Greater than 1% but less than 100% of mass 198	3.1
441	Present, but less than mass 443	1.8
442	40.0 - 100.0% of mass 198 (50-200%)	83.4
443	17.0 - 23.0% of mass 442 (15-24%)	16.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442 Criteria () - 525.2 Criteria

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	Sample Number:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD160	160UG/ML CALSTD, E	C4S8N002.D	11/06/06	11:37
02	SSTD120	120UG/ML CALSTD, E	C4S8N003.D	11/06/06	12:10
03	SSTD80	80UG/ML CALSTD, EX	C4S8N004.D	11/06/06	12:44
04	SSTD50	50UG/ML CALSTD, EX	C4S8N005.D	11/06/06	13:17
05	SSTD20	20UG/ML CALSTD, EX	C4S8N006.D	11/06/06	13:50
06	SSTD10	10UG/ML CALSTD, EX	C4S8N007.D	11/06/06	14:23

5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Lab File ID: T4S8N090.D DFTPP Injection Date: 11/27/06
 Instrument ID: ABN4 DFTPP Injection Time: 10:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198 (10-80%)	50.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	61.7
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198 (10-80%)	50.6
197	Less than 1.0% of mass 198 (<2%)	0.0
198	Base Peak, 100% relative abundance (50-100% of 442)	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198 (10-60%)	23.3
365	Greater than 1% but less than 100% of mass 198	2.9
441	Present, but less than mass 443	6.1
442	40.0 - 100.0% of mass 198 (50-200%)	81.0
443	17.0 - 23.0% of mass 442 (15-24%)	16.3 (20.1)2

1-Value is % mass 69 2-Value is % mass 442 Criteria () - 525.2 Criteria

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB	LAB	DATE	TIME
Sample Number:	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
01	SSTD1127	50UG/ML CCCHK, EXP	K4S8N091.D	11/27/06 11:28
02	BLANK1120	BLANK1120	B4S8N092.D	11/27/06 12:26
03	LCS1120	LCS1120	L4S8N093.D	11/27/06 13:11
04	LCSD1120	LCSD1120	L4S8N094.D	11/27/06 13:44
05	12-SB-01-1830	23164010	S4S8N095.D	11/27/06 14:17
06	12-SB-02-1830	23164011	S4S8N096.D	11/27/06 14:51
07	12-SB-03-1830	23164012	S4S8N097.D	11/27/06 15:24
08	12-SB-03A-1830	23164013	S4S8N098.D	11/27/06 15:57
09	12-SB-03A-1830MS	23164013	M4S8N099.D	11/27/06 16:31
10	12-SB-03A-1830MSD	23164013	M4S8N100.D	11/27/06 17:04

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Wed Nov 22 15:24:09 2006
Response via : Initial Calibration

Calibration Files

10 =C4S8N007.D 20 =C4S8N006.D 50 =C4S8N005.D
80 =C4S8N004.D 120 =C4S8N003.D 160 =C4S8N002.D

Compound	10	20	50	80	120	160	Avg	%RSD

1) I 1,4-DICHLOROBENZENE-d	-----ISTD-----							
2) MT N-Nitrosodimeth	0.877	0.988	0.970	0.977	0.990	0.976	0.963	4.44
3) S 2-FLUOROPHENOL	1.313	1.492	1.491	1.485	1.498	1.480	1.460	4.95
4) MT bis(2-Chloroeth	0.446	0.480	0.479	0.456	0.440	0.422	0.454	5.00
5) S PHENOL-d5	1.593	1.811	1.771	1.707	1.651	1.604	1.689	5.27
6) CMT Phenol	1.662	1.922	1.846	1.749	1.682	1.632	1.749	6.52
7) MT 2-Chlorophenol	1.374	1.561	1.526	1.519	1.500	1.466	1.491	4.38
8) MT 1,3-Dichloroben	1.501	1.668	1.648	1.598	1.585	1.549	1.592	3.89
9) CMT 1,4-Dichloroben	1.491	1.692	1.651	1.592	1.559	1.524	1.585	4.82
10) MT 1,2-Dichloroben	1.398	1.554	1.493	1.364	1.279	1.225	1.386	9.00
11) MT Benzyl alcohol	0.809	0.969	0.954	0.933	0.939	0.921	0.921	6.21
12) MT bis(2-chloroiso	2.615	2.992	2.947	2.807	2.660	2.545	2.761	6.64
13) MT 2-Methylphenol	1.047	1.222	1.145	1.008	0.926	0.867	1.036	12.80
14) MT Hexachloroethan	0.554	0.641	0.628	0.611	0.600	0.583	0.603	5.21
15) PMT N-Nitroso-di-n-	0.904	1.049	1.029	0.985	0.963	0.932	0.977	5.69
16) MT 4-Methylphenol	1.180	1.351	1.328	1.304	1.297	1.265	1.287	4.68
17) I NAPHTHALENE-d8	-----ISTD-----							
18) S NITROBENZENE-d5	0.399	0.464	0.443	0.426	0.410	0.398	0.423	6.18
19) MT Nitrobenzene	0.386	0.444	0.423	0.397	0.372	0.357	0.396	8.15
20) MT Isophorone	0.677	0.769	0.739	0.748	0.749	0.730	0.735	4.27
21) MCT 2-Nitrophenol	0.195	0.241	0.230	0.206	0.185	0.178	0.206	12.05
22) MT 2,4-Dimethylphe	0.305	0.345	0.315	0.277	0.252	0.238	0.289	14.07
23) MT bis(2-Chloroeth	0.449	0.505	0.474	0.413	0.378	0.359	0.430	13.17
24) MCT 2,4-Dichlorophe	0.276	0.324	0.313	0.297	0.286	0.277	0.296	6.60
25) MT 1,2,4-Trichloro	0.288	0.319	0.302	0.284	0.268	0.256	0.286	7.95
26) MT Naphthalene	1.048	1.173	1.104	0.979	0.882	0.834	1.003	12.98
27) MT 4-Chloroaniline	0.406	0.462	0.459	0.435	0.390	0.385	0.423	8.04
28) CMT Hexachlorobutad	0.158	0.179	0.171	0.159	0.151	0.145	0.161	7.91
29) CMT 4-Chloro-3-meth	0.293	0.335	0.323	0.307	0.292	0.279	0.305	6.90
30) MT 2-Methylnaphtha	0.528	0.601	0.558	0.497	0.453	0.429	0.511	12.63
31) I ACENAPHTHENE-d10	-----ISTD-----							
32) PMT Hexachlorocyclo	0.112	0.188	0.196	0.214	0.220	0.208	0.190	21.01
33) CMT 2,4,6-Trichloro	0.378	0.449	0.430	0.415	0.393	0.374	0.407	7.35
34) MT 2,4,5-Trichloro	0.370	0.456	0.441	0.425	0.407	0.379	0.413	8.26
35) S 2-FLUOROBIPHENY	1.340	1.487	1.388	1.277	1.169	1.111	1.295	10.80
36) MT 2-Chloronaphtha	1.208	1.346	1.279	1.186	1.090	1.021	1.188	10.03
37) MT 2-Nitroaniline	0.379	0.486	0.482	0.475	0.466	0.447	0.456	8.80
38) MT Acenaphthylene	1.952	2.163	2.035	1.879	1.726	1.619	1.896	10.55
39) MT Dimethylphthala	1.503	1.686	1.565	1.523	1.470	1.398	1.524	6.36
40) MT 2,6-Dinitrotolu	0.331	0.405	0.392	0.394	0.383	0.362	0.378	7.14
41) CMT Acenaphthene	1.187	1.320	1.206	1.061	0.964	0.903	1.107	14.32
42) TM 3-Nitroaniline	0.327	0.413	0.405	0.421	0.420	0.399	0.397	9.00
43) PMT 2,4-Dinitrophen	0.045	0.132	0.142	0.171	0.183	0.180	0.142	36.58
44) MT Dibenzofuran	1.632	1.824	1.718	1.592	1.451	1.361	1.596	10.66
45) MT 2,4-Dinitrotolu	0.379	0.511	0.488	0.500	0.496	0.475	0.475	10.21
46) PMT 4-Nitrophenol	0.109	0.173	0.176	0.196	0.205	0.203	0.177	20.41
47) MT Fluorene	1.236	1.380	1.260	1.138	1.071	1.016	1.184	11.33
48) MT 4-Chlorophenyl-	0.573	0.652	0.602	0.554	0.501	0.466	0.558	12.07
49) MT Diethylphthalat	1.553	1.751	1.667	1.553	1.441	1.360	1.554	9.19
50) MT 4-Nitroaniline	0.256	0.348	0.335	0.347	0.352	0.336	0.329	11.04
51) I PHENANTHRENE-d10	-----ISTD-----							

(#) = Out of Range

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Wed Nov 22 15:24:09 2006
Response via : Initial Calibration

Calibration Files

10 =C4S8N007.D 20 =C4S8N006.D 50 =C4S8N005.D
80 =C4S8N004.D 120 =C4S8N003.D 160 =C4S8N002.D

Compound	10	20	50	80	120	160	Avg	%RSD
52) MT 4,6-Dinitro-2-m	0.070	0.150	0.160	0.179	0.177	0.169	0.151	27.20
53) CMT n-Nitrosodiphen	0.544	0.613	0.584	0.562	0.520	0.494	0.553	7.80
54) S 2,4,6-TRIBROMOP	0.171	0.214	0.210	0.211	0.200	0.188	0.199	8.32
55) MT 4-Bromophenyl-p	0.256	0.283	0.269	0.254	0.233	0.222	0.253	8.90
56) MT Hexachlorobenze	0.344	0.369	0.348	0.330	0.304	0.287	0.330	9.15
57) CM Pentachlorophen	0.145	0.224	0.221	0.227	0.214	0.206	0.206	14.92
58) MT Phenanthrene	1.203	1.301	1.217	1.096	1.016	0.964	1.133	11.44
59) MT Anthracene	1.169	1.289	1.231	1.112	1.033	0.988	1.137	10.15
60) MT Di-n-butylphtha	1.886	2.066	1.905	1.662	1.483	1.407	1.735	14.99
61) CMT Fluoranthene	1.080	1.249	1.186	1.082	0.984	0.952	1.089	10.47
62) I CHRYSENE-d12	-----ISTD-----							
63) M Pyrene	1.988	1.946	1.730	1.506	1.404	1.430	1.667	15.55
64) S TERPHENYL-d14	1.366	1.391	1.286	1.127	1.024	1.035	1.205	13.63
65) MT Butylbenzylphth	1.234	1.320	1.202	1.071	0.979	0.982	1.131	12.53
66) MT Benzo[a]anthrac	1.295	1.490	1.429	1.409	1.343	1.312	1.380	5.48
67) MT Chrysene	1.089	1.238	1.192	1.138	1.111	1.063	1.139	5.77
68) MT bis(2-Ethylhexy	1.764	1.834	1.639	1.419	1.283	1.279	1.536	15.80
69) I PERYLENE-d12	-----ISTD-----							
70) CMT Di-n-octylphtha	3.286	3.645	3.637	3.299	3.093	3.475	3.406	6.42
71) MT Benzo[b]fluoran	1.452	1.631	1.537	1.638	1.707	1.676	1.607	5.92
72) MT Benzo[k]fluoran	1.196	1.412	1.374	1.396	1.324	1.362	1.344	5.83
73) CMT Benzo[a]pyrene	1.044	1.238	1.228	1.235	1.253	1.219	1.203	6.54
74) MT Indeno[1,2,3-cd	0.950	1.203	1.110	1.062	1.076	1.068	1.078	7.57
75) MT Dibenz[a,h]anth	0.748	0.948	0.881	0.859	0.879	0.874	0.865	7.51
76) MT Benzo[g,h,i]per	0.823	1.001	0.915	0.840	0.830	0.839	0.875	8.05

Evaluate Continuing Calibration Report

Analytical Report 319502

Page 36 of 44 Pages
 Data File: G:\ABN4\DATA\11_27_06\K4S8N091.D
 Acq On : 27 Nov 2006 11:28 am
 Sample : 50ug/mL CCCHK, EXP 9/07
 Misc : 50 CCCHK; nb824p48, LotB5120182, mo
 MS Integration Params: rteint.p

Vial: 2
 Operator: 0244MO
 Inst : ABN4
 Multiplr: 1.00

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
 Title : CLP BNA Calibration
 Last Update : Wed Nov 22 15:24:09 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-DICHLOROBENZENE-d4	1.000	1.000	0.0	106	0.00
2 MT	N-Nitrosodimethylamine	0.963	1.098	-14.0	120	-0.04
3 S	2-FLUOROPHENOL	1.460	1.471	-0.8	104	-0.01
4 MT	bis(2-Chloroethyl) ether	0.454	0.489	-7.7	108	-0.01
5 S	PHENOL-d5	1.689	1.705	-0.9	102	0.00
6 CMT	Phenol	1.749	1.817	-3.9	104	-0.01
7 MT	2-Chlorophenol	1.491	1.509	-1.2	105	0.00
8 MT	1,3-Dichlorobenzene	1.592	1.614	-1.4	104	-0.01
9 CMT	1,4-Dichlorobenzene	1.585	1.623	-2.4	104	0.00
10 MT	1,2-Dichlorobenzene	1.386	1.466	-5.8	104	0.00
11 MT	Benzyl alcohol	0.921	0.715	22.4#	79	-0.01
12 MT	bis(2-chloroisopropyl) ether	2.761	2.684	2.8	96	0.00
13 MT	2-Methylphenol	1.036	1.200	-15.8	111	0.00
14 MT	Hexachloroethane	0.603	0.671	-11.3	113	0.00
15 PMT	N-Nitroso-di-n-propylamine	0.977	0.980	-0.3	101	0.00
16 MT	4-Methylphenol	1.287	1.316	-2.3	105	0.00
17 I	NAPHTHALENE-d8	1.000	1.000	0.0	106	0.00
18 S	NITROBENZENE-d5	0.423	0.446	-5.4	107	0.00
19 MT	Nitrobenzene	0.396	0.425	-7.3	107	-0.01
20 MT	Isophorone	0.735	0.747	-1.6	107	-0.02
21 MCT	2-Nitrophenol	0.206	0.222	-7.8	103	-0.01
22 MT	2,4-Dimethylphenol	0.289	0.320	-10.7	108	0.00
23 MT	bis(2-Chloroethoxy)methane	0.430	0.477	-10.9	107	-0.01
24 MCT	2,4-Dichlorophenol	0.296	0.295	0.3	100	0.00
25 MT	1,2,4-Trichlorobenzene	0.286	0.294	-2.8	103	0.00
26 MT	Naphthalene	1.003	1.043	-4.0	100	-0.01
27 MT	4-Chloroaniline	0.423	0.409	3.3	95	0.00
28 CMT	Hexachlorobutadiene	0.161	0.157	2.5	97	0.00
29 CMT	4-Chloro-3-methylphenol	0.305	0.312	-2.3	103	0.00
30 MT	2-Methylnaphthalene	0.511	0.524	-2.5	100	0.00
31 I	ACENAPHTHENE-d10	1.000	1.000	0.0	103	0.00
32 PMT	Hexachlorocyclopentadiene	0.190	0.260	-36.8#	137	0.00
33 CMT	2,4,6-Trichlorophenol	0.407	0.368	9.6	88	0.00
34 MT	2,4,5-Trichlorophenol	0.413	0.397	3.9	93	0.00
35 S	2-FLUOROBIPHENYL	1.295	1.268	2.1	94	0.00
36 MT	2-Chloronaphthalene	1.188	1.243	-4.6	100	0.00
37 MT	2-Nitroaniline	0.456	0.464	-1.8	99	0.00
38 MT	Acenaphthylene	1.896	2.011	-6.1	102	0.00
39 MT	Dimethylphthalate	1.524	1.506	1.2	99	0.00
40 MT	2,6-Dinitrotoluene	0.378	0.391	-3.4	103	0.00
41 CMT	Acenaphthene	1.107	1.175	-6.1	101	0.00
42 TM	3-Nitroaniline	0.397	0.385	3.0	98	0.00
43 PMT	2,4-Dinitrophenol	0.142	0.180	-26.8#	132	0.00
44 MT	Dibenzofuran	1.596	1.612	-1.0	97	0.00
45 MT	2,4-Dinitrotoluene	0.475	0.481	-1.3	101	0.00
46 PMT	4-Nitrophenol	0.177	0.184	-4.0	108	0.00
47 MT	Fluorene	1.184	1.217	-2.8	100	0.00
48 MT	4-Chlorophenyl-phenylether	0.558	0.537	3.8	92	0.00
49 MT	Diethylphthalate	1.554	1.587	-2.1	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Analytical Report 319502

Page 17 of 44 Pages
 Data File : G:\ABN4\DATA\11_27_06\K4S8N091.D
 Acq On : 27 Nov 2006 11:28 am
 Sample : 50ug/mL CCCHK, EXP 9/07
 Misc : 50 CCCHK, nb824p48, LotB5120182, mo
 MS Integration Params: rteint.p

Vial: 2
 Operator: 0244MO
 Inst : ABN4
 Multiplr: 1.00

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
 Title : CLP BNA Calibration
 Last Update : Wed Nov 22 15:24:09 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
50 MT 4-Nitroaniline	0.329	0.298	9.4	92	0.00
51 I PHENANTHRENE-d10	1.000	1.000	0.0	97	0.00
52 MT 4,6-Dinitro-2-methylphenol	0.151	0.186	-23.2#	113	0.00
53 CMT n-Nitrosodiphenylamine	0.553	0.659	-19.2	110	0.00
54 S 2,4,6-TRIBROMOPHENOL	0.199	0.175	12.1	81	0.00
55 MT 4-Bromophenyl-phenylether	0.253	0.261	-3.2	94	0.00
56 MT Hexachlorobenzene	0.330	0.326	1.2	91	0.00
57 CM Pentachlorophenol	0.206	0.207	-0.5	91	0.00
58 MT Phenanthrene	1.133	1.208	-6.6	97	0.00
59 MT Anthracene	1.137	1.221	-7.4	97	0.00
60 MT Di-n-butylphthalate	1.735	1.930	-11.2	99	0.00
61 CMT Fluoranthene	1.089	1.138	-4.5	93	0.00
62 I CHRYSENE-d12	1.000	1.000	0.0	91	0.00
63 M Pyrene	1.667	1.774	-6.4	94	0.01
64 S TERPHENYL-d14	1.205	1.238	-2.7	88	0.00
65 MT Butylbenzylphthalate	1.131	1.278	-13.0	97	0.00
66 MT Benzo[a]anthracene	1.380	1.396	-1.2	89	0.00
67 MT Chrysene	1.139	1.135	0.4	87	0.00
68 MT bis(2-Ethylhexyl)phthalate	1.536	1.707	-11.1	95	0.00
69 I PERYLENE-d12	1.000	1.000	0.0	87	-0.01
70 CMT Di-n-octylphthalate	3.406	3.905	-14.7	93	0.00
71 MT Benzo[b]fluoranthene	1.607	1.524	5.2	86	0.00
72 MT Benzo[k]fluoranthene	1.344	1.517	-12.9	96	0.00
73 CMT Benzo[a]pyrene	1.203	1.259	-4.7	89	0.00
74 MT Indeno[1,2,3-cd]pyrene	1.078	1.185	-9.9	92	-0.01
75 MT Dibenzo[a,h]anthracene	0.865	0.966	-11.7	95	-0.01
76 MT Benzo[g,h,i]perylene	0.875	0.970	-10.9	92	-0.02

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Lab File ID (Standard): K4S8N091.D Date Analyzed: 11/27/06
 Instrument ID: ABN4 Time Analyzed: 11:28

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	126369	7.67	471794	9.65	212029	12.26
UPPER LIMIT	252738	7.17	943588	9.15	424058	11.76
LOWER LIMIT	63185	8.17	235897	10.15	106015	12.76

Sample Number:

01	BLANK1120	125496	7.67	455517	9.65	202067	12.26
02	LCS1120	143497	7.67	544985	9.66	244196	12.27
03	LCSD1120	144746	7.68	553718	9.66	252957	12.26
04	12-SB-01-1830	141742	7.68	511991	9.66	228673	12.26
05	12-SB-02-1830	118703	7.68	425834	9.65	192748	12.26
06	12-SB-03-1830	113483	7.68	414702	9.66	187161	12.26
07	12-SB-03A-1830	122727	7.68	442426	9.65	201869	12.26
08	12-SB-03A-1830M	128511	7.68	486714	9.67	217764	12.27
09	12-SB-03A-1830M	129429	7.68	489940	9.67	217485	12.26

IS1 (DCB) = 1,4-DICHLOROBENZEN
 IS2 (NPT) = NAPHTHALENE-d8
 IS3 (ANT) = ACENAPHTHENE-d10
 IS4 (PHN) = PHENANTHRENE-d10
 IS5 (CRY) = CHRYSENE-d12
 IS6 (PRY) = PERYLENE-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8C
 SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32204-060 Site: Camp Pe Code: E8270 Units: ug/kg
 Lab File ID (Standard): K4S8N091.D Date Analyzed: 11/27/06
 Instrument ID: ABN4 Time Analyzed: 11:28

	IS4(PHN)		IS5(CRY)		IS6(PRY)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	288471	14.08	186433	17.14	129915	19.82	
UPPER LIMIT	576942	13.58	372866	16.64	259830	19.32	
LOWER LIMIT	144236	14.58	93217	17.64	64958	20.32	
EPA SAMPLE NO.							
01	BLANK1120	245289	14.08	133944	17.14	97859	19.82
02	LCS1120	330334	14.09	196453	17.15	126215	19.83
03	LCSD1120	340833	14.09	225189	17.16	148641	19.84
04	12-SB-01-183	290260	14.08	153406	17.13	104135	19.82
05	12-SB-02-183	242780	14.08	141655	17.14	107898	19.82
06	12-SB-03-183	237760	14.08	135502	17.13	100230	19.82
07	12-SB-03A-18	252149	14.07	148892	17.14	110674	19.82
08	12-SB-03A-18	296456	14.09	195506	17.15	132493	19.83
09	12-SB-03A-18	297963	14.09	180643	17.15	116720	19.83

IS1 (DCB) = 1,4-DICHLOROBENZEN
 IS2 (NPT) = NAPHTHALENE-d8
 IS3 (ANT) = ACENAPHTHENE-d10
 IS4 (PHN) = PHENANTHRENE-d10
 IS5 (CRY) = CHRYSENE-d12
 IS6 (PRY) = PERYLENE-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

TERMINOLOGY/ABBREVIATIONS/CODES

Terminology/Abbreviations:

A2LA or AALA - American Association for Laboratory Accreditation

AIHA - American Industrial Hygiene Association

ASD - Analytical Spectrometry Division

COLA - Commission on Office Laboratory Accreditation

EPA - U. S. Environmental Protection Agency

GC/MS - Gas Chromatography/Mass Spectrometry

ISO - International Organization for Standardization

NLLAP - National Laboratory Lead Accreditation Program

NVLAP - National Voluntary Laboratory Accreditation Program

Analysis Data Sheet Qualifier Codes:

B - Indicates analyte was found in the associated blank as well as in the sample

D - Indicates Sample was diluted.

E - Indicates reported value exceeds the upper limit of the quantitation curve.

J - Indicates reported value is an estimate.

U - Indicates compound was analyzed for but not detected.

Note: (1) n-Nitrosodiphenylamine is detected as Diphenylamine

(2) The correct name for bis(2-chloroisopropyl)ether is 2,2'-oxybis(1-chloropropane)



U.S. Army Center for Health Promotion and Preventive Medicine
Directorate of Laboratory Sciences
Aberdeen Proving Ground, MD 21010-5403
<http://chppm-www.apgea.army.mil/dls>

QA Review Required

Chain of Custody (COC)

This Chain of Custody is an Addendum to the Original COC submitted on 11-15-06 to SML. This is SML's internal Chain of Custody.

Profile: 32204 - 0606	Description: Camp Pedricktown~32204
Workorder #: 23164	Workorder ID: 0606320
Queue: GCMS	Customer: Program 38
Location: Camp Pedricktown	POC: Mr. David Jones
Jono: 77HR7E	Project Number: 8
Subjono: 0606	Notes: Mo will be addressed once the matrix is added to the acode. Aberkshire 11-16-06
Turn Code: W020	20 Work days from receipt

Total Samples: 4 **Total Containers: 4**

HSN	Container ID	Customer Sample ID	Sample Type	Matrix	Temp (C)	Date/Time Received	Date/Time Collected	Sample Due Date
	23164010	12-SB-01-1830	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:55 PM	14-Dec-2006
ACodes:								
GCMS1107 : Semi-Volatiles-Soil								
	23164011	12-SB-02-1830	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 03:10 PM	14-Dec-2006
ACodes:								
GCMS1107 : Semi-Volatiles-Soil								
	23164012	12-SB-03-1830	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 03:30 PM	14-Dec-2006
ACodes:								
GCMS1107 : Semi-Volatiles-Soil								
	23164013	12-SB-03A-1830	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 03:30 PM	14-Dec-2006
ACodes:								
GCMS1107 : Semi-Volatiles-Soil								

Standard

38-0606



Profile: 32204 - 0606	Description: Camp Pedricktown~32204
Workorder #: 23164	Workorder ID: 0606320
Queue: GCMS	Customer: Program 38

Total Samples: <u>4</u>	Total Containers: <u>4</u>
-------------------------	----------------------------

Samples Received By: <i>Alyson Berkshire</i>	Date Received: <i>11-16-06</i>
Document Reviewed By: Alyson Berkshire	Date Reviewed: <i>11-16-06</i>
Document Quality Review By: <i>Alyson Berkshire</i>	Date Reviewed: <i>11-16-06</i>
Samples Approved For Distribution: <i>Yes</i>	Date Approved: <i>11-16-06</i>
Initials: <i>AB</i>	
Initials: <i>AB</i>	

Chain of

Custody



Profile: 32204 - 0606
Workorder #: 23164
Queue: GCMS

Description: Camp Pedricktown~32204
Workorder ID: 0606320
Customer: Program 38

CHAIN OF CUSTODY RECORD

HSN	Customer Sample Id	Container Id	Mx	HSN	Customer Sample Id	Container Id	Mx
23164010	12-SB-01-1830	23164010-3	SO	23164011	12-SB-02-1830	23164011-3	SO
23164012	12-SB-03-1830	23164012-4	SO	23164013	12-SB-03A-1830	23164013-4	SO

Total Samples: 4 Total Containers: 4

Lab	Relinquished By	Date/Time	Received By	Date/Time	Comments
	<i>Alyson Berkshire</i>	11-16-06 1000	<i>AMB</i>	11-16-06 1005	To holding refrigerator in room #0202 Sample Numbering.
	From refrigerator				
	<i>Alyson Berkshire</i>	11-16-06 1005		11-16-06 1005	Returned to holding refrigerator in room #0202.
C-44	From fridge				
	<i>Wendy...</i>	11-17-06 1005			

Remarks:



Profile: 32204 - 0606	Description: Camp Pedricktown~32204
Workorder #: 23164	Workorder ID: 0606320
Queue: GCMS	Customer: Program 38

SAMPLE DISPOSAL RECORD				
HSN	Date Of Disposal	Number Of Containers	Signature	Remarks
23164010		1		
23164011		1		
23164012		1		
23164013		1		

Total Samples: 4 Total Containers: 4

Chain of Custody



5/06

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES (DLS)
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403
(410) 436-2208

FINAL ANALYTICAL REPORT

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32209 DLS WORK ORDER #: 23167
REPORT SERIAL NUMBER: 319518

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature: *Geraldine Miles* Date: 15 Dec 2006
Geraldine Miles, Chief, Analytical Spectrometry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

PROFILE NUMBER: 32209-0606
WORKORDER #: 23167
PROJECT SITE: Camp Pedricktown
CLIENT: Mr. David Jones
METHOD NUMBER: ASD SOP #SV72.9
REPORT DATE: 14 December 2006

Provided are the results for the SVOC analysis of one rinse water sample submitted from Camp Pedricktown. The sample was collected on 14 November 2006 and received into DLS on 15 November 2006. The sample was received at 8°C, which is not within the acceptable temperature range of 2-6°C.

Sample Preparation

The sample was extracted in accordance with EPA Method 3510 on 20 November 2006, meeting the 7-day extraction holding time.

Sample Analysis

The sample was analyzed on 22 November 2006 in accordance with EPA Method 8270C and ASD SOP #SV72.9, with all analytical holding times being met. No target compounds were detected in the sample as reported on the form 1's.

Quality Control

Two Laboratory Control Spikes (LCS/LCSDUP) were analyzed with most recoveries meeting the quality control limits as reported on the recovery forms. The reported recoveries of n-nitrosodimethylamine, isophorone, and di-n-octylphthalate were slightly high, but indicated no loss during extraction. No matrix spike (MS) or matrix spike duplicate (MSD) was extracted due to an insufficient amount of sample. Several compounds were manually integrated due to the limited capabilities of the data analysis software.

All surrogate recoveries were within quality control limits as reported on form 2. All reported internal standard area counts and retention times complied with method QC requirements as reported on form 8.

Extractionist: J Seeger for Sarah Boats Date: 15 Dec 2006
Project Analyst: Ma C Date: 15 Dec. 2006
Technical Reviewer: Jennifer Seeger Date: 15 Dec 2006
Administrative Reviewer: [Signature] Date: 15 Dec 2006

Report POC: Jennifer Seeger, GC/MS Team Leader (410) 436-8280

Listing of Report Contents:

Section	Beginning Page	Section	Beginning Page
Cover Letter	1	Quality Control Report	6
Case Narrative	2	Terminology/Abbreviations/Codes	25
Sample Summary	3	Chain of Custody Documents	26
Results of Analysis (Form 1's)	4	Total Number of Pages in report	28

SAMPLE SUMMARY

Field Number	Date Collected	LISMD Number	Data File Number	Matrix
12-ER2	11/14/2006	23167002	S4S8N084.D	Rinse water

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-ER2

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: 23167002
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: S4S8N084.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U	
111-44-4	bis(2-Chloroethyl)ether	10	U	
108-95-2	Phenol	10	U	
95-57-8	2-Chlorophenol	10	U	
541-73-1	1,3-Dichlorobenzene	10	U	
106-46-7	1,4-Dichlorobenzene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	
100-51-6	Benzyl alcohol	10	U	
108-60-1	bis(2-chloroisopropyl)ether	10	U	
95-48-7	2-Methylphenol	10	U	
67-72-1	Hexachloroethane	10	U	
621-64-7	N-Nitroso-di-n-propylamine	10	U	
106-44-5	4-Methylphenol	10	U	
98-95-3	Nitrobenzene	10	U	
78-59-1	Isophorone	10	U	
88-75-5	2-Nitrophenol	10	U	
105-67-9	2,4-Dimethylphenol	10	U	
111-91-1	bis(2-Chloroethoxy)methane	10	U	
120-83-2	2,4-Dichlorophenol	10	U	
120-82-1	1,2,4-Trichlorobenzene	10	U	
91-20-3	Naphthalene	10	U	
106-47-8	4-Chloroaniline	10	U	
87-68-3	Hexachlorobutadiene	10	U	
59-50-7	4-Chloro-3-methylphenol	10	U	
91-57-6	2-Methylnaphthalene	10	U	
77-47-4	Hexachlorocyclopentadiene	10	U	
88-06-2	2,4,6-Trichlorophenol	10	U	
95-95-4	2,4,5-Trichlorophenol	10	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	10	U	
208-96-8	Acenaphthylene	10	U	
131-11-3	Dimethylphthalate	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
83-32-9	Acenaphthene	10	U	
99-09-2	3-Nitroaniline	10	U	
51-28-5	2,4-Dinitrophenol	10	U	
132-64-9	Dibenzofuran	10	U	

1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

12-ER2

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: 23167002
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: S4S8N084.D
 Level: (low/med) LOW Date Collected: 11/14/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
121-14-2	2,4-Dinitrotoluene		10	U
100-02-7	4-Nitrophenol		10	U
86-73-7	Fluorene		10	U
7005-72-3	4-Chlorophenyl-phenylether		10	U
84-66-2	Diethylphthalate		10	U
100-01-6	4-Nitroaniline		10	U
534-52-1	4,6-Dinitro-2-methylphenol		10	U
86-30-6	n-Nitrosodiphenylamine		10	U
101-55-3	4-Bromophenyl-phenylether		10	U
118-74-1	Hexachlorobenzene		10	U
87-86-5	Pentachlorophenol		10	U
85-01-8	Phenanthrene		10	U
120-12-7	Anthracene		10	U
84-74-2	Di-n-butylphthalate		10	U
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylphthalate		10	U
56-55-3	Benzo[a]anthracene		10	U
218-01-9	Chrysene		10	U
117-81-7	bis(2-Ethylhexyl)phthalate		10	U
117-84-0	Di-n-octylphthalate		10	U
205-99-2	Benzo[b]fluoranthene		10	U
207-08-9	Benzo[k]fluoranthene		10	U
50-32-8	Benzo[a]pyrene		10	U
193-39-5	Indeno[1,2,3-cd]pyrene		10	U
53-70-3	Dibenz[a,h]anthracene		10	U
191-24-2	Benzo[g,h,i]perylene		10	U

QUALITY CONTROL REPORT

Contains:

1. Data Analysis Sheets (Form 1's) for method blanks, spiked blanks, and/or spiked samples.
2. Surrogate Recovery Report(s) (Form 2)
3. Matrix Spike/Matrix Spike Duplicate Recovery Report(s) (Form 3) and Recovery Report(s) for spiked blanks
4. Recovery Report(s) for Laboratory Control spikes
5. Blank Report(s) (Form 4)
6. Tune Check Report(s) (Form 5)
7. Initial Calibration Report(s) (Form 6)
8. Continuing Calibration Report(s) (Form 7)
9. Internal Standard Response and Retention Time Report(s) (Form 8)

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

BLANK1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: BLANK1120
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B4S8N078.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
62-75-9	N-Nitrosodimethylamine	10		U
111-44-4	bis(2-Chloroethyl)ether	10		U
108-95-2	Phenol	10		U
95-57-8	2-Chlorophenol	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-50-1	1,2-Dichlorobenzene	10		U
100-51-6	Benzyl alcohol	10		U
108-60-1	bis(2-chloroisopropyl)ether	10		U
95-48-7	2-Methylphenol	10		U
67-72-1	Hexachloroethane	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
106-44-5	4-Methylphenol	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	10		U
208-96-8	Acenaphthylene	10		U
131-11-3	Dimethylphthalate	10		U
606-20-2	2,6-Dinitrotoluene	10		U
83-32-9	Acenaphthene	10		U
99-09-2	3-Nitroaniline	10		U
51-28-5	2,4-Dinitrophenol	10		U
132-64-9	Dibenzofuran	10		U

1C
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

BLANK1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: BLANK1120
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B4S8N078.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U	
100-02-7	4-Nitrophenol	10	U	
86-73-7	Fluorene	10	U	
7005-72-3	4-Chlorophenyl-phenylether	10	U	
84-66-2	Diethylphthalate	10	U	
100-01-6	4-Nitroaniline	10	U	
534-52-1	4,6-Dinitro-2-methylphenol	10	U	
86-30-6	n-Nitrosodiphenylamine	10	U	
101-55-3	4-Bromophenyl-phenylether	10	U	
118-74-1	Hexachlorobenzene	10	U	
87-86-5	Pentachlorophenol	10	U	
85-01-8	Phenanthrene	10	U	
120-12-7	Anthracene	10	U	
84-74-2	Di-n-butylphthalate	10	U	
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
56-55-3	Benzo[a]anthracene	10	U	
218-01-9	Chrysene	10	U	
117-81-7	bis(2-Ethylhexyl)phthalate	10	U	
117-84-0	Di-n-octylphthalate	10	U	
205-99-2	Benzo[b]fluoranthene	10	U	
207-08-9	Benzo[k]fluoranthene	10	U	
50-32-8	Benzo[a]pyrene	10	U	
193-39-5	Indeno[1,2,3-cd]pyrene	10	U	
53-70-3	Dibenz[a,h]anthracene	10	U	
191-24-2	Benzo[g,h,i]perylene	10	U	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCS1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: LCS1120
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: L4S8N080.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

62-75-9	N-Nitrosodimethylamine	79	
111-44-4	bis(2-Chloroethyl)ether	100	
108-95-2	Phenol	45	
95-57-8	2-Chlorophenol	88	
541-73-1	1,3-Dichlorobenzene	71	
106-46-7	1,4-Dichlorobenzene	72	
95-50-1	1,2-Dichlorobenzene	72	
100-51-6	Benzyl alcohol	62	
108-60-1	bis(2-chloroisopropyl)ether	89	
95-48-7	2-Methylphenol	94	
67-72-1	Hexachloroethane	72	
621-64-7	N-Nitroso-di-n-propylamine	100	
106-44-5	4-Methylphenol	78	
98-95-3	Nitrobenzene	97	
78-59-1	Isophorone	93	
88-75-5	2-Nitrophenol	98	
105-67-9	2,4-Dimethylphenol	100	
111-91-1	bis(2-Chloroethoxy)methane	98	
120-83-2	2,4-Dichlorophenol	92	
120-82-1	1,2,4-Trichlorobenzene	73	
91-20-3	Naphthalene	85	
106-47-8	4-Chloroaniline	90	
87-68-3	Hexachlorobutadiene	61	
59-50-7	4-Chloro-3-methylphenol	91	
91-57-6	2-Methylnaphthalene	81	
77-47-4	Hexachlorocyclopentadiene	90	
88-06-2	2,4,6-Trichlorophenol	81	
95-95-4	2,4,5-Trichlorophenol	110	
91-58-7	2-Chloronaphthalene	88	
88-74-4	2-Nitroaniline	98	
208-96-8	Acenaphthylene	94	
131-11-3	Dimethylphthalate	57	
606-20-2	2,6-Dinitrotoluene	98	
83-32-9	Acenaphthene	91	
99-09-2	3-Nitroaniline	93	
51-28-5	2,4-Dinitrophenol	75	
132-64-9	Dibenzofuran	90	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCS1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: LCS1120
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: L4S8N080.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
121-14-2	2,4-Dinitrotoluene		96	
100-02-7	4-Nitrophenol		39	
86-73-7	Fluorene		93	
7005-72-3	4-Chlorophenyl-phenylether		86	
84-66-2	Diethylphthalate		82	
100-01-6	4-Nitroaniline		84	
534-52-1	4,6-Dinitro-2-methylphenol		94	
86-30-6	n-Nitrosodiphenylamine		100	
101-55-3	4-Bromophenyl-phenylether		91	
118-74-1	Hexachlorobenzene		86	
87-86-5	Pentachlorophenol		75	
85-01-8	Phenanthrene		97	
120-12-7	Anthracene		98	
84-74-2	Di-n-butylphthalate		97	
206-44-0	Fluoranthene		90	
129-00-0	Pyrene		110	
85-68-7	Butylbenzylphthalate		99	
56-55-3	Benzo[a]anthracene		87	
218-01-9	Chrysene		100	
117-81-7	bis(2-Ethylhexyl)phthalate		120	
117-84-0	Di-n-octylphthalate		100	
205-99-2	Benzo[b]fluoranthene		100	
207-08-9	Benzo[k]fluoranthene		99	
50-32-8	Benzo[a]pyrene		100	
193-39-5	Indeno[1,2,3-cd]pyrene		100	
53-70-3	Dibenz[a,h]anthracene		100	
191-24-2	Benzo[g,h,i]perylene		110	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCSDUP1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: LCSDUP1120
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: L4S8N081.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
62-75-9	N-Nitrosodimethylamine		78	
111-44-4	bis(2-Chloroethyl)ether		98	
108-95-2	Phenol		45	
95-57-8	2-Chlorophenol		84	
541-73-1	1,3-Dichlorobenzene		66	
106-46-7	1,4-Dichlorobenzene		68	
95-50-1	1,2-Dichlorobenzene		68	
100-51-6	Benzyl alcohol		58	
108-60-1	bis(2-chloroisopropyl)ether		86	
95-48-7	2-Methylphenol		91	
67-72-1	Hexachloroethane		69	
621-64-7	N-Nitroso-di-n-propylamine		100	
106-44-5	4-Methylphenol		76	
98-95-3	Nitrobenzene		94	
78-59-1	Isophorone		92	
88-75-5	2-Nitrophenol		97	
105-67-9	2,4-Dimethylphenol		100	
111-91-1	bis(2-Chloroethoxy)methane		98	
120-83-2	2,4-Dichlorophenol		91	
120-82-1	1,2,4-Trichlorobenzene		69	
91-20-3	Naphthalene		79	
106-47-8	4-Chloroaniline		86	
87-68-3	Hexachlorobutadiene		59	
59-50-7	4-Chloro-3-methylphenol		93	
91-57-6	2-Methylnaphthalene		79	
77-47-4	Hexachlorocyclopentadiene		88	
88-06-2	2,4,6-Trichlorophenol		76	
95-95-4	2,4,5-Trichlorophenol		110	
91-58-7	2-Chloronaphthalene		87	
88-74-4	2-Nitroaniline		98	
208-96-8	Acenaphthylene		92	
131-11-3	Dimethylphthalate		53	
606-20-2	2,6-Dinitrotoluene		97	
83-32-9	Acenaphthene		88	
99-09-2	3-Nitroaniline		93	
51-28-5	2,4-Dinitrophenol		85	
132-64-9	Dibenzofuran		88	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Number:

LCSDUP1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-0606 Site: Camp Pedrickto Code: E8270 Units: ug/L
 Matrix: (soil/water) WATER Lab Sample ID: LCSDUP1120
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: L4S8N081.D
 Level: (low/med) LOW Date Collected: 11/20/06
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 11/20/06
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/22/06
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
121-14-2	2,4-Dinitrotoluene		94	
100-02-7	4-Nitrophenol		42	
86-73-7	Fluorene		91	
7005-72-3	4-Chlorophenyl-phenylether		84	
84-66-2	Diethylphthalate		80	
100-01-6	4-Nitroaniline		86	
534-52-1	4,6-Dinitro-2-methylphenol		100	
86-30-6	n-Nitrosodiphenylamine		98	
101-55-3	4-Bromophenyl-phenylether		88	
118-74-1	Hexachlorobenzene		83	
87-86-5	Pentachlorophenol		87	
85-01-8	Phenanthrene		93	
120-12-7	Anthracene		92	
84-74-2	Di-n-butylphthalate		94	
206-44-0	Fluoranthene		85	
129-00-0	Pyrene		110	
85-68-7	Butylbenzylphthalate		100	
56-55-3	Benzo[a]anthracene		84	
218-01-9	Chrysene		95	
117-81-7	bis(2-Ethylhexyl)phthalate		120	
117-84-0	Di-n-octylphthalate		120	
205-99-2	Benzo[b]fluoranthene		93	
207-08-9	Benzo[k]fluoranthene		100	
50-32-8	Benzo[a]pyrene		100	
193-39-5	Indeno[1,2,3-cd]pyrene		100	
53-70-3	Dibenz[a,h]anthracene		110	
191-24-2	Benzo[g,h,i]perylene		110	

2C
 WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32209-060 Site: Camp Pe Code: E8270 Units: ug/L

	S1	S2	S3	S4	S5	S6	TOT
Sample Number:	(2FP) #	(PHL) #	(NBZ) #	(FBP) #	(TBP) #	(TPH) #	OUT
01 BLANK1120	51	33	77	79	65	65	0
02 LCS1120	67	44	106	96	78	74	0
03 LCSDUP1120	62	43	101	93	70	75	0
04 12-ER2	56	39	90	93	75	79	0

QC LIMITS

- S1 (2FP) = 2-FLUOROPHENOL (26-75)
- S2 (PHL) = PHENOL-d5 (18-55)
- S3 (NBZ) = NITROBENZENE-d5 (52-115)
- S4 (FBP) = 2-FLUOROBIPHENYL (49-120)
- S5 (TBP) = 2,4,6-TRIBROMOPHENOL (57-105)
- S6 (TPH) = TERPHENYL-d14 (27-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

8270C WATER LABORATORY CONTROL SPIKE REPORT

Date Acquired: 11/22/2006 14:53 Data File Name: L4S8N080.D
 Sample Name: LCS1120 Analyst: 0244MO
 Misc Info: WATER,LCS1120,C:11/20/06,X:11/20/06 Instrument: ABN4
 Method: 8270CREV Data File Path: G:\ABN4\DATA\11_22_06\

CAS No.	Compound Name	Conc. (ug/L)	Percent Recovery (%)	Range		In Spec (Yes/No)
				Lower	Upper	
62-75-9	N-Nitrosodimethylamine	79	79	48	75	No
111-44-4	bis(2-Chloroethyl)ether	101	101	62	101	Yes
108-95-2	Phenol	45	45	27	52	Yes
95-57-8	2-Chlorophenol	88	88	65	97	Yes
541-73-1	1,3-Dichlorobenzene	71	71	40	79	Yes
106-46-7	1,4-Dichlorobenzene	72	72	41	79	Yes
95-50-1	1,2-Dichlorobenzene	72	72	42	80	Yes
100-51-6	Benzyl alcohol	62	62	32	109	Yes
108-60-1	bis(2-chloroisopropyl)ether	89	89	53	112	Yes
95-48-7	2-Methylphenol	94	94	50	103	Yes
67-72-1	Hexachloroethane	72	72	33	76	Yes
621-64-7	N-Nitroso-di-n-propylamine	101	101	73	115	Yes
106-44-5	4-Methylphenol	78	78	49	95	Yes
98-95-3	Nitrobenzene	97	97	68	100	Yes
78-5-	Isophorone	93	93	39	72	No
8-75-5	2-Nitrophenol	98	98	68	103	Yes
105-67-9	2,4-Dimethylphenol	104	104	45	130	Yes
111-91-1	bis(2-Chloroethoxy)methane	98	98	67	106	Yes
120-83-2	2,4-Dichlorophenol	92	92	68	108	Yes
120-82-1	1,2,4-Trichlorobenzene	73	73	45	82	Yes
91-20-3	Naphthalene	85	85	57	87	Yes
106-47-8	4-Chloroaniline	90	90	47	91	Yes
87-68-3	Hexachlorobutadiene	61	61	32	78	Yes
59-50-7	4-Chloro-3-methylphenol	91	91	62	116	Yes
91-57-6	2-Methylnaphthalene	81	81	54	89	Yes
77-47-4	Hexachlorocyclopentadiene	90	90	21	102	Yes
88-06-2	2,4,6-Trichlorophenol	81	81	68	109	Yes
95-95-4	2,4,5-Trichlorophenol	106	106	67	117	Yes
91-58-7	2-Chloronaphthalene	88	88	60	99	Yes
88-74-4	2-Nitroaniline	98	98	66	114	Yes
208-96-8	Acenaphthylene	94	94	63	100	Yes
131-11-3	Dimethylphthalate	57	57	1	114	Yes
606-20-2	2,6-Dinitrotoluene	98	98	76	104	Yes
83-32-9	Acenaphthene	91	91	62	98	Yes
99-09-2	3-Nitroaniline	93	93	60	108	Yes
51-28-5	2,4-Dinitrophenol	75	75	36	128	Yes
132-64-9	Dibenzofuran	90	90	62	99	Yes
121-14-2	2,4-Dinitrotoluene	96	96	67	111	Yes
100-02-7	4-Nitrophenol	39	39	13	61	Yes
86-73-7	Fluorene	93	93	64	101	Yes
7005-72-3	4-Chlorophenyl-phenylether	86	86	59	106	Yes
84-66-2	Diethylphthalate	82	82	49	107	Yes
100-01-6	4-Nitroaniline	84	84	40	114	Yes
534-52-1	4,6-Dinitro-2-methylphenol	94	94	70	126	Yes
86-30-6	n-Nitrosodiphenylamine	102	102	74	109	Yes
101-55-3	4-Bromophenyl-phenylether	91	91	65	103	Yes
117-74-1	Hexachlorobenzene	86	86	63	105	Yes
87-86-5	Pentachlorophenol	75	75	59	110	Yes
85-01-8	Phenanthrene	97	97	70	100	Yes
120-12-7	Anthracene	98	98	67	99	Yes
84-74-2	Di-n-butylphthalate	97	97	63	108	Yes
206-44-0	Fluoranthene	90	90	59	105	Yes
129-00-0	Pyrene	111	111	51	117	Yes
85-68-7	Butylbenzylphthalate	99	99	24	136	Yes
56-55-3	Benzo[a]anthracene	87	87	63	102	Yes
210-01-9	Chrysene	100	100	66	101	Yes
117-81-7	bis(2-Ethylhexyl)phthalate	118	118	53	133	Yes
117-84-0	Di-n-octylphthalate	104	104	61	112	Yes
205-99-2	Benzo[b]fluoranthene	100	100	68	107	Yes
207-08-9	Benzo[k]fluoranthene	99	99	67	104	Yes
50-32-8	Benzo[a]pyrene	103	103	69	103	Yes
193-39-5	Indeno[1,2,3-cd]pyrene	100	100	47	122	Yes
53-70-3	Dibenz[a,h]anthracene	103	103	52	128	Yes
191-24-2	Benzo[g,h,i]perylene	105	105	42	132	Yes

8270C WATER LABORATORY CONTROL SPIKE REPORT

Date Acquired: 11/22/2006 15:26 Data File Name: L4S8N081.D
 Sample Name: LCSDUP1120 Analyst: 0244MO
 Misc Info: WATER,LCSDUP1120,C:11/20/06,X:1 Instrument: ABN4
 Method: 8270CREV Data File Path: G:\ABN4\DATA\11_22_06\

CAS No.	Compound Name	Conc. (ug/L)	Percent Recovery (%)	Range		In Spec (Yes/No)
				Lower	Upper	
62-75-9	N-Nitrosodimethylamine	78	78	48	75	No
111-44-4	bis(2-Chloroethyl)ether	98	98	62	101	Yes
108-95-2	Phenol	45	45	27	52	Yes
95-57-8	2-Chlorophenol	84	84	65	97	Yes
541-73-1	1,3-Dichlorobenzene	66	66	40	79	Yes
106-46-7	1,4-Dichlorobenzene	68	68	41	79	Yes
95-50-1	1,2-Dichlorobenzene	68	68	42	80	Yes
100-51-6	Benzyl alcohol	58	58	32	109	Yes
108-60-1	bis(2-chloroisopropyl)ether	86	86	53	112	Yes
95-48-7	2-Methylphenol	91	91	50	103	Yes
67-72-1	Hexachloroethane	69	69	33	76	Yes
621-64-7	N-Nitroso-di-n-propylamine	100	100	73	115	Yes
106-44-5	4-Methylphenol	76	76	49	95	Yes
98-95-3	Nitrobenzene	94	94	68	100	Yes
78-5-	Isophorone	92	92	39	72	No
8-75-5	2-Nitrophenol	97	97	68	103	Yes
105-67-9	2,4-Dimethylphenol	102	102	45	130	Yes
111-91-1	bis(2-Chloroethoxy)methane	98	98	67	106	Yes
120-83-2	2,4-Dichlorophenol	91	91	68	108	Yes
120-82-1	1,2,4-Trichlorobenzene	69	69	45	82	Yes
91-20-3	Naphthalene	79	79	57	87	Yes
106-47-8	4-Chloroaniline	86	86	47	91	Yes
87-68-3	Hexachlorobutadiene	59	59	32	78	Yes
59-50-7	4-Chloro-3-methylphenol	93	93	62	116	Yes
91-57-6	2-Methylnaphthalene	79	79	54	89	Yes
77-47-4	Hexachlorocyclopentadiene	88	88	21	102	Yes
88-06-2	2,4,6-Trichlorophenol	76	76	68	109	Yes
95-95-4	2,4,5-Trichlorophenol	107	107	67	117	Yes
91-58-7	2-Chloronaphthalene	87	87	60	99	Yes
88-74-4	2-Nitroaniline	98	98	66	114	Yes
208-96-8	Acenaphthylene	92	92	63	100	Yes
131-11-3	Dimethylphthalate	53	53	1	114	Yes
606-20-2	2,6-Dinitrotoluene	97	97	76	104	Yes
83-32-9	Acenaphthene	88	88	62	98	Yes
99-09-2	3-Nitroaniline	93	93	60	108	Yes
51-28-5	2,4-Dinitrophenol	85	85	36	128	Yes
132-64-9	Dibenzofuran	88	88	62	99	Yes
121-14-2	2,4-Dinitrotoluene	94	94	67	111	Yes
100-02-7	4-Nitrophenol	42	42	13	61	Yes
86-73-7	Fluorene	91	91	64	101	Yes
7005-72-3	4-Chlorophenyl-phenylether	84	84	59	106	Yes
84-66-2	Diethylphthalate	80	80	49	107	Yes
100-01-6	4-Nitroaniline	86	86	40	114	Yes
534-52-1	4,6-Dinitro-2-methylphenol	102	102	70	126	Yes
86-30-6	n-Nitrosodiphenylamine	98	98	74	109	Yes
101-55-3	4-Bromophenyl-phenylether	88	88	65	103	Yes
117-74-1	Hexachlorobenzene	83	83	63	105	Yes
87-86-5	Pentachlorophenol	87	87	59	110	Yes
85-01-8	Phenanthrene	93	93	70	100	Yes
120-12-7	Anthracene	92	92	67	99	Yes
84-74-2	Di-n-butylphthalate	94	94	63	108	Yes
206-44-0	Fluoranthene	85	85	59	105	Yes
129-00-0	Pyrene	112	112	51	117	Yes
85-68-7	Butylbenzylphthalate	100	100	24	136	Yes
56-55-3	Benzo[a]anthracene	84	84	63	102	Yes
210-01-9	Chrysene	95	95	66	101	Yes
117-81-7	bis(2-Ethylhexyl)phthalate	124	124	53	133	Yes
117-84-0	Di-n-octylphthalate	116	116	61	112	No
205-99-2	Benzo[b]fluoranthene	93	93	68	107	Yes
207-08-9	Benzo[k]fluoranthene	101	101	67	104	Yes
50-32-8	Benzo[a]pyrene	101	101	69	103	Yes
193-39-5	Indeno[1,2,3-cd]pyrene	101	101	47	122	Yes
53-70-3	Dibenz[a,h]anthracene	107	107	52	128	Yes
191-24-2	Benzo[g,h,i]perylene	107	107	42	132	Yes

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Sample Number:

BLANK1120

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
Profile: 32209-060 Site: Camp Pe Code: E8270 Units: ug/L
Lab File ID: B4S8N078.D Lab Sample ID: BLANK1120
Instrument ID: ABN4 Date Extracted: 11/20/06
Matrix: (soil/water) WATER Date Analyzed: 11/22/06
Level: (low/med) LOW Time Analyzed: 13:46

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	LAB	LAB	DATE
Sample Number:	SAMPLE ID	FILE ID	ANALYZED
01	LCS1120	L4S8N080.D	11/22/06
02	LCSDUP1120	L4S8N081.D	11/22/06
03	12-ER2	S4S8N084.D	11/22/06

COMMENTS:

5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-060 Site: Camp Pe Code: E8270 Units: ug/L
 Lab File ID: T4S8N001.D DFTPP Injection Date: 11/06/06
 Instrument ID: ABN4 DFTPP Injection Time: 10:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198 (10-80%)	56.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	64.4
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	40.0 - 60.0% of mass 198 (10-80%)	51.2
197	Less than 1.0% of mass 198 (<2%)	0.0
198	Base Peak, 100% relative abundance (50-100% of 442)	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198 (10-60%)	23.4
365	Greater than 1% but less than 100% of mass 198	3.1
441	Present, but less than mass 443	1.8
442	40.0 - 100.0% of mass 198 (50-200%)	83.4
443	17.0 - 23.0% of mass 442 (15-24%)	16.2 (19.4)2

1-Value is % mass 69 2-Value is % mass 442 Criteria () - 525.2 Criteria

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB	LAB	DATE	TIME
Sample Number:	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
01	SSTD160	160UG/ML CALSTD, E	C4S8N002.D	11/06/06 11:37
02	SSTD120	120UG/ML CALSTD, E	C4S8N003.D	11/06/06 12:10
03	SSTD80	80UG/ML CALSTD, EX	C4S8N004.D	11/06/06 12:44
04	SSTD50	50UG/ML CALSTD, EX	C4S8N005.D	11/06/06 13:17
05	SSTD20	20UG/ML CALSTD, EX	C4S8N006.D	11/06/06 13:50
06	SSTD10	10UG/ML CALSTD, EX	C4S8N007.D	11/06/06 14:23

5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jo
 Profile: 32209-060 Site: Camp Pe Code: E8270 Units: ug/L
 Lab File ID: T4S8N076.D DFTPP Injection Date: 11/22/06
 Instrument ID: ABN4 DFTPP Injection Time: 12:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198 (10-80%)	55.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	68.6
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198 (10-80%)	54.7
197	Less than 1.0% of mass 198 (<2%)	0.0
198	Base Peak, 100% relative abundance (50-100% of 442)	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198 (10-60%)	22.1
365	Greater than 1% but less than 100% of mass 198	2.9
441	Present, but less than mass 443	12.3
442	40.0 - 100.0% of mass 198 (50-200%)	73.5
443	17.0 - 23.0% of mass 442 (15-24%)	14.5 (19.7)2

1-Value is % mass 69 2-Value is % mass 442 Criteria () - 525.2 Criteria

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB	LAB	DATE	TIME
Sample Number:	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
01	SSTD1122	50UG/ML CCCHK, EXP	K4S8N077.D	11/22/06 13:13
02	BLANK1120	BLANK1120	B4S8N078.D	11/22/06 13:46
03	LCS1120	LCS1120	L4S8N080.D	11/22/06 14:53
04	LCSDUP1120	LCSDUP1120	L4S8N081.D	11/22/06 15:26
05	12-ER2	23167002	S4S8N084.D	11/22/06 17:07

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Tue Dec 12 10:09:16 2006
Response via : Initial Calibration

Calibration Files

10 =C4S8N007.D 20 =C4S8N006.D 50 =C4S8N005.D
80 =C4S8N004.D 120 =C4S8N003.D 160 =C4S8N002.D

Compound	10	20	50	80	120	160	Avg	%RSD
-----ISTD-----								
1) I 1,4-DICHLOROBENZENE-d								
2) MT N-Nitrosodimeth	0.877	0.988	0.970	0.977	0.990	0.976	0.963	4.44
3) S 2-FLUOROPHENOL	1.313	1.492	1.491	1.485	1.498	1.480	1.460	4.95
4) MT bis(2-Chloroeth	0.446	0.480	0.479	0.456	0.440	0.422	0.454	5.00
5) S PHENOL-d5	1.593	1.811	1.771	1.707	1.651	1.604	1.689	5.27
6) CMT Phenol	1.662	1.922	1.846	1.749	1.682	1.632	1.749	6.52
7) MT 2-Chlorophenol	1.374	1.561	1.526	1.519	1.500	1.466	1.491	4.38
8) MT 1,3-Dichloroben	1.501	1.668	1.648	1.598	1.585	1.549	1.592	3.89
9) CMT 1,4-Dichloroben	1.491	1.692	1.651	1.592	1.559	1.524	1.585	4.82
10) MT 1,2-Dichloroben	1.398	1.554	1.493	1.364	1.279	1.225	1.386	9.00
11) MT Benzyl alcohol	0.809	0.969	0.954	0.933	0.939	0.921	0.921	6.21
12) MT bis(2-chloroiso	2.615	2.992	2.947	2.807	2.660	2.545	2.761	6.64
13) MT 2-Methylphenol	1.047	1.222	1.145	1.008	0.926	0.867	1.036	12.80
14) MT Hexachloroethan	0.554	0.641	0.628	0.611	0.600	0.583	0.603	5.21
15) PMT N-Nitroso-di-n-	0.904	1.049	1.029	0.985	0.963	0.932	0.977	5.69
16) MT 4-Methylphenol	1.180	1.351	1.328	1.304	1.297	1.265	1.287	4.68
-----ISTD-----								
17) I NAPHTHALENE-d8								
18) S NITROBENZENE-d5	0.399	0.464	0.443	0.426	0.410	0.398	0.423	6.18
19) MT Nitrobenzene	0.386	0.444	0.423	0.397	0.372	0.357	0.396	8.15
20) MT Isophorone	0.677	0.769	0.739	0.748	0.749	0.730	0.735	4.27
21) MCT 2-Nitrophenol	0.195	0.241	0.230	0.206	0.185	0.178	0.206	12.05
22) MT 2,4-Dimethylphe	0.305	0.345	0.315	0.277	0.252	0.238	0.289	14.07
23) MT bis(2-Chloroeth	0.449	0.505	0.474	0.413	0.378	0.359	0.430	13.17
24) MCT 2,4-Dichlorophe	0.276	0.324	0.313	0.297	0.286	0.277	0.296	6.60
25) MT 1,2,4-Trichloro	0.288	0.319	0.302	0.284	0.268	0.256	0.286	7.95
26) MT Naphthalene	1.048	1.173	1.104	0.979	0.882	0.834	1.003	12.98
27) MT 4-Chloroaniline	0.406	0.462	0.459	0.435	0.390	0.385	0.423	8.04
28) CMT Hexachlorobutad	0.158	0.179	0.171	0.159	0.151	0.145	0.161	7.91
29) CMT 4-Chloro-3-meth	0.293	0.335	0.323	0.307	0.292	0.279	0.305	6.90
30) MT 2-Methylnaphtha	0.528	0.601	0.558	0.497	0.453	0.429	0.511	12.63
-----ISTD-----								
31) I ACENAPHTHENE-d10								
32) PMT Hexachlorocyclo	0.112	0.188	0.196	0.214	0.220	0.208	0.190	21.01
33) CMT 2,4,6-Trichloro	0.378	0.449	0.430	0.415	0.393	0.374	0.407	7.35
34) MT 2,4,5-Trichloro	0.370	0.456	0.441	0.425	0.407	0.379	0.413	8.26
35) S 2-FLUOROBIPHENY	1.340	1.487	1.388	1.277	1.169	1.111	1.295	10.80
36) MT 2-Chloronaphtha	1.208	1.346	1.279	1.186	1.090	1.021	1.188	10.03
37) MT 2-Nitroaniline	0.379	0.486	0.482	0.475	0.466	0.447	0.456	8.80
38) MT Acenaphthylene	1.952	2.163	2.035	1.879	1.726	1.619	1.896	10.55
39) MT Dimethylphthala	1.503	1.686	1.565	1.523	1.470	1.398	1.524	6.36
40) MT 2,6-Dinitrotolu	0.331	0.405	0.392	0.394	0.383	0.362	0.378	7.14
41) CMT Acenaphthene	1.187	1.320	1.206	1.061	0.964	0.903	1.107	14.32
42) TM 3-Nitroaniline	0.327	0.413	0.405	0.421	0.420	0.399	0.397	9.00
43) PMT 2,4-Dinitrophen	0.045	0.132	0.142	0.171	0.183	0.180	0.142	36.58
44) MT Dibenzofuran	1.632	1.824	1.718	1.592	1.451	1.361	1.596	10.66
45) MT 2,4-Dinitrotolu	0.379	0.511	0.488	0.500	0.496	0.475	0.475	10.21
46) PMT 4-Nitrophenol	0.109	0.173	0.176	0.196	0.205	0.203	0.177	20.41
47) MT Fluorene	1.236	1.380	1.260	1.138	1.071	1.016	1.184	11.33
48) MT 4-Chlorophenyl-	0.573	0.652	0.602	0.554	0.501	0.466	0.558	12.07
49) MT Diethylphthalat	1.553	1.751	1.667	1.553	1.441	1.360	1.554	9.19
50) MT 4-Nitroaniline	0.256	0.348	0.335	0.347	0.352	0.336	0.329	11.04
-----ISTD-----								
51) I PHENANTHRENE-d10								

(#) = Out of Range

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
 Title : CLP BNA Calibration
 Last Update : Tue Dec 12 10:09:16 2006
 Response via : Initial Calibration

Calibration Files

10 =C4S8N007.D 20 =C4S8N006.D 50 =C4S8N005.D
 80 =C4S8N004.D 120 =C4S8N003.D 160 =C4S8N002.D

Compound	10	20	50	80	120	160	Avg	%RSD
52) MT 4,6-Dinitro-2-m	0.070	0.150	0.160	0.179	0.177	0.169	0.151	27.20
53) CMT n-Nitrosodiphen	0.544	0.613	0.584	0.562	0.520	0.494	0.553	7.80
54) S 2,4,6-TRIBROMOP	0.171	0.214	0.210	0.211	0.200	0.188	0.199	8.32
55) MT 4-Bromophenyl-p	0.256	0.283	0.269	0.254	0.233	0.222	0.253	8.90
56) MT Hexachlorobenze	0.344	0.369	0.348	0.330	0.304	0.287	0.330	9.15
57) CM Pentachlorophen	0.145	0.224	0.221	0.227	0.214	0.206	0.206	14.92
58) MT Phenanthrene	1.203	1.301	1.217	1.096	1.016	0.964	1.133	11.44
59) MT Anthracene	1.169	1.289	1.231	1.112	1.033	0.988	1.137	10.15
60) MT Di-n-butylphtha	1.886	2.066	1.905	1.662	1.483	1.407	1.735	14.99
61) CMT Fluoranthene	1.080	1.249	1.186	1.082	0.984	0.952	1.089	10.47
62) I CHRYSENE-d12	-----ISTD-----							
63) M Pyrene	1.988	1.946	1.730	1.506	1.404	1.430	1.667	15.55
64) S TERPHENYL-d14	1.366	1.391	1.286	1.127	1.024	1.035	1.205	13.63
65) MT Butylbenzylphth	1.234	1.320	1.202	1.071	0.979	0.982	1.131	12.53
66) MT Benzo[a]anthrac	1.295	1.490	1.429	1.409	1.343	1.312	1.380	5.48
67) MT Chrysene	1.089	1.238	1.192	1.138	1.111	1.063	1.139	5.77
68) MT bis(2-Ethylhexy	1.764	1.834	1.639	1.419	1.283	1.279	1.536	15.80
69) I PERYLENE-d12	-----ISTD-----							
70) CMT Di-n-octylphtha	3.286	3.645	3.637	3.299	3.093	3.475	3.406	6.42
71) MT Benzo[b]fluoran	1.452	1.631	1.537	1.638	1.707	1.676	1.607	5.92
72) MT Benzo[k]fluoran	1.196	1.412	1.374	1.396	1.324	1.362	1.344	5.83
73) CMT Benzo[a]pyrene	1.044	1.238	1.228	1.235	1.253	1.219	1.203	6.54
74) MT Indeno[1,2,3-cd	0.950	1.203	1.110	1.062	1.076	1.068	1.078	7.57
75) MT Dibenz[a,h]anth	0.748	0.948	0.881	0.859	0.879	0.874	0.865	7.51
76) MT Benzo[g,h,i]per	0.823	1.001	0.915	0.840	0.830	0.839	0.875	8.05

Page 24 of 28 Pages
 Data File: G:\ABN4\DATA\11_22_06\K4S8N077.D
 Acq On : 22 Nov 2006 1:13 pm
 Sample : 50ug/mL CCCHK, EXP 9/07
 Misc : 50 CCCHK, nb824p48, LotB5120182, mo
 MS Integration Params: rteint.p

Vial: 2
 Operator: 0244MO
 Inst : ABN4
 Multiplr: 1.00

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
 Title : CLP BNA Calibration
 Last Update : Wed Nov 22 15:24:09 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-DICHLOROENZENE-d4	1.000	1.000	0.0	82	0.00
2 MT	N-Nitrosodimethylamine	0.963	0.944	2.0	80	-0.03
3 S	2-FLUOROPHENOL	1.460	1.434	1.8	79	0.00
4 MT	bis(2-Chloroethyl)ether	0.454	0.488	-7.5	84	0.00
5 S	PHENOL-d5	1.689	1.652	2.2	77	0.00
6 CMT	Phenol	1.749	1.800	-2.9	80	0.00
7 MT	2-Chlorophenol	1.491	1.478	0.9	80	0.00
8 MT	1,3-Dichlorobenzene	1.592	1.614	-1.4	81	0.00
9 CMT	1,4-Dichlorobenzene	1.585	1.636	-3.2	82	0.00
10 MT	1,2-Dichlorobenzene	1.386	1.496	-7.9	82	0.00
11 MT	Benzyl alcohol	0.921	0.534	42.0#	46#	0.00
12 MT	bis(2-chloroisopropyl)ether	2.761	2.669	3.3	75	0.00
13 MT	2-Methylphenol	1.036	1.265	-22.1#	91	0.00
14 MT	Hexachloroethane	0.603	0.676	-12.1	89	0.01
15 PMT	N-Nitroso-di-n-propylamine	0.977	0.980	-0.3	78	0.00
16 MT	4-Methylphenol	1.287	1.304	-1.3	81	0.00
17 I	NAPHTHALENE-d8	1.000	1.000	0.0	84	0.00
18 S	NITROBENZENE-d5	0.423	0.451	-6.6	85	0.00
19 MT	Nitrobenzene	0.396	0.421	-6.3	83	0.00
20 MT	Isophorone	0.735	0.735	0.0	83	0.00
21 MCT	2-Nitrophenol	0.206	0.217	-5.3	79	0.00
22 MT	2,4-Dimethylphenol	0.289	0.311	-7.6	83	0.00
23 MT	bis(2-Chloroethoxy)methane	0.430	0.482	-12.1	85	0.00
24 MCT	2,4-Dichlorophenol	0.296	0.282	4.7	75	0.00
25 MT	1,2,4-Trichlorobenzene	0.286	0.291	-1.7	81	0.00
26 MT	Naphthalene	1.003	1.054	-5.1	80	0.00
27 MT	4-Chloroaniline	0.423	0.377	10.9	69	0.00
28 CMT	Hexachlorobutadiene	0.161	0.155	3.7	76	0.00
29 CMT	4-Chloro-3-methylphenol	0.305	0.289	5.2	75	0.00
30 MT	2-Methylnaphthalene	0.511	0.526	-2.9	79	0.00
31 I	ACENAPHTHENE-d10	1.000	1.000	0.0	80	0.00
32 PMT	Hexachlorocyclopentadiene	0.190	0.199	-4.7	81	0.00
33 CMT	2,4,6-Trichlorophenol	0.407	0.342	16.0	64	0.00
34 MT	2,4,5-Trichlorophenol	0.413	0.419	-1.5	76	0.00
35 S	2-FLUOROBIPHENYL	1.295	1.307	-0.9	75	0.00
36 MT	2-Chloronaphthalene	1.188	1.251	-5.3	78	0.00
37 MT	2-Nitroaniline	0.456	0.440	3.5	73	0.00
38 MT	Acenaphthylene	1.896	2.020	-6.5	79	0.00
39 MT	Dimethylphthalate	1.524	1.508	1.0	77	0.00
40 MT	2,6-Dinitrotoluene	0.378	0.380	-0.5	78	0.00
41 CMT	Acenaphthene	1.107	1.219	-10.1	81	0.00
42 TM	3-Nitroaniline	0.397	0.354	10.8	70	0.00
43 PMT	2,4-Dinitrophenol	0.142	0.117	17.6	66	0.00
44 MT	Dibenzofuran	1.596	1.626	-1.9	76	0.00
45 MT	2,4-Dinitrotoluene	0.475	0.455	4.2	75	0.00
46 PMT	4-Nitrophenol	0.177	0.145	18.1	66	0.00
47 MT	Fluorene	1.184	1.231	-4.0	78	0.00
48 MT	4-Chlorophenyl-phenylether	0.558	0.534	4.3	71	0.00
49 MT	Diethylphthalate	1.554	1.595	-2.6	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Analytical Report 319518

Page 2 of 28 Pages
 Data File : G:\ABN4\DATA\11_22_06\K4S8N077.D
 Acq On : 22 Nov 2006 1:13 pm
 Sample : 50ug/mL CCCHK, EXP 9/07
 Misc : 50 CCCHK, nb824p48, LotB5120182, mo
 MS Integration Params: rteint.p

Vial: 2
 Operator: 0244MO
 Inst : ABN4
 Multiplr: 1.00

Method : G:\ABN4\METHODS\8270CREV.M (RTE Integrator)
 Title : CLP BNA Calibration
 Last Update : Wed Nov 22 15:24:09 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50 MT	4-Nitroaniline	0.329	0.271	17.6	65	-0.01
51 I	PHENANTHRENE-d10	1.000	1.000	0.0	72	0.00
52 MT	4,6-Dinitro-2-methylphenol	0.151	0.140	7.3	63	0.00
53 CMT	n-Nitrosodiphenylamine	0.553	0.662	-19.7	81	0.00
54 S	2,4,6-TRIBROMOPHENOL	0.199	0.167	16.1	57	0.00
55 MT	4-Bromophenyl-phenylether	0.253	0.259	-2.4	69	0.00
56 MT	Hexachlorobenzene	0.330	0.336	-1.8	69	0.00
57 CM	Pentachlorophenol	0.206	0.191	7.3	62	0.00
58 MT	Phenanthrene	1.133	1.238	-9.3	73	0.00
59 MT	Anthracene	1.137	1.198	-5.4	70	0.00
60 MT	Di-n-butylphthalate	1.735	1.989	-14.6	75	0.00
61 CMT	Fluoranthene	1.089	1.084	0.5	66	0.00
62 I	CHRYSENE-d12	1.000	1.000	0.0	61	0.00
63 M	Pyrene	1.667	1.898	-13.9	66	0.02
64 S	TERPHENYL-d14	1.205	1.226	-1.7	58	0.00
65 MT	Butylbenzylphthalate	1.131	1.281	-13.3	64	0.01
66 MT	Benzo[a]anthracene	1.380	1.376	0.3	58	0.00
67 MT	Chrysene	1.139	1.135	0.4	58	0.00
68 MT	bis(2-Ethylhexyl)phthalate	1.536	1.748	-13.8	65	0.00
69 I	PERYLENE-d12	1.000	1.000	0.0	62	0.00
70 CMT	Di-n-octylphthalate	3.406	3.327	2.3	57	0.00
71 MT	Benzo[b]fluoranthene	1.607	1.537	4.4	62	0.00
72 MT	Benzo[k]fluoranthene	1.344	1.408	-4.8	64	0.00
73 CMT	Benzo[a]pyrene	1.203	1.239	-3.0	63	0.00
74 MT	Indeno[1,2,3-cd]pyrene	1.078	1.271	-17.9	71	0.00
75 MT	Dibenzo[a,h]anthracene	0.865	1.032	-19.3	73	0.00
76 MT	Benzo[g,h,i]perylene	0.875	1.053	-20.3#	72	0.00

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32209-060 Site: Camp Pe Code: E8270 Units: ug/L
 Lab File ID (Standard): K4S8N077.D Date Analyzed: 11/22/06
 Instrument ID: ABN4 Time Analyzed: 13:13

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	98362	7.68	371101	9.66	164632	12.26
UPPER LIMIT	196724	7.18	742202	9.16	329264	11.76
LOWER LIMIT	49181	8.18	185551	10.16	82316	12.76

Sample Number:

01	BLANK1120	123000	7.68	449718	9.66	195914	12.27
02	LCS1120	116547	7.68	431395	9.66	188122	12.27
03	LCSDUP1120	115931	7.68	429910	9.66	189692	12.27
04	12-ER2	121008	7.68	439455	9.66	193831	12.26

IS1 (DCB) = 1,4-DICHLOROBENZEN
 IS2 (NPT) = NAPHTHALENE-d8
 IS3 (ANT) = ACENAPHTHENE-d10
 IS4 (PHN) = PHENANTHRENE-d10
 IS5 (CRY) = CHRYSENE-d12
 IS6 (PRY) = PERYLENE-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8C
 SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: USACHPPM/DLS/ASD/GCMS POC: Mr. David Jones
 Profile: 32209-060 Site: Camp Pe Code: E8270 Units: ug/L
 Lab File ID (Standard): K4S8N077.D Date Analyzed: 11/22/06
 Instrument ID: ABN4 Time Analyzed: 13:13

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		212451	14.08	123597	17.15	93624	19.83
UPPER LIMIT		424902	13.58	247194	16.65	187248	19.33
LOWER LIMIT		106226	14.58	61799	17.65	46812	20.33
EPA SAMPLE NO.							
01	BLANK1120	219217	14.09	106636	17.14	90396	19.83
02	LCS1120	257768	14.09	165370	17.16	118636	19.84
03	LCSDUP1120	259079	14.09	153282	17.16	99712	19.84
04	12-ER2	235541	14.08	120176	17.14	94595	19.83

- IS1 (DCB) = 1,4-DICHLOROBENZEN
- IS2 (NPT) = NAPHTHALENE-d8
- IS3 (ANT) = ACENAPHTHENE-d10
- IS4 (PHN) = PHENANTHRENE-d10
- IS5 (CRY) = CHRYSENE-d12
- IS6 (PRY) = PERYLENE-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

TERMINOLOGY/ABBREVIATIONS/CODES

Terminology/Abbreviations:

A2LA or AALA - American Association for Laboratory Accreditation

AIHA - American Industrial Hygiene Association

ASD - Analytical Spectrometry Division

COLA - Commission on Office Laboratory Accreditation

EPA - U. S. Environmental Protection Agency

GC/MS - Gas Chromatography/Mass Spectrometry

ISO - International Organization for Standardization

NLLAP - National Laboratory Lead Accreditation Program

NVLAP - National Voluntary Laboratory Accreditation Program

Analysis Data Sheet Qualifier Codes:

B - Indicates analyte was found in the associated blank as well as in the sample

D - Indicates Sample was diluted.

E - Indicates reported value exceeds the upper limit of the quantitation curve.

J - Indicates reported value is an estimate.

U - Indicates compound was analyzed for but not detected.

Note: (1) n-Nitrosodiphenylamine is detected as Diphenylamine

(2) The correct name for bis(2-chloroisopropyl)ether is 2,2'-oxybis(1-chloropropane)



U.S. Army Center for Health Promotion and Preventive Medicine
Directorate of Laboratory Sciences
Aberdeen Proving Ground, MD 21010-5403
<http://chppm-www.apgea.army.mil/dls>



Chain Of Custody (COC)

This Chain of Custody is an Addendum to the Original COC submitted on 11-15-06 SML. This is SML's internal Chain of Custody.

Profile: 32209 - 0606	Description: Camp Pedricktown-32209
Workorder #: 23167	Workorder ID: 0606320
Queue: GCMS	Customer: Program 38
Location: Camp Pedricktown	POC: Mr. David Jones
Jono: 77HR7E	Project Number: 38
Subjono: 0606	Notes: RW matrix not available for B, Cr, MET prep, Sulfur or TPH samples will be logged in once the acodes are created. Aberkshire 11-16-06
Turn Code: W020 20 Work days from receipt	

Total Samples: 1 Total Containers: 1

HSN	Container ID	Customer Sample ID	Sample Type	Matrix	Temp (C)	Date/Time Received	Date/Time Collected	Sample Due Date
23167002	23167002-1	12-ER2	SAMPLE	RW	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 04:30 PM	14-Dec-2006

ACodes:
GCMS1105 : Semi-Volatiles-Water

Total Samples: 1 Total Containers: 1

Samples Received By: <u>[Signature]</u>	Date Received: <u>11-16-06</u>
Document Reviewed By: Alyson Berkshire	Date Reviewed: <u>[Signature]</u>
Document Quality Review By: <u>Alyson Brown</u>	Date Reviewed: <u>[Signature]</u>
Samples Approved For Distribution: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date Approved: <u>[Signature]</u>



Profile: 32209 - 0606
 Workorder #: 23167
 Queue: GCMS
 Description: Camp Pedricktown~32209
 Workorder ID: 0606320
 Customer: Program 38

CHAIN OF CUSTODY RECORD
 HSN Customer Sample Id Container Id Mix Customer Sample Id Container Id Mx
 23167002 | 12-ER2 23167002-1 RW

Total Samples: 1 Total Containers: 1

Lab	Relinquished By	Date/Time	Received By	Date/Time	Comments
	<i>Alyson Berkshire</i> From refrigerator	11-16-06 1405	See SML's Comments	11-16-06 1405	To holding refrigerator in room #0202
	<i>Alyson Berkshire</i>	11-16-06 1405	See SML's Comments	11-16-06 1405	Sample Numbering.
	<i>From Fridge SML</i>	11-17-06 1405	See SML's Comments		Returned to holding refrigerator in room #0202.
	<i>Melanie S. Ball...</i>				

Remarks:



COC #: 314514

Profile: 32209 - 0606	Description: Camp Pedricktown~32209
Workorder #: 23167	Workorder ID: 0606320
Queue: GCMS	Customer: Program 38

SAMPLE DISPOSAL RECORD

HSN	Date Of Disposal	Number Of Containers	Signature	Remarks
23167002		1		

Total Samples: 1 Total Containers: 1

Chain of Custody

C-73

DRO

DIRECTORATE OF LABORATORY SCIENCES
CONTRACT DATA TECHNICAL REVIEW

PROJECT OFFICER: David JONES DIVISION/TEAM: IH
INSTALLATION: Camp Pedrick Town CONTRACT LAB: LLH
PROJECT NO: 38-0606 LIMS W.O. NO: 23167

DLS TECHNICAL REVIEW OF YOUR CONTRACT DATA PACKAGE HAS BEEN COMPLETED. THE FOLLOWING ACTION HAS BEEN TAKEN:

DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE AS SUBMITTED.

DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE WITH COMMENTS NOTED BELOW.

OTHER.

COMMENTS/ NARRATIVE:

REVIEWED BY: Robert Bulechki
DATE: 12/15/06

DLS CR 1.1

JUNE 2001



ANALYTICAL RESULTS

Prepared for:

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

410-436-4465

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1014818. Samples arrived at the laboratory on Friday, November 17, 2006. The PO# for this group is DAAD05-02-D-0037.

Client Description

23167002 Camp Pedricktown #32209-0606 Jones Water

Lancaster Labs Number

4919800

METHODOLOGY

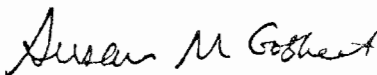
The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO U.S. Army CHPPM
1 COPY TO Data Package Group

Attn: Rick Puzniak

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,


Susan M. Goshert
Group Leader

0020



Lancaster Laboratories Sample No. WW 4919800

23167002 Camp Pedricktown #32209-0606 Jones Water
 Field# 12-ER2 # 02-D-0037
 Pick-Up Order #043 Delivery Order# 05 Water

Collected: 11/14/2006 16:30

Account Number: 04694

Submitted: 11/17/2006 14:40
 Reported: 11/26/2006 at 14:01
 Discard: 02/05/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

67002 SDG#: PSX36-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	59. J	98.	29.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	11/20/2006 19:04	Tracy A Cole	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	11/20/2006 08:00	Tracy L Schickel	1

8021

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 N. Second Street
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



CLIENT: U.S. Army CHPPM
SDG: PSX36

LANCASTER LABORATORIES

TPH-DRO by 8015B

MATRIX

<u>LLI SAMPLE #</u>	<u>SAMPLE CODE</u>	<u>WATER</u>	<u>SOLID</u>	<u>COMMENT</u>
BLANKA 11/20/06	PBLKX1	X		Method Blank
LCSA	LCS6C	X		Lab Control Spike
LCSDA	LCSD8	X		Lab Control Spike Dup
4919800	67002	X		

A. Sample Preparation:

Sufficient sample volume was not available to perform an MS/MSD for this batch. Therefore, an LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

No other problems were encountered with the preparation of the samples.

B. Analysis:

The analysis was performed using the following runs:

- F312, F324, F324A,

No problems were encountered during analysis.

C. Quality Control:

All QC data are within specifications.

D. Data Interpretation:

Data indicating manual integration requires the following codes:

- 1 = missed peak
- 2 = improper baseline

The peaks/area that have been manually changed are indicated with an "M" on the raw data.

The method blank was evaluated to the MDL. Values between the MDL and the LOQ are reported with a "J" qualifier.

No further interpretation is needed.

Narrative reviewed and approved by:


 Dana Kauffman, Manager Data Deliverables

12-11-06
 Date

0025

**Sample Reference List for SDG Number PSX36
with a Data Package Type of Aberdeen
04694 - U.S. Army CHPPM
Project: PO# 043, DO# 05 Camp Pedricktown**

Lab Sample Number	Lab Sample Code	Client Sample Description	
4919800	67002	23167002 Camp Pedricktown #32209-0606 Jones Water Field# 12-ER2 0037	# 02-D-

2E
WATER SURROGATE RECOVERY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No:

SDG No.: PSX36

GC Column (1): CAPILLARY ID: .53

GC Column (2):

ID:

Batchnumber: 063220007A

SAMPLE	SAMPLE CODE NO.	O-TP 1 % REC #	O-TP 2 % REC #	TOT OUT
4919800	67002	98		0
BLANKA	PBLKX1	95		0
LCSA	LCS6C	99		0
LCSDA	LCSDD8	106		0

O-TP = o-Terphenyl

ADVISORY
QC LIMITS
(54 - 127)

NOMINAL
CONCENTRATION
12 ug/l

8827

Column to be used to flag recovery values
* Values outside of QC Limits
D Surrogate diluted out

3E

Water Lab Control Spike/Lab Control Spike Duplicate Recovery

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Laboratory Control Spike - Sample Code No.: LCS6C

Compound	Spike Added (ug/l)	LCS Concen (ug/l)	LCSD Concen (ug/l)	LCS % Rec #	LCSD % Rec #	LCS-LCSD % REC Limits	% RPD #	% RPD Lim
Total DRO	800	830	830	104	104	(63 - 119)	0	20

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

8828

Comments: Results calculated on as-received basis.

Sample No.: LCSA

Batch: 063220007A

METHOD BLANK SUMMARY

SAMPLE CODE NO.

PBLKX1

Lab Name: Lancaster Laboratories Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: PSX36Lab Sample ID BLANKA Batch 063220007ALab File ID: F324A.22RMatrix: (soil/water) WATERExtraction: (SepF/Cont/Sonc) SEPFSulfur Cleanup: (Y/N) NDate Extracted: 11/20/2006Date Analyzed (1): 11/20/2006

Date Analyzed (2):

Time Analyzed (1): 17:41:25

Time Analyzed (2):

Instrument ID (1): H6612A

Instrument ID (2):

GC Column: CAPILLARY ID: 0.53 (mm)

GC Column: ID: (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD

	SAMPLE CODE NO.	LAB SAMPLEID	DATE ANALYZED 1	DATE ANALYZED 2
01	67002	4919800	11/20/2006	
02	PBLKX1	BLANKA	11/20/2006	
03	LCS6C	LCSA	11/20/2006	
04	LCSD8	LCSDA	11/20/2006	

0029

COMMENTS: _____

ORGANICS ANALYSIS DATA SHEET

PBLKX1

Lab Name: Lancaster Laboratories Contract: Batchnumber: 063220007A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATERLab Sample ID: BLANKASample wt/vol: 1000 (g/ml) MLLab File ID: F324A.22R

% Moisture: Decanted: (Y/N)

Date Received:

Extraction: (SepF/Cont/Sonc) SEPFDate Extracted: 11/20/2006Concentrated Extract Volume: 1000 (uL)Date Analyzed: 11/20/2006Injection Volume: 1 (uL)Dilution Factor: 1GPC Cleanup: (Y/N) N pH:Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS

CAS NO. COMPOUND (UG/L or UG/KG) ug/l Q

CAS NO.	COMPOUND	(UG/L or UG/KG) <u>ug/l</u>	Q
PHCD	Total DRO		29 U

0000

DPO

DIRECTORATE OF LABORATORY SCIENCES
CONTRACT DATA TECHNICAL REVIEW

PROJECT OFFICER: David Jones DIVISION/TEAM: IH
INSTALLATION: Camp Pedricktown CONTRACT LAB: LLH
PROJECT NO: 38-0606 LIMS W.O. NO: 23164

DLS TECHNICAL REVIEW OF YOUR CONTRACT DATA PACKAGE HAS BEEN COMPLETED. THE FOLLOWING ACTION HAS BEEN TAKEN:

DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE AS SUBMITTED.

DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE WITH COMMENTS NOTED BELOW.

OTHER.

COMMENTS/ NARRATIVE:

REVIEWED BY: [Signature]
DATE: 12/15/06



ANALYTICAL RESULTS

Prepared for:

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

410-436-4465

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1014817. Samples arrived at the laboratory on Friday, November 17, 2006. The PO# for this group is DAAD05-02-D-0037.

Client Description

23164010 Camp Pedricktown #32204-0606 Jones Soil
23164011 Camp Pedricktown #32204-0606 Jones Soil
23164012 Camp Pedricktown #32204-0606 Jones Soil
23164013 Camp Pedricktown #32204-0606 Jones Soil

Lancaster Labs Number

4919796
4919797
4919798
4919799

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

U.S. Army CHPPM
Data Package Group

Attn: Rick Puzniak

8822



Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

Melissa A McSermott
Senior Chemist

0023



Lancaster Laboratories Sample No. SW 4919796

23164010 Camp Pedricktown #32204-0606 Jones Soil
 Field# 12-SB-01-1830 # 02-D-0037
 Pick-Up Order #042 Delivery Order# 05 Soil

Collected: 11/14/2006 14:55

Account Number: 04694

Submitted: 11/17/2006 14:40
 Reported: 11/30/2006 at 15:53
 Discard: 02/09/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

64010 SDG#: PSX35-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry	Dry	Units	Dilution Factor
				Limit of Quantitation*	Method Detection Limit		
08270	27 TPH-DRO by 8015B - soil	n.a.	N.D.	13.	4.5	mg/kg	1
00111	71 Moisture	n.a.	10.6	0.50	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08270	27 TPH-DRO by 8015B - soil	SW-846 8015B	1	11/28/2006 03:43	Tracy A Cole	1
00111	71 Moisture	EPA 160.3 modified	1	11/28/2006 09:51	William C Schwebel	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/24/2006 15:00	Jason A Heisey	1

8824

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4919797

23164011 Camp Pedricktown #32204-0606 Jones Soil
 Field# 12-SB-02-1830 # 02-D-0037
 Pick-Up Order #042 Delivery Order# 05 Soil

Collected: 11/14/2006 15:10

Account Number: 04694

Submitted: 11/17/2006 14:40
 Reported: 11/30/2006 at 15:53
 Discard: 02/09/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

64011 SDG#: PSX35-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Units	Dilution Factor
08270	27 TPH-DRO by 8015B - soil	n.a.	N.D.	13.	4.4	mg/kg	1
00111	71 Moisture	n.a.	9.7	0.50	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
08270	27 TPH-DRO by 8015B - soil	SW-846 8015B	1	11/28/2006 01:11	Tracy A Cole	1
00111	71 Moisture	EPA 160.3 modified	1	11/28/2006 09:51	William C Schwebel	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/24/2006 15:00	Jason A Heisey	1

8825



Lancaster Laboratories Sample No. SW 4919798

23164012 Camp Pedricktown #32204-0606 Jones Soil
Field# 12-SB-03-1830 # 02-D-0037
Pick-Up Order #042 Delivery Order# 05 Soil

Collected: 11/14/2006 15:30

Account Number: 04694

Submitted: 11/17/2006 14:40
Reported: 11/30/2006 at 15:53
Discard: 02/09/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

64012 SDG#: PSX35-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Units	Dilution Factor
08270	27 TPH-DRO by 8015B - soil	n.a.	N.D.	13.	4.4	mg/kg	1
00111	71 Moisture	n.a.	9.3	0.50	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
08270	27 TPH-DRO by 8015B - soil	SW-846 8015B	1	11/28/2006 01:33	Tracy A Cole	1
00111	71 Moisture	EPA 160.3 modified	1	11/28/2006 09:51	William C Schwebel	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/24/2006 15:00	Jason A Heisey	1

0826

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. SW 4919799

23164013 Camp Pedricktown #32204-0606 Jones Soil
 Field# 12-SB-03A-1830 # 02-D-0037
 Pick-Up Order #042 Delivery Order# 05 Soil

Collected: 11/14/2006 15:30

Account Number: 04694

Submitted: 11/17/2006 14:40
 Reported: 11/30/2006 at 15:53
 Discard: 02/09/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

64013 SDG#: PSX35-04*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Units	Dilution Factor
08270	27 TPH-DRO by 8015B - soil	n.a.	13. J	13.	4.4	mg/kg	1
00111	71 Moisture	n.a.	8.8	0.50	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
08270	27 TPH-DRO by 8015B - soil	SW-846 8015B	1	11/28/2006 07:22	Tracy A Cole	1
00111	71 Moisture	EPA 160.3 modified	1	11/28/2006 09:51	William C Schwebel	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/24/2006 15:00	Jason A Heisey	1

8827

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



CLIENT: U.S. Army CHPPM
SDG: PSX35

LANCASTER LABORATORIES

TPH-DRO by 8015B

MATRIX

<u>LLI SAMPLE #</u>	<u>SAMPLE CODE</u>	<u>WATER</u>	<u>SOLID</u>	<u>COMMENT</u>
BLANKA 11/24/06	PBLK08		X	Method Blank
LCSA	LCS9P		X	Lab Control Spike
4919796	64010		X	Background
4919797	64011		X	
4919798	64012		X	
4919799	64013		X	
LAB SUBMITTED QC:				
4919796DUP	64010DUP		X	Duplicate
4919796MS	64010MS		X	Matrix Spike

A. Sample Preparation:

No problems were encountered with the preparation of the samples.

B. Analysis:

The analysis was performed using the following runs:

- U324

No problems were encountered during analysis.

C. Quality Control:

All QC data are within specifications.

D. Data Interpretation:

Data indicating manual integration requires the following codes:

1 = missed peak

2 = improper baseline

The peaks/area that have been manually changed are indicated with an "M" on the raw data.

The method blank was evaluated to the MDL. Values between the MDL and the LOQ are reported with a "J" qualifier.

No further interpretation is needed.

0035



Narrative reviewed and approved by:

Dana Kauffman for:
Dana Kauffman, Manager Data Deliverables

12-7-06
Date

0036

Sample Reference List for SDG Number PSX35
with a Data Package Type of Aberdeen
04694 - U.S. Army CHPPM
 Project: PO# 042, DO# 05 Camp Pedricktown

<u>Lab Sample Number</u>	<u>Lab Sample Code</u>	<u>Client Sample Description</u>	
4919796	64010	23164010 Camp Pedricktown #32204-0606 Jones Soil D-0037	Field# 12-SB-01-1830 # 02-
4919797	64011	23164011 Camp Pedricktown #32204-0606 Jones Soil D-0037	Field# 12-SB-02-1830 # 02-
4919798	64012	23164012 Camp Pedricktown #32204-0606 Jones Soil D-0037	Field# 12-SB-03-1830 # 02-
4919799	64013	23164013 Camp Pedricktown #32204-0606 Jones Soil D-0037	Field# 12-SB-03A-1830 # 02-

0037

2F SOIL SURROGATE RECOVERY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No:

SDG No.: PSX35

GC Column (1): HP5

ID: .53

GC Column (2):

ID:

Batchnumber: 063260017A

SAMPLE	SAMPLE CODE NO.	O-TP 1 % REC #	O-TP 2 % REC #	TOT OUT
4919796	64010	97		0
4919796	64010DUP	96		0
4919796 MS	64010MS	93		0
4919797	64011	95		0
4919798	64012	95		0
4919799	64013	101		0
BLANKA	PBLK08	97		0
LCSA	LCS9P	96		0

O-TP = o-Terphenyl

ADVISORY
QC LIMITS
(45 - 129)

NOMINAL
CONCENTRATION
1.00 mg/kg

0038

Column to be used to flag recovery values

* Values outside of QC Limits

D Surrogate diluted out

3F

Soil Lab Control Spike/Lab Control Spike Duplicate Recovery

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Laboratory Control Spike - Sample Code No.: LCS9P

Compound	Spike Added (mg/kg)	LCS Concen (mg/kg)	LCSD Concen (mg/kg)	LCS % Rec #	LCSD % Rec #	LCS-LCSD % REC Limits	% RPD #	% RPD Lim
Total DRO	66.74	61.57		92		(53 - 120)		20

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 1 outside limits

0039

Comments: Results calculated on as-received basis.

Sample No.: LCSA

Batch: 063260017A

3F

Soil Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix Spike - Sample Code No.: 64010

Compound	Spike Added (mg/kg)	Sample Concen (mg/kg)	MS Concen (mg/kg)	MSD Concen (mg/kg)	MS % Rec #	MSD % Rec #	MS-MSD % REC Limits	% RPD #	% RPD Lim
Total DRO	66.74	61.29	57.16		86.84		(21 - 136)		20

③ New Do 11/30/06

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 1 outside limits

0040

Comments: Results calculated on as-received basis.

Sample No.: 4919796

Batch: 063260017A

METHOD BLANK SUMMARY

SAMPLE CODE NO.

PBLK08

Lab Name: Lancaster Laboratories Contract:Lab Code: Case No.: SAS No.: SDG No.: PSX35Lab Sample ID BLANKA Batch 063260017ALab File ID: U324.64RMatrix: (soil/water) SOILExtraction: (SepF/Cont/Sonc) SONCSulfur Cleanup: (Y/N) NDate Extracted: 11/24/2006Date Analyzed (1): 11/27/2006

Date Analyzed (2):

Time Analyzed (1): 23:01:04

Time Analyzed (2):

Instrument ID (1): A8642A

Instrument ID (2):

GC Column: HP5 ID: 0.53 (mm)

GC Column: ID: (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD

	SAMPLE CODE NO.	LAB SAMPLEID	DATE ANALYZED 1	DATE ANALYZED 2
01	64010	4919796	11/28/2006	
02	64010DUP	4919796	11/28/2006	
03	64010MS	4919796	11/28/2006	
04	64011	4919797	11/28/2006	
05	64012	4919798	11/28/2006	
06	64013	4919799	11/28/2006	
07	PBLK08	BLANKA	11/27/2006	
08	LCS9P	LCSA	11/27/2006	

00000

COMMENTS: _____

ORGANICS ANALYSIS DATA SHEET

PBLK08

Lab Name: Lancaster Laboratories Contract: Batchnumber: 063260017A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOILLab Sample ID: BLANKASample wt/vol: 60 (g/ml) gLab File ID: U324.64R

% Moisture: Decanted: (Y/N)

Date Received:

Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 11/24/2006Concentrated Extract Volume: 5000 (uL)Date Analyzed: 11/27/2006Injection Volume: 1 (uL)Dilution Factor: 1

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS

CAS NO.	COMPOUND	(UG/L or UG/KG) mg/kg	Q
PHCD	Total DRO		4.0U

0042

**U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#947DO#1**

SDG: 0611381

DECEMBER 7, 2006

Submitted by:

TriMatrix Laboratories, Inc.

SDG CASE NARRATIVE
Level 5 Analysis

**U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#947DO#1
DECEMBER 7, 2006**

This case narrative is applicable to all samples received November 17, 2006. TriMatrix laboratory sample numbers were assigned as follows:

Work Order (SDG) Number: 0611381

Laboratory Sample Number(s)	USACHPPM Sample Identification:		Matrix
0611381-01	23159003	434-SB-01-3042	Soil
0611381-02	23159007	434-SB-02A-1830	Soil
0611381-03	23159008	434-SB-02-1830	Soil

Sample Receipt

On November 17, 2006 at 8:40 am a Sample Delivery Group (SDG) containing a total of three (3) soil samples was received via Federal Express directly from the USACHPPM laboratory, Aberdeen Proving Grounds, Maryland. All samples and containers were received intact and in good condition. Shipping documents included a Pick-up/Work/Delivery Order and a Federal Express air bills. The receipt temperature of the samples was determined by recording the temperature reading of three sample containers, using an infrared thermometer. The average of those containers for cooler was 10°C.

QA/QC / Technical Issues or Problems

QA/QC or technical problems encountered during the analysis of this SDG are summarized on the following page(s).

As these samples were soils, 10 grams of soil was extracted into 100 mL of water which was shaken for 1 hour, filtered and then the filtrate was analyzed.

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.

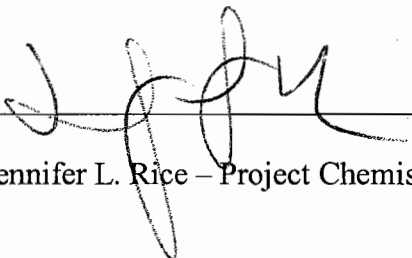
In addition to the location of information, the following is a list of QA/QC types utilized by TriMatrix Laboratories, and our in-house type designations.

Method QC:

MPB Method Preparation Blank
BLK Daily Instrument Blank
LFB Laboratory Fortified Blank
LCS Laboratory Control Sample
IEC ICP Interference Check Sample
CRL Contract Required Detection Limit Standard
ICB Initial Calibration Blank
ICV Initial Calibration Verification
CCB Continuing Calibration Blank
CCV Continuing Calibration Verification

Matrix QC:

SPK Sample Matrix Spike
MSD Sample Matrix Spike Duplicate
DUP Sample Matrix Duplicate
SUR Sample Matrix Surrogate
PDS Post Digestion Spike



Jennifer L. Rice – Project Chemist

12/7/00

TABLE OF CONTENTS LEVEL 5 DELIVERABLES

U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#947DO#1
DECEMBER 7, 2006

<u>Section I.D.</u>	<u>Description</u>	<u>Pages:</u>
A	Field/Internal COC Records, Air Bill	001-012
B	Inorganic Data	013-052
	Percent Solids	014-028
	Sulfate - 9038	029-052



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611381**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23159003 434-SB-01-3042** Sampled: 11/13/06 09:15
Lab Sample ID: **0611381-01** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	92	0.1	%	1	USEPA-3550B	11/27/06	SSM	0613931
Sulfate (soluble)	<54	54	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611381**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23159007 434-SB-02A-1830** Sampled: 11/13/06 14:00
Lab Sample ID: **0611381-02** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	89	0.1	%	1	USEPA-3550B	11/27/06	SSM	0613931
Sulfate (soluble)	<56	56	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611381**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23159008 434-SB-02-1830** Sampled: 11/13/06 14:00
Lab Sample ID: **0611381-03** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	89	0.1	%	1	USEPA-3550B	11/27/06	SSM	0613931
Sulfate (soluble)	<56	56	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
---------	--------------	------------	--------	------	--------------	----------------	-----	------------	----

Analyte: Percent Solids/USEPA-3550B

QC Batch: 0613931 (Method-Specific Preparation) Analyzed: 11/27/2006 By: SSM

Method Blank			<0.1	%					0.1
0611381-01 23159003 434-SB-01-3042									
Duplicate	92		92	%			0.08 20		0.1

Analyte: Sulfate (soluble)/USEPA-9038

QC Batch: 0614034 (Method-Specific Preparation) Analyzed: 11/30/2006 By: VAS

Method Blank			<50	mg/kg wet					50
Laboratory Control Sample		8.34	8.07	mg/L	97	86-113			
0611381-01 23159003 434-SB-01-3042									
Matrix Spike	<54	216	173	mg/kg dry	80	50-152			54
Matrix Spike Duplicate	<54	219	201	mg/kg dry	92	50-152	15 20		54



STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.



U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

DIRECTORATE OF LABORATORY SCIENCES (DLS)

5158 BLACKHAWK ROAD

ABERDEEN PROVING GROUND, MARYLAND 21010-5403

(410) 436-2208

FINAL ANALYTICAL REPORT

14 DEC 2006

**CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305**

**PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32197 DLS WORK ORDER #: 23159
REPORT SERIAL NUMBER: 319584**

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature: *Ronald J. Swatski* **Date:** 14 December 2006
for Ronald J. Swatski, Chief, Radiologic, Classic, and Clinical Chemistry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23159, Report Serial No. 319584, 12/14/2006

CASE NARRATIVE

Provided are the results for three (3) soil samples from the Camp Pedricktown project for classic inorganic analyses. The Classic Chemistry Team (CLS) does not currently perform Sulfate SO₄ and Percent Dry Weight (percent solids) analyses in house, therefore the samples were sent to TriMatrix Laboratories, Inc. (TML). The samples were collected on 13 Nov 2006 and were received by DLS on 14 Nov 2006. The temperature upon receipt was 2 degrees C, within the recommended acceptable temperature range of 2 to 6 degrees Centigrade. The sample containers were sent to TML, where they were received intact and in good condition on 17 Nov 2006. The average temperature for the containers upon receipt was 10 degrees Centigrade, which is outside the recommended acceptable temperature range of 2 to 6 degrees Centigrade.

SAMPLE PREPARATION:

As these samples were soils, 10 grams of soil was extracted into 100 mL of water which was shaken for 1 hour, filtered and then the filtrate was analyzed for sulfate. Results were corrected to a dry weight basis. Sample prep holding times were met.

SAMPLE ANALYSIS:

1. These analyses were performed, under contract, by TriMatrix Laboratories, Inc. (TML).
2. The samples were analyzed on 30 Nov 2006.
3. The methods used to analyze the samples were as follows: EPA-9038 for Sulfate and EPA-3550B (Section 7.2) for Percent Dry Weight (percent solids).

QUALITY CONTROL:

1. Results from all quality control data were within acceptable limits.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	1
Quality Control Data Report	0
Raw Data	0
Terminology/Abbreviations	1

Report Point-of-Contact: Mary Jo George

Reviewer: IS 

List of all tests used:

DLS Procedure	Count
EPA 9038	3

Number of samples included in the report, by matrix:

Matrix	Quantity
Soil	3

Analyst(s):

Analyst Code	Analyst Name	Signature
0116	TML	

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
434-SB-01-3042	23159003	13-Nov-06	Soil
434-SB-02-1830	23159008	13-Nov-06	Soil
434-SB-02A-1830	23159007	13-Nov-06	Soil

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by Field ID

FINAL REPORT

Field ID: 434-SB-01-3042

DLS ID: 23159003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	<54.0 mg/kg-dwb	54.0	EPA 9038	0116	30-Nov-06

Field ID: 434-SB-02-1830

DLS ID: 23159008

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	<56.0 mg/kg-dwb	56.0	EPA 9038	0116	30-Nov-06

Field ID: 434-SB-02A-1830

DLS ID: 23159007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	<56.0 mg/kg-dwb	56.0	EPA 9038	0116	30-Nov-06

TERMINOLOGY/ABBREVIATIONS

Term	Description
NLLAP	National Lead Laboratory Accreditation Program
COLA	Commission on Office Laboratory Accreditation
A2LA	American Association for Laboratory Accreditation
AIHA	American Industrial Hygiene Association

**U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#948DO#1**

SDG: 0611382

DECEMBER 7, 2006

Submitted by:

TriMatrix Laboratories, Inc.

SDG CASE NARRATIVE

Level 5 Analysis

**U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#948DO#1
DECEMBER 7, 2006**

This case narrative is applicable to all samples received November 17, 2006. TriMatrix laboratory sample numbers were assigned as follows:

Work Order (SDG) Number: 0611382

Laboratory Sample Number(s)	USACHPPM Sample Identification:		Matrix
0611382-01	23164003	434-SB-03-3042	Soil
0611382-02	23164006	434-SB-04-3042	Soil
0611382-03	23164009	434-SB-05-3042	Soil
0611382-04	23164012	12-SB-03-1830	Soil
0611382-05	23164013	12-SB-03A-1830	Soil

Sample Receipt

On November 17, 2006 at 8:40 am a Sample Delivery Group (SDG) containing a total of five (5) soil samples was received via Federal Express directly from the USACHPPM laboratory, Aberdeen Proving Grounds, Maryland. All samples and containers were received intact and in good condition. Shipping documents included a Pick-up/Work/Delivery Order and a Federal Express air bills. The receipt temperature of the samples was determined by recording the temperature reading of three sample containers, using an infrared thermometer. The average of those containers for cooler was 10°C.

QA/QC / Technical Issues or Problems

QA/QC or technical problems encountered during the analysis of this SDG are summarized on the following page(s).

As these samples were soils, 10 grams of soil was extracted into 100 mL of water which was shaken for 1 hour, filtered and then the filtrate was analyzed.

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.

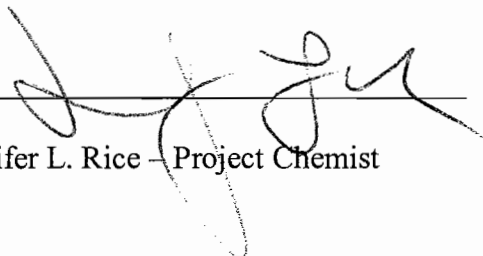
In addition to the location of information, the following is a list of QA/QC types utilized by TriMatrix Laboratories, and our in-house type designations.

Method QC:

MPB Method Preparation Blank
BLK Daily Instrument Blank
LFB Laboratory Fortified Blank
LCS Laboratory Control Sample
IEC ICP Interference Check Sample
CRL Contract Required Detection Limit Standard
ICB Initial Calibration Blank
ICV Initial Calibration Verification
CCB Continuing Calibration Blank
CCV Continuing Calibration Verification

Matrix QC:

SPK Sample Matrix Spike
MSD Sample Matrix Spike Duplicate
DUP Sample Matrix Duplicate
SUR Sample Matrix Surrogate
PDS Post Digestion Spike



Jennifer L. Rice – Project Chemist

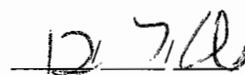


TABLE OF CONTENTS

LEVEL 5 DELIVERABLES

U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#948DO#1
DECEMBER 7, 2006

<u>Section I.D.</u>	<u>Description</u>	<u>Pages:</u>
A	Field/Internal COC Records, Air Bill	001-012
B	Inorganic Data	013-054
	Percent Solids	014-030
	Sulfate - 9038	031-054



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611382**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23164003 434-SB-03-3042** Sampled: 11/14/06 12:50
Lab Sample ID: **0611382-01** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	92	0.1	%	1	USEPA-3550B	11/22/06	SSM	0613873
Sulfate (soluble)	150	55	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611382**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23164006 434-SB-04-3042** Sampled: 11/14/06 13:30
Lab Sample ID: **0611382-02** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	89	0.1	%	1	USEPA-3550B	11/22/06	SSM	0613873
Sulfate (soluble)	70	56	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611382**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23164009 434-SB-05-3042** Sampled: 11/14/06 14:00
Lab Sample ID: **0611382-03** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	90	0.1	%	1	USEPA-3550B	11/22/06	SSM	0613873
Sulfate (soluble)	59	56	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611382**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23164012 12-SB-03-1830** Sampled: 11/14/06 15:30
Lab Sample ID: **0611382-04** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	91	0.1	%	1	USEPA-3550B	11/22/06	SSM	0613873
Sulfate (soluble)	<55	55	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



ANALYTICAL REPORT

Client: **U.S. ARMY CHPPM** Work Order: **0611382**
Project: Installation: Camp Pedricktown Program 38--38 Description: Laboratory Services
Client Sample ID: **23164013 12-SB-03A-1830** Sampled: 11/14/06 15:30
Lab Sample ID: **0611382-05** Sampled By: US Army
Matrix: Soil Received: 11/17/06 08:40

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Dilution Unit	Factor	Method	Date Analyzed	By	QC Batch
Percent Solids	91	0.1	%	1	USEPA-3550B	11/22/06	SSM	0613873
Sulfate (soluble)	66	55	mg/kg dry	1	USEPA-9038	11/30/06	VAS	0614034



QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
---------	--------------	------------	--------	------	--------------	----------------	-----	------------	----

Analyte: Percent Solids/USEPA-3550B

QC Batch: 0613873 (Method-Specific Preparation) Analyzed: 11/22/2006 By: SSM

Method Blank <0.1 % 0.1

0611382-01 23164003 434-SB-03-3042

Duplicate 92 **91** % 0.07 20 0.1

Analyte: Sulfate (soluble)/USEPA-9038

QC Batch: 0614034 (Method-Specific Preparation) Analyzed: 11/30/2006 By: VAS

Method Blank <50 mg/kg wet 50

Laboratory Control Sample 8.34 **8.07** mg/L 97 86-113



STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.



U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

DIRECTORATE OF LABORATORY SCIENCES (DLS)

**5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403
(410) 436-2208**

FINAL ANALYTICAL REPORT


14 DEC 2006

**CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305**

**PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32204 DLS WORK ORDER #: 23164
REPORT SERIAL NUMBER: 319597**

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature:  **Date:** 14 December 2006
for **Ronald J. Swatski, Chief, Radiologic, Classic, and Clinical Chemistry Division**

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23164, Report Serial No. 319597, 12/14/2006

CASE NARRATIVE

Provided are the results for five (5) soil samples from the Camp Pedricktown project for classic inorganic analyses. The Classic Chemistry Team (CLS) does not currently perform Sulfate SO4 and Percent Dry Weight (percent solids) analyses in house, therefore the samples were sent to TriMatrix Laboratories, Inc. (TML). The samples were collected on 14 Nov 2006 and were received by DLS on 15 Nov 2006. The temperature upon receipt was 8 degrees C, outside the recommended acceptable temperature range of 2 to 6 degrees Centigrade. The sample containers were sent to TML, where they were received intact and in good condition on 17 Nov 2006. The average temperature for the containers upon receipt was 10 degrees Centigrade, which is outside the recommended acceptable temperature range of 2 to 6 degrees Centigrade.

SAMPLE PREPARATION:

As these samples were soils, 10 grams of soil was extracted into 100 mL of water which was shaken for 1 hour, filtered and then the filtrate was analyzed for sulfate. Results were corrected to a dry weight basis. Sample prep holding times were met.

SAMPLE ANALYSIS:

1. These analyses were performed, under contract, by TriMatrix Laboratories, Inc. (TML).
2. The samples were analyzed on 30 Nov 2006.
3. The methods used to analyze the samples were as follows: EPA-9038 for Sulfate and EPA-3550B (Section 7.2) for Percent Dry Weight (percent solids).

QUALITY CONTROL:

1. Results from all quality control data were within acceptable limits.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	1
Quality Control Data Report	0
Raw Data	0
Terminology/Abbreviations	1

Report Point-of-Contact: Mary Jo George

Reviewer: IS 

List of all tests used:

DLS Procedure	Count
EPA 9038	5

Number of samples included in the report, by matrix:

Matrix	Quantity
Soil	5

Analyst(s):

Analyst Code	Analyst Name	Signature
0116	TML	

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
12-SB-03-1830	23164012	14-Nov-06	Soil
12-SB-03A-1830	23164013	14-Nov-06	Soil
434-SB-03-3042	23164003	14-Nov-06	Soil
434-SB-04-3042	23164006	14-Nov-06	Soil
434-SB-05-3042	23164009	14-Nov-06	Soil

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by Field ID

FINAL REPORT

Field ID: 12-SB-03-1830

DLS ID: 23164012

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	<55.0 mg/kg- dwb	55.0	EPA 9038	0116	30-Nov-06

Field ID: 12-SB-03A-1830

DLS ID: 23164013

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	66.0 mg/kg- dwb	55.0	EPA 9038	0116	30-Nov-06

Field ID: 434-SB-03-3042

DLS ID: 23164003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	150 mg/kg- dwb	55.0	EPA 9038	0116	30-Nov-06

Field ID: 434-SB-04-3042

DLS ID: 23164006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	70.0 mg/kg- dwb	56.0	EPA 9038	0116	30-Nov-06

Field ID: 434-SB-05-3042

DLS ID: 23164009

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	59.0 mg/kg- dwb	56.0	EPA 9038	0116	30-Nov-06

TERMINOLOGY/ABBREVIATIONS

Term	Description
NLLAP	National Lead Laboratory Accreditaion Program
COLA	Commission on Office Laboratory Accreditation
A2LA	American Association for Laboratory Accreditation
AIHA	American Industrial Hygiene Association

**U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#951DO#1**

SDG: 0611458

DECEMBER 7, 2006

Submitted by:

TriMatrix Laboratories, Inc.

SDG CASE NARRATIVE
Level 5 Analysis

**U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: CAMP PEDRICKTOWN
PROJECT: PROGRAM 38--38
PO#951DO#1
DECEMBER 7, 2006**

This case narrative is applicable to all samples received November 22, 2006. TriMatrix laboratory sample numbers were assigned as follows:

Work Order (SDG) Number: 0611458

Laboratory Sample Number(s)	USACHPPM Sample Identification:		Matrix
0611458-01	23167001	434-ER1	Water, Rinse
0611458-02	23167002	12-ER2	Water, Rinse

Sample Receipt

On November 22, 2006 at 08:45 am a Sample Delivery Group (SDG) containing a total of two (2) water samples was received via Federal Express directly from the USACHPPM laboratory, Aberdeen Proving Grounds, Maryland. All samples and containers were received intact and in good condition. Shipping documents included a Pick-up/Work/Delivery Order and a Federal Express air bills. The receipt temperature of the samples was determined by recording the temperature reading of three sample containers, using an infrared thermometer. The average of those containers for cooler was 6°C.

QA/QC / Technical Issues or Problems

QA/QC or technical problems encountered during the analysis of this SDG are summarized on the following page(s).

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.

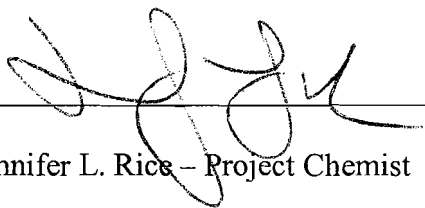
In addition to the location of information, the following is a list of QA/QC types utilized by TriMatrix Laboratories, and our in-house type designations.

Method QC:

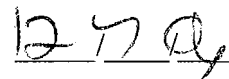
MPB Method Preparation Blank
BLK Daily Instrument Blank
LFB Laboratory Fortified Blank
LCS Laboratory Control Sample
IEC ICP Interference Check Sample
CRL Contract Required Detection Limit Standard
ICB Initial Calibration Blank
ICV Initial Calibration Verification
CCB Continuing Calibration Blank
CCV Continuing Calibration Verification

Matrix QC:

SPK Sample Matrix Spike
MSD Sample Matrix Spike Duplicate
DUP Sample Matrix Duplicate
SUR Sample Matrix Surrogate
PDS Post Digestion Spike



Jennifer L. Rice – Project Chemist



BTA

TABLE OF CONTENTS LEVEL 5 DELIVERABLES

**U.S. ARMY CENTER FOR HEALTH PROMOTION
 AND PREVENTATIVE MEDICINE
 DIRECTORATE OF LABORATORY SCIENCES
 INSTALLATION: CAMP PEDRICKTOWN
 PROJECT: PROGRAM 38--38
 PO#951DO#1
 DECEMBER 7, 2006**

<u>Section I.D.</u>	<u>Description</u>	<u>Pages:</u>
A	Field/Internal COC Records, Air Bill	001-009
B	Inorganic Data Sulfate	010-028 011-028

ANALYTICAL REPORT

Client:	U.S. ARMY CHPPM	Work Order:	0611458
Project:	Installation: Camp Pedricktown Program 38--:	Description:	Laboratory Services
Client Sample ID:	23167001 434-ER1	Sampled:	11/14/06 14:30
Lab Sample ID:	0611458-01	Sampled By:	US Army
Matrix:	water	Received:	11/22/06 08:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Sulfate	<1.0	1.0	mg/L	1	USEPA-375.4	12/05/06	JLB	0614221

ANALYTICAL REPORT

Client:	U.S. ARMY CHPPM	Work Order:	0611458
Project:	Installation: Camp Pedricktown Program 38--:	Description:	Laboratory Services
Client Sample ID:	23167002 12-ER2	Sampled:	11/14/06 16:30
Lab Sample ID:	0611458-02	Sampled By:	US Army
Matrix:	water	Received:	11/22/06 08:45

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Sulfate	<1.0	1.0	mg/L	1	USEPA-375.4	12/05/06	JLB	0614221

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: **Sulfate/USEPA-375.4**

QC Batch: 0614221 (General Inorganic Prep)

Analyzed: 12/05/2006 By: JLB

Method Blank			<1.0	mg/L				1.0
Laboratory Control Sample		8.34	8.33	mg/L	100	88-116		1.0

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.



U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

DIRECTORATE OF LABORATORY SCIENCES (DLS)

5158 BLACKHAWK ROAD

ABERDEEN PROVING GROUND, MARYLAND 21010-5403

(410) 436-2208

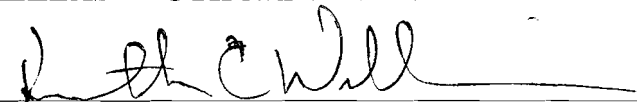

FINAL ANALYTICAL REPORT

**CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305**

**PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32209 DLS WORK ORDER #: 23167
REPORT SERIAL NUMBER: 319514**

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature:  **Date:** 14 Dec 06
 **Ronald J. Swatski, Chief, Radiologic, Classic, and Clinical Chemistry Division**

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

Provided are the results of two (2) water samples submitted from Camp Pedricktown for classic inorganic analyses. The Classic Chemistry Team (CLS) does not currently perform the requested analyses in house, therefore the samples were sent to TriMatrix Laboratories, Inc. (TML). The samples were collected on 14 Nov 2006. The sample containers were received in DLS intact and in good condition on 15 Nov 2006. The temperature of the sample upon arrival at DLS was 8 degrees Centigrade (Celsius), which is outside the recommended acceptable temperature range of 2 to 6 degrees Centigrade. The sample containers were sent to TML, where they were received intact and in good condition on 22 Nov 2006. The receipt temperature of the samples upon arrival at TML was determined by recording 3 random temperature readings of the sample(s) of varying container types, using an infrared thermometer. The average temperature for those containers was 6 degrees Centigrade, which is within the recommended acceptable temperature range of 2 to 6 degrees Centigrade.

SAMPLE PREPARATION:

N/A

SAMPLE ANALYSIS:

- 1. These analyses were performed, under contract, by TriMatrix Laboratories, Inc. (TML).
- 2. The samples were analyzed on 5 Dec 2006.
- 3. The method used to analyze for Sulfate is EPA 375.4.
- 4. The holding times were met.

QUALITY CONTROL:

The quality control data were within acceptable limits.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	1
Quality Control Data Report	0
Raw Data	0
Terminology/Abbreviations	1

Report Point-of-Contact: MJG

Reviewer: AAH



List of all tests used:

DLS Procedure	Count
EPA 375.4	2

Number of samples included in the report, by matrix:

Matrix	Quantity
Water, Rinse	2

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23167, Report Serial No. 319514, 12/14/2006

Analyst(s):

Analyst Code	Analyst Name	Signature
0116	TML	

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
12-ER2	23167002	14-Nov-06	Water, Rinse
434-ER1	23167001	14-Nov-06	Water, Rinse

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by Field ID

FINAL REPORT

Field ID: 12-ER2

DLS ID: 23167002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	<1.00 mg/L	1.00	EPA 375.4	0116	05-Dec-06

Field ID: 434-ER1

DLS ID: 23167001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	<1.00 mg/L	1.00	EPA 375.4	0116	05-Dec-06

TERMINOLOGY/ABBREVIATIONS

Term	Description
MDA	The minimum detectable activity.
COLA	Commission on Office Laboratory Accreditation
ACCURACY	A measure of how close a measured value is to a known true value. Accuracy is assessed by means of reference samples and percent recoveries of spiked samples.
AIHA	American Industrial Hygiene Association



EXP

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

DIRECTORATE OF LABORATORY SCIENCES (DLS)

5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403
(410) 436-2208

DEC 13 2006

FINAL ANALYTICAL REPORT

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILES: 32197, 32204, 32209
DLS WORK ORDERS: 23159, 23164, 23167
REPORT SERIAL NUMBER: 319329

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:
Signature: J. Howard Vinopal Date: 13 Dec 2006
J. Howard Vinopal, Ph.D, Chief, Chromatographic Analysis Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23159, 23164, 23167, Report Serial No. 319329, 12/13/2006

CASE NARRATIVE

SUBJECT: Analysis of Soil Samples and a Rinse Water Sample from Camp Pedricktown for Explosives and Related Compounds.

DATE: 13 December 2006

Provided are the results from the analysis of sixteen soil samples and one water rinse sample from Camp Pedricktown for explosives and related compounds. The samples were collected on 13 and 14 November 2006. The samples were received in DLS on 14 and 15 November 2006. The samples in workorder# 23159 were received in good condition. The samples in workorder# 23164 and 23167 were received at 8 degrees C which is slightly outside the acceptable temperature range of 2-6 degrees C.

Sample Preparation:

The soil samples were extracted on 20 November 2006 in accordance with CAD 55.4. The rinse water sample was extracted on 20 November 2006 in accordance with CAD 13.3. The samples were extracted within the required holding times. The soil samples were dried at room temperature to constant weight, ground with a mortar and pestle, and sieved before extraction. A 2.0 gram portion of each sample was used for extraction. 5 mL of isoamyl acetate was used to extract each sample. A 100 mL water sub-sample of the rinse sample was extracted with 1.0 mL of isoamyl acetate.

Sample Analysis:

The samples were analyzed on several analytical runs from 21-29 November 2006 in accordance with CAD 55.4 and CAD 13.3. The samples were analyzed within the required analytical holding times. A DB-1 column was used as the primary column. Where applicable, the DB-210 column was used for confirmation. All analyte results are below their respective reporting limits. See the analytical data report for results.

Quality Control:

One laboratory control sample (LCS), two matrix spikes (MS), and two matrix spike duplicates (MSD) were analyzed with the soil samples. All percent recoveries were within the current acceptable limits for CAD 55.4. One LCS was analyzed with the rinse water sample. All percent recoveries were within the current acceptable limits for CAD 13.3. See the Laboratory Control Sample Report for specific information.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	13
Quality Control Data Report	8
Raw Data	
Terminology/Abbreviations	1

Report Point-of-Contact: Michael Hable

Reviewer: Curtis Oliver *Curtis Oliver, Stephen T. ...*

List of all tests used:

DLS Procedure	Count
CAD 13	15
CAD SOP 55	240

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23159, 23164, 23167, Report Serial No. 319329, 12/13/2006

Number of samples included in the report, by matrix:

Matrix	Quantity
Soil	16
Water, Rinse	1

Analyst(s):

Analyst Code	Analyst Name	Signature
0032	HABLEMA	<i>Michael A. Hable</i>

SAMPLE SUMMARY

Sorted by DLS ID

Field ID	DLS ID	Date Collected	Matrix
434-SB-01-0618	23159001	13-Nov-06	Soil
434-SB-01-1830	23159002	13-Nov-06	Soil
434-SB-01-3042	23159003	13-Nov-06	Soil
434-SB-02-0618	23159004	13-Nov-06	Soil
434-SB-02-3042	23159006	13-Nov-06	Soil
434-SB-02A-1830	23159007	13-Nov-06	Soil
434-SB-02-1830	23159008	13-Nov-06	Soil
434-SB-03-0618	23164001	14-Nov-06	Soil
434-SB-03-1830	23164002	14-Nov-06	Soil
434-SB-03-3042	23164003	14-Nov-06	Soil
434-SB-04-0618	23164004	14-Nov-06	Soil
434-SB-04-1830	23164005	14-Nov-06	Soil
434-SB-04-3042	23164006	14-Nov-06	Soil
434-SB-05-0618	23164007	14-Nov-06	Soil
434-SB-05-1830	23164008	14-Nov-06	Soil
434-SB-05-3042	23164009	14-Nov-06	Soil
434-ER1	23167001	14-Nov-06	Water, Rinse

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by DLS ID

FINAL REPORT

Field ID: 434-SB-01-0618

DLS ID: 23159001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	22-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06

Field ID: 434-SB-01-1830

DLS ID: 23159002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06

FINAL REPORT

Field ID: 434-SB-01-1830

DLS ID: 23159002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	22-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06

Field ID: 434-SB-01-3042

DLS ID: 23159003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-01-3042

DLS ID: 23159003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-02-0618

DLS ID: 23159004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-02-3042

DLS ID: 23159006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-02-3042

DLS ID: 23159006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-02A-1830

DLS ID: 23159007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

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Field ID: 434-SB-02A-1830

DLS ID: 23159007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-02-1830

DLS ID: 23159008

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-03-0618

DLS ID: 23164001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	22-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	22-Nov-06

Field ID: 434-SB-03-1830

DLS ID: 23164002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-03-1830

DLS ID: 23164002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-03-3042

DLS ID: 23164003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-03-3042

DLS ID: 23164003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-04-0618

DLS ID: 23164004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-04-1830

DLS ID: 23164005

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-04-1830

DLS ID: 23164005

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-04-3042

DLS ID: 23164006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-04-3042

DLS ID: 23164006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-05-0618

DLS ID: 23164007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-05-1830

DLS ID: 23164008

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-SB-05-3042

DLS ID: 23164009

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
1,3-Dinitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4,6-Trinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,4-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2,6-Dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Amino-4,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
2-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

FINAL REPORT

Field ID: 434-SB-05-3042

DLS ID: 23164009

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
3-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Amino-2,6-dinitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
4-Nitrotoluene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
HMX	<0.10 ug/g	0.10	CAD SOP 55	0032	23-Nov-06
Nitrobenzene	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Nitroglycerin	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
RDX	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06
Tetryl	<0.050 ug/g	0.050	CAD SOP 55	0032	23-Nov-06

Field ID: 434-ER1

DLS ID: 23167001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.030 ug/L	0.030	CAD 13	0032	21-Nov-06
1,3-Dinitrobenzene	<0.090 ug/L	0.090	CAD 13	0032	21-Nov-06
2,4,6-Trinitrotoluene	<0.030 ug/L	0.030	CAD 13	0032	21-Nov-06
2,4-Dinitrotoluene	<0.020 ug/L	0.020	CAD 13	0032	21-Nov-06
2,6-Dinitrotoluene	<0.010 ug/L	0.010	CAD 13	0032	21-Nov-06
2-Amino-4,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0032	21-Nov-06
2-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0032	21-Nov-06
3-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0032	21-Nov-06
4-Amino-2,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0032	21-Nov-06
4-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0032	21-Nov-06
HMX	<3.0 ug/L	3.0	CAD 13	0032	21-Nov-06
Nitrobenzene	<0.030 ug/L	0.030	CAD 13	0032	21-Nov-06
Nitroglycerin	<0.090 ug/L	0.090	CAD 13	0032	21-Nov-06
RDX	<0.10 ug/L	0.10	CAD 13	0032	21-Nov-06

FINAL REPORT

Field ID: 434-ER1

DLS ID: 23167001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Tetryl	<0.50 ug/L	0.50	CAD 13	0032	21-Nov-06

Report ID: HMA0189v1
Report Seq: 319322



Date Generated: 12/13/2006 10:
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US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)

Quality Control Report

Workorders		Locations	Profiles	Project Officers
23159	Camp Pedricktown	Camp Pedricktown	0606	Mr. David Jones
23164	Camp Pedricktown			
23167	Camp Pedricktown			



US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Laboratory Control Sample Report

Analyte	Date	Sample Number	Mx	Observed Units	Theoretical Units	% Rec	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
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Workorder No: 23159

Officer: Mr. David Jones

Installation: Camp Pedricktown

Subjono: 0606

1,3,5-Trinitrobenzene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	58	107
1,3-Dinitrobenzene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	75	110
2,4,6-Trinitroloene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	69	113
2,4-Dinitroloene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	76	109
2,6-Dinitroloene	11/22/2006	07LCS1-28	SO	2.67	ug/g	2.5	ug/g	106.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	79	113
2-Amino-4,6-dinitroloene	11/22/2006	07LCS1-28	SO	2.69	ug/g	2.5	ug/g	107.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	78	118
2-Nitroloene	11/22/2006	07LCS1-28	SO	2.46	ug/g	2.5	ug/g	98.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	76	118
3-Nitroloene	11/21/2006	07LCS1-28	SO	2.58	ug/g	2.5	ug/g	103.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	75	119
Result from different run														
4-Amino-2,6-dinitroloene	11/22/2006	07LCS1-28	SO	2.91	ug/g	2.5	ug/g	116.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	71	119
4-Nitroloene	11/22/2006	07LCS1-28	SO	2.44	ug/g	2.5	ug/g	97.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	73	118
HMX	11/22/2006	07LCS1-28	SO	2.66	ug/g	2.5	ug/g	106.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	37	163
Nitrobenzene	11/22/2006	07LCS1-28	SO	2.44	ug/g	2.5	ug/g	97.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	76	111
Nitroglycerin	11/21/2006	07LCS1-28	SO	2.31	ug/g	2.5	ug/g	92.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	53	144
Result from different run														
RDX	11/22/2006	07LCS1-28	SO	2.55	ug/g	2.5	ug/g	102.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	66	114
Tetryl	11/22/2006	07LCS1-28	SO	2.6	ug/g	2.5	ug/g	104.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	67	133

Workorder No: 23164

Officer: Mr. David Jones

Installation: Camp Pedricktown

Subjono: 0606

1,3,5-Trinitrobenzene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	58	107
1,3-Dinitrobenzene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	75	110
2,4,6-Trinitroloene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	69	113
2,4-Dinitroloene	11/22/2006	07LCS1-28	SO	2.59	ug/g	2.5	ug/g	103.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	76	109



US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Laboratory Control Sample Report

Analyte	Date	Sample Number	Mx	Observed Units	Theoretical Units	% Rec	Analyst	Method	Reviewer	Outside Limits	
										LCL	UCL
2,6-Dinitrotoluene	11/22/2006	07LCS1-28	SO	2.67 ug/g	2.5 ug/g	106.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	79 113
2-Amino-4,6-dinitrotoluene	11/22/2006	07LCS1-28	SO	2.69 ug/g	2.5 ug/g	107.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	78 118
2-Nitrotoluene	11/22/2006	07LCS1-28	SO	2.46 ug/g	2.5 ug/g	98.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	76 118
3-Nitrotoluene	11/21/2006	07LCS1-28	SO	2.58 ug/g	2.5 ug/g	103.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	75 119
Results from different run											
4-Amino-2,6-dinitrotoluene	11/22/2006	07LCS1-28	SO	2.91 ug/g	2.5 ug/g	116.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	71 119
4-Nitrotoluene	11/22/2006	07LCS1-28	SO	2.44 ug/g	2.5 ug/g	97.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	73 118
HMX	11/22/2006	07LCS1-28	SO	2.66 ug/g	2.5 ug/g	106.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	37 163
Nitrobenzene	11/22/2006	07LCS1-28	SO	2.44 ug/g	2.5 ug/g	97.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	76 111
Nitroglycerin	11/21/2006	07LCS1-28	SO	2.31 ug/g	2.5 ug/g	92.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	53 144
Results from different run											
RDX	11/22/2006	07LCS1-28	SO	2.55 ug/g	2.5 ug/g	102.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	66 114
Tetryl	11/22/2006	07LCS1-28	SO	2.6 ug/g	2.5 ug/g	104.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	67 133

Workorder No: 23167 Officer: Mr. David Jones

Installation: Camp Pedricktown Subjono: 0606

1,3,5-Trinitrobenzene	11/21/2006	07LCS1-26	RW	0.25 ug/L	0.24 ug/L	104.17	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	80 119
1,3-Dinitrobenzene	11/21/2006	07LCS1-26	RW	0.7 ug/L	0.72 ug/L	97.22	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	88 115
2,4,6-Trinitrotoluene	11/21/2006	07LCS1-26	RW	0.24 ug/L	0.24 ug/L	100.00	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	75 119
2,4-Dinitrotoluene	11/21/2006	07LCS1-26	RW	0.16 ug/L	0.16 ug/L	100.00	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	80 123
2,6-Dinitrotoluene	11/21/2006	07LCS1-26	RW	0.08 ug/L	0.08 ug/L	100.00	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	76 132
2-Amino-4,6-dinitrotoluene	11/21/2006	07LCS1-26	RW	1.15 ug/L	1.2 ug/L	95.83	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	82 115
2-Nitrotoluene	11/21/2006	07LCS1-26	RW	0.72 ug/L	0.72 ug/L	100.00	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	84 110
3,4-Dinitrotoluene	11/21/2006	07LCS1-26	RW	0.12 ug/L	0.12 ug/L	100.00	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	80 120
3-Nitrotoluene	11/21/2006	07LCS1-26	RW	0.73 ug/L	0.72 ug/L	101.39	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	79 118



US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Laboratory Control Sample Report

Analyte	Date	Sample Number	Mx	Observed Units	Theoretical Units	% Rec	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
4-Amino-2,6-dinitrotoluene	11/21/2006	07LCS1-26	RW	1.21 ug/L	1.2 ug/L	100.83	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	76	117
4-Nitrotoluene	11/21/2006	07LCS1-26	RW	0.75 ug/L	0.72 ug/L	104.17	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	80	116
HMX	11/21/2006	07LCS1-26	RW	17.6 ug/L	19.2 ug/L	91.67	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	73	120
Nitrobenzene	11/21/2006	07LCS1-26	RW	0.23 ug/L	0.24 ug/L	95.83	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	81	114
Nitroglycerin	11/21/2006	07LCS1-26	RW	0.65 ug/L	0.72 ug/L	90.28	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	65	126
RDX	11/21/2006	07LCS1-26	RW	0.92 ug/L	0.96 ug/L	95.83	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	79	109
Tetryl	11/21/2006	07LCS1-26	RW	1.47 ug/L	1.2 ug/L	122.50	HABLEMA	CAD 13	OLIVERCG	<input type="checkbox"/>	61	131



US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
Matrix Spike Report

Analyte	Date	Sample Number	Mx	Initial Result	MS Result	Theoretical Amount	Units	% Rec	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Workorder No: 23159														
Installation: Camp Pedricktown														
Officer: Mr. David Jones														
Subjono: 0606														
1,3,5-Trinitrobenzene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.34 ug/g	2.5 ug/g	ug/g	93.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
1,3-Dinitrobenzene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.34 ug/g	2.5 ug/g	ug/g	93.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4,6-Trinitrotoluene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.4 ug/g	2.5 ug/g	ug/g	96.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4-Dinitrotoluene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.39 ug/g	2.5 ug/g	ug/g	95.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,6-Dinitrotoluene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.45 ug/g	2.5 ug/g	ug/g	98.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2-Amino-4,6-dinitrotoluene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.52 ug/g	2.5 ug/g	ug/g	100.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2-Nitrotoluene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.39 ug/g	2.5 ug/g	ug/g	95.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
3-Nitrotoluene	11/21/2006	23159001 MS	SO	< 0.05 ug/g	2.35 ug/g	2.5 ug/g	ug/g	94.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Result from different run														
4-Amino-2,6-dinitrotoluene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.5 ug/g	2.5 ug/g	ug/g	100.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
4-Nitrotoluene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.43 ug/g	2.5 ug/g	ug/g	97.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
HMX	11/22/2006	23159001 MS	SO	< 0.1 ug/g	2.79 ug/g	2.5 ug/g	ug/g	111.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitrobenzene	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.25 ug/g	2.5 ug/g	ug/g	90.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitroglycerin	11/21/2006	23159001 MS	SO	< 0.05 ug/g	1.96 ug/g	2.5 ug/g	ug/g	78.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Result from different run														
RDX	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.25 ug/g	2.5 ug/g	ug/g	90.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Tetryl	11/22/2006	23159001 MS	SO	< 0.05 ug/g	2.4 ug/g	2.5 ug/g	ug/g	96.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130

Workorder No: 23164														
Installation: Camp Pedricktown														
Officer: Mr. David Jones														
Subjono: 0606														
1,3,5-Trinitrobenzene	11/22/2006	23164001 MS	SO	< 0.05 ug/g	2.23 ug/g	2.5 ug/g	ug/g	89.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
1,3-Dinitrobenzene	11/22/2006	23164001 MS	SO	< 0.05 ug/g	2.34 ug/g	2.5 ug/g	ug/g	93.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4,6-Trinitrotoluene	11/22/2006	23164001 MS	SO	< 0.05 ug/g	2.4 ug/g	2.5 ug/g	ug/g	96.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4-Dinitrotoluene	11/22/2006	23164001 MS	SO	< 0.05 ug/g	2.38 ug/g	2.5 ug/g	ug/g	95.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,6-Dinitrotoluene	11/22/2006	23164001 MS	SO	< 0.05 ug/g	2.44 ug/g	2.5 ug/g	ug/g	97.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130



US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Matrix Spike Report

Analyte	Date	Sample Number	Mx	Initial Result	Units	MS Result	Units	Theoretical Amount	Units	% Rec	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
2-Amino-4,6-dinitrotoluene	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.47	ug/g	2.5	ug/g	98.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2-Nitrotoluene	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.37	ug/g	2.5	ug/g	94.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
3-Nitrotoluene	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.39	ug/g	2.5	ug/g	95.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Results from different run																
4-Amino-2,6-dinitrotoluene	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.48	ug/g	2.5	ug/g	99.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
4-Nitrotoluene	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.34	ug/g	2.5	ug/g	93.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
HMX	11/22/2006	23164001 MS	SO <	0.1	ug/g	2.99	ug/g	2.5	ug/g	119.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitrobenzene	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.22	ug/g	2.5	ug/g	88.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitroglycerin	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.27	ug/g	2.5	ug/g	90.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Results from different run																
RDX	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.14	ug/g	2.5	ug/g	85.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Tetryl	11/22/2006	23164001 MS	SO <	0.05	ug/g	2.23	ug/g	2.5	ug/g	89.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130



US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Matrix Spike Duplicates Report

Analyte	Date	Sample Number	Mx	MS Result	Units	MSD Result	Units	% RPD	% Rec	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Workorder No: 23159															
Installation: Camp Pedricktown															
Officer: Mr. David Jones															
Subjono: 0606															
1,3,5-Trinitrobenzene	11/22/2006	23159001 MSD	SO	2.34	ug/g	2.37	ug/g	1.27	94.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
1,3-Dinitrobenzene	11/22/2006	23159001 MSD	SO	2.34	ug/g	2.35	ug/g	0.43	94.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4,6-Trinitrotoluene	11/22/2006	23159001 MSD	SO	2.4	ug/g	2.37	ug/g	1.26	94.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4-Dinitrotoluene	11/22/2006	23159001 MSD	SO	2.39	ug/g	2.39	ug/g	0.00	95.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,6-Dinitrotoluene	11/22/2006	23159001 MSD	SO	2.45	ug/g	2.45	ug/g	0.00	98.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2-Amino-4,6-dinitrotoluene	11/22/2006	23159001 MSD	SO	2.52	ug/g	2.49	ug/g	1.20	99.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2-Nitrotoluene	11/22/2006	23159001 MSD	SO	2.39	ug/g	2.36	ug/g	1.26	94.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
3-Nitrotoluene	11/21/2006	23159001 MSD	SO	2.35	ug/g	2.35	ug/g	0.00	94.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Result from different run															
4-Amino-2,6-dinitrotoluene	11/22/2006	23159001 MSD	SO	2.5	ug/g	2.48	ug/g	0.80	99.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
4-Nitrotoluene	11/22/2006	23159001 MSD	SO	2.43	ug/g	2.42	ug/g	0.41	96.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
HMX	11/22/2006	23159001 MSD	SO	2.79	ug/g	2.87	ug/g	2.83	114.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitrobenzene	11/22/2006	23159001 MSD	SO	2.25	ug/g	2.21	ug/g	1.79	88.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitroglycerin	11/21/2006	23159001 MSD	SO	1.96	ug/g	1.92	ug/g	2.06	76.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Result from different run															
RDX	11/22/2006	23159001 MSD	SO	2.25	ug/g	2.24	ug/g	0.45	89.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Tetryl	11/22/2006	23159001 MSD	SO	2.4	ug/g	2.32	ug/g	3.39	92.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130

Workorder No: 23164															
Installation: Camp Pedricktown															
Officer: Mr. David Jones															
Subjono: 0606															
1,3,5-Trinitrobenzene	11/22/2006	23164001 MSD	SO	2.23	ug/g	2.47	ug/g	10.21	98.80	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
1,3-Dinitrobenzene	11/22/2006	23164001 MSD	SO	2.34	ug/g	2.36	ug/g	0.85	94.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4,6-Trinitrotoluene	11/22/2006	23164001 MSD	SO	2.4	ug/g	2.45	ug/g	2.06	98.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,4-Dinitrotoluene	11/22/2006	23164001 MSD	SO	2.38	ug/g	2.41	ug/g	1.25	96.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2,6-Dinitrotoluene	11/22/2006	23164001 MSD	SO	2.44	ug/g	2.44	ug/g	0.00	97.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
2-Amino-4,6-dinitrotoluene	11/22/2006	23164001 MSD	SO	2.47	ug/g	2.53	ug/g	2.40	101.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130



US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)

Matrix Spike Duplicates Report

Analyte	Date	Sample Number	Mx	MS		MSD		Units	% RPD	% Rec	Analyst	Method	Reviewer	Outside Limits	
				Result	Units	Result	Units							LCL	UCL
2-Nitrotoluene	11/22/2006	23164001 MSD	SO	2.37	ug/g	2.34	ug/g	1.27	93.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
3-Nitrotoluene	11/22/2006	23164001 MSD	SO	2.39	ug/g	2.36	ug/g	1.26	94.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Results from different run															
4-Amino-2,6-dinitrotoluene	11/22/2006	23164001 MSD	SO	2.48	ug/g	2.5	ug/g	0.80	100.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
4-Nitrotoluene	11/22/2006	23164001 MSD	SO	2.34	ug/g	2.35	ug/g	0.43	94.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
HMX	11/22/2006	23164001 MSD	SO	2.99	ug/g	3.14	ug/g	4.89	125.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitrobenzene	11/22/2006	23164001 MSD	SO	2.22	ug/g	2.23	ug/g	0.45	89.20	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Nitroglycerin	11/22/2006	23164001 MSD	SO	2.27	ug/g	2.24	ug/g	1.33	89.60	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
Result from different run															
RDX	11/22/2006	23164001 MSD	SO	2.14	ug/g	2.3	ug/g	7.21	92.00	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130
TeBz	11/22/2006	23164001 MSD	SO	2.23	ug/g	2.41	ug/g	7.76	96.40	HABLEMA	CAD SOP 55	OLIVERCG	<input type="checkbox"/>	70	130

TERMINOLOGY/ABBREVIATIONS

Term	Description
MDA	The minimum detectable activity.
ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CFR	Code of Federal Regulations
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
ACCURACY	A measure of how close a measured value is to a known true value. Accuracy is assessed by means of reference samples and percent recoveries of spiked samples.
ANALYSIS OF VARIANCE	A technique of statistical analysis by which the components of variation for different elements of the data set are separated and estimated.
BLANK	An artificial sample designed to monitor the introduction of artifacts or contamination into the analytical process. The blank is taken through the appropriate steps in the analytical process. Examples are: trip, field, equipment, and reagent blanks.
AIHA	American Industrial Hygiene Association



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Chain of Custody (COC)

This Chain of Custody is an Addendum to the Original COC submitted on 11-14-06 to SML. This is SML's internal Chain of Custody.

<p>Profile: 32197 - 0606</p> <p>Workorder #: 23159</p> <p>Queue: EXP</p> <p>Location: Camp Pedricktown</p> <p>Jono: 77HR7E</p> <p>Subjono: 0606</p> <p>Turn Code: W020 20 Work days from receipt</p>	<p>Description: Camp Pedricktown~32197</p> <p>Workorder ID: 0606319</p> <p>Customer: Program 38</p> <p>Project Number: 38</p> <p>POC: Mr. David Jones</p> <p>Notes: MO acode for soil matrix not available, will be added to workorder as soon as it is available. Aberkshire 11-15-06</p>
---	--

Total Samples: 7 **Total Containers:** 7

HSN	Container ID	Customer Sample ID	Sample Type	Matrix	Temp (C)	Date/Time Received	Date/Time Collected	Sample Due Date
23159001	✓	434-SB-01-0618	SAMPLE	SO	20C	14-Nov-2006 09:10 AM	13-Nov-2006 09:00 AM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159002	✓	434-SB-01-1830	SAMPLE	SO	20C	14-Nov-2006 09:10 AM	13-Nov-2006 09:15 AM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159003	✓	434-SB-01-3042	SAMPLE	SO	20C	14-Nov-2006 09:10 AM	13-Nov-2006 09:15 AM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159004	✓	434-SB-02-0618	SAMPLE	SO	20C	14-Nov-2006 09:10 AM	13-Nov-2006 01:30 PM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159006	✓	434-SB-02-3042	SAMPLE	SO	20C	14-Nov-2006 09:10 AM	13-Nov-2006 02:00 PM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								



Profile: 32197 - 0606	Description: Camp Pedricktown~32197
Workorder #: 23159	Workorder ID: 0606319
Queue: EXP	Customer: Program 38

23159007	23159007-4	434-SB-02A-1830	<input checked="" type="checkbox"/>	SAMPLE	SO	Soil	AC	14-Nov-2006 09:10 AM	13-Nov-2006 02:00 PM	13-Dec-2006
ACodes: EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep										
23159008	23159008-4	434-SB-02-1830	<input checked="" type="checkbox"/>	SAMPLE	SO	Soil	20C	14-Nov-2006 09:10 AM	13-Nov-2006 02:00 PM	13-Dec-2006
ACodes: EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep										

Total Samples: 7 Total Containers: 7

Samples Received By: <i>Miranda Nadeau</i>	Date Received: <u>11-15-06</u>
Document Reviewed By: Alyson Berkshire	Date Reviewed: <u>11-15-06</u>
Document Quality Review By: <i>Alyson Brown</i>	Date Reviewed: <u>11-15-06</u>
Samples Approved For Distribution: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date Approved: <u>11-15-06</u>
Initials: <i>MB</i>	
Initials: <i>AB</i>	

C-172

Original of Custody

Hable, Michael A Mr USACHPPM

From: Berkshire, Alyson M Ms ORISE
Sent: Wednesday, November 15, 2006 3:18 PM
To: Hable, Michael A Mr USACHPPM
Subject: Temp

Mike,

The temp on Camp Pedricktown WO# 23159 was 2 C for all samples. Sorry about that I am not sure why the LIMS didn't capture that.

*Thank You,
Alyson M. Berkshire
Professional Associate
Sample Management Laboratory
Phone # 410-436-8288
Fax # 410-436-4108
Alyson.Berkshire@apg.amedd.army.mil*



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Directorate of Laboratory Sciences
Aberdeen Proving Ground, MD 21010-5403
<http://chppm-www.apgea.army.mil/dls>



Chain Of Custody (COC)

This Chain of Custody is an Addendum to the Original COC submitted on 1-15-06 to SML. This is SML's internal Chain of Custody.

Profile: 32204 - 0606	Description: Camp Pedricktown~32204
Workorder #: 23164	Workorder ID: 0606320
Queue: EXP	Customer: Program 38
Location: Camp Pedricktown	POC: Mr. David Jones
Jono: 77HR7E	Project Number: 38
Subjono: 0606	Notes: Mo will be added once the matrix is added to the acode. Aberkshire 11-16-06
Turn Code: W020 20 Work days from receipt	

Total Samples: 9 **Total Containers:** 9

HSN	Container ID	Customer	Sample ID	Sample Type	Matrix	Temp (C)	Date/Time Received	Date/Time Collected	Sample Due Date
23164001	23164001-3	✓	434-SB-03-0618	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 12:50 PM	14-Dec-2006
ACodes:									
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep									
23164002	23164002-3	✓	434-SB-03-1830	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 12:50 PM	14-Dec-2006
ACodes:									
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep									
23164003	23164003-4	✓	434-SB-03-3042	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 12:50 PM	14-Dec-2006
ACodes:									
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep									
23164004	23164004-3	✓	434-SB-04-0618	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 01:30 PM	14-Dec-2006
ACodes:									
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep									
23164005	23164005-3	✓	434-SB-04-1830	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 01:30 PM	14-Dec-2006
ACodes:									
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep									



Profile: 32204 - 0606	Description: Camp Pedricktown-32204
Workorder #: 23164	Workorder ID: 0606320
Queue: EXP	Customer: Program 38

23164006	✓	23164006-4	434-SB-04-3042	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 01:30 PM	14-Dec-2006
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ACodes:

EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep

23164007	✓	23164007-3	434-SB-05-0618	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:00 PM	14-Dec-2006
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ACodes:

EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep

23164008	✓	23164008-3	434-SB-05-1830	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:00 PM	14-Dec-2006
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ACodes:

EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep

23164009	✓	23164009-4	434-SB-05-3042	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:00 PM	14-Dec-2006
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ACodes:

EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep

Total Samples: 9	Total Containers: 9
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Samples Received By: <i>Michael J. Kelly</i>	Date Received: 11-16-06
Document Reviewed By: Alyson Berkshire	Date Reviewed: 11-16-06
Document Quality Review By: <i>Henry Taylor</i>	Date Reviewed: <i>[Signature]</i>
Samples Approved For Distribution: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date Approved: <i>[Signature]</i>
Initials: <i>AKB</i>	Initials: <i>HT</i>



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Chain Of Custody (COC)

This Chain of Custody is an Addendum to the Original COC submitted on 11-14-06 to SML. This is SML's internal Chain of Custody.

<p>Profile: 32197 - 0606</p> <p>Workorder #: 23159</p> <p>Queue: EXP</p> <p>Location: Camp Pedricktown</p> <p>Jono: 77HR7E</p> <p>Subjono: 0606</p> <p>Turn Code: W020 20 Work days from receipt</p>	<p>Description: Camp Pedricktown~32197</p> <p>Workorder ID: 0606319</p> <p>Customer: Program 38 POC: Mr. David Jones</p> <p>Project Number: 38</p> <p>Notes: MO acode for soil matrix not available, will be added to workorder as soon as it is available. -Aberkshire 11-15-06</p>
---	---

Total Samples: 7 **Total Containers:** 7

HSN	Container ID	Customer Sample ID	Sample Type	Matrix	Temp (C)	Date/Time Received	Date/Time Collected	Sample Due Date
23159001	✓ 23159001-3	434-SB-01-0618	SAMPLE	SO	20°C	14-Nov-2006 09:10 AM	13-Nov-2006 09:00 AM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159002	✓ 23159002-3	434-SB-01-1830	SAMPLE	SO	20°C	14-Nov-2006 09:10 AM	13-Nov-2006 09:15 AM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159003	✓ 23159003-4	434-SB-01-3042	SAMPLE	SO	20°C	14-Nov-2006 09:10 AM	13-Nov-2006 09:15 AM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159004	✓ 23159004-3	434-SB-02-0618	SAMPLE	SO	20°C	14-Nov-2006 09:10 AM	13-Nov-2006 01:30 PM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								
23159006	✓ 23159006-4	434-SB-02-3042	SAMPLE	SO	20°C	14-Nov-2006 09:10 AM	13-Nov-2006 02:00 PM	13-Dec-2006
ACodes:								
EXP1757 : Explosives in Soil EXP1757 : CAD 55 Prep								



Profile: 32197 - 0606	Description: Camp Pedricktown--32197
Workorder #: 23159	Workorder ID: 0606319
Queue: EXP	Customer: Program 38

CHAIN OF CUSTODY RECORD

HSN	Customer Sample Id	Container Id	Mix	HSN	Customer Sample Id	Container Id	Mix
23159001	434-SB-01-0618	23159001-3	SO	23159002	434-SB-01-1830	23159002-3	SO
23159003	434-SB-01-3042	23159003-4	SO	23159004	434-SB-02-0618	23159004-3	SO
23159006	434-SB-02-3042	23159006-4	SO	23159007	434-SB-02A-1830	23159007-4	SO
23159008	434-SB-02-1830	23159008-4	SO				

Total Samples: 7

Total Containers: 7

Lab	Relinquished By	Date/Time	Received By	Date/Time	Comments
C-180	<i>Alyson Berkshire</i>	11-14-06 0930	See SML's Comments	11-14-06 0930	To holding refrigerator in room #0202
	From refrigerator	11-15-06 1425	See SML's Comments	11-15-06 1425	Sample Numbering.
	<i>Alyson Berkshire</i>	11-15-06 1430	See SML's Comments	11-15-06 1430	Returned to holding refrigerator in room #0202.
	From fridge. drb	11-15-06 1458	11-15-06 1458	11-15-06 1458	analysis
Remarks:					

Hable, Michael A Mr USACHPPM

From: Berkshire, Alyson M Ms ORISE
Sent: Wednesday, November 15, 2006 3:18 PM
To: Hable, Michael A Mr USACHPPM
Subject: Temp

Mike,

The temp on Camp Pedricktown WO# 23159 was 2 C for all samples. Sorry about that I am not sure why the LIMS didn't capture that.

Thank You,
Alyson M. Berkshire
Professional Associate
Sample Management Laboratory
Phone # 410-436-8288
Fax # 410-436-4108
Alyson.Berkshire@apg.amedd.army.mil



B

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES (DLS)
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403
(410) 436-2208

FINAL ANALYTICAL REPORT

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32197 **DLS WORK ORDER #:** 23159
REPORT SERIAL NUMBER: 319187

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature: Geraldine Miles **Date:** 13 Dec 2006
Geraldine Miles, Chief, Analytical Spectrometry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23159, Report Serial No. 319187, 12/12/2006

CASE NARRATIVE

Provided are the results for seven soils sample submitted as high priority for Boron analyses. The samples were collected on 13 Nov 06. The samples were received in DLS on 14 Nov 06 at 2.0 degrees C, which is within the 2-4 degrees C acceptance range. The holding time was met.

Sample Preparation:

The samples were digested on 20-21 Nov 06 IAW EPA Method 3050B/SOP Met 40.8.

Sample Analysis:

The samples were analyzed on 07 Dec 06 IAW EPA Method 6010B/SOP MET 42.6 using the PE ICP Optima 5300. The reporting limit was met.

Quality control:

The following QC controls were analyzed with this data set: laboratory control (LCS), matrix spikes (MS), matrix spike duplicate (MSD) and post digestion instrument spike (IS). All QC results were within the acceptable limits.

The results are reported in mg/Kg on a dry weight basis.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	1
Sample Summary	1
Analytical Data Report	2
Quality Control Data Report	5
Raw Data	0
Terminology/Abbreviations	1

Report Point-of-Contact: Gerri Miles

Reviewer: LLB/AS *Abdul A. Simon*

List of all tests used:

DLS Procedure	Count
EPA 6010 MET42	7

Number of samples included in the report, by matrix:

Matrix	Quantity
Soil	7

Analyst(s):

Analyst Code	Analyst Name	Signature
0035	HOUSTONKL	<i>Cathleen Houston</i>

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
434-SB-01-0618	23159001	13-Nov-06	Soil
434-SB-01-1830	23159002	13-Nov-06	Soil
434-SB-01-3042	23159003	13-Nov-06	Soil
434-SB-02-0618	23159004	13-Nov-06	Soil
434-SB-02-1830	23159008	13-Nov-06	Soil
434-SB-02-3042	23159006	13-Nov-06	Soil
434-SB-02A-1830	23159007	13-Nov-06	Soil

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by Field ID

FINAL REPORT

Field ID: 434-SB-01-0618

DLS ID: 23159001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.3 mg/kg	21.3	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-01-1830

DLS ID: 23159002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<20.6 mg/kg	20.6	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-01-3042

DLS ID: 23159003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.8 mg/kg	21.8	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-02-0618

DLS ID: 23159004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.7 mg/kg	21.7	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-02-1830

DLS ID: 23159008

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<20.4 mg/kg	20.4	EPA 6010 MET42	0035	07-Dec-06

FINAL REPORT

Field ID: 434-SB-02-3042

DLS ID: 23159006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<22.0 mg/kg	22.0	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-02A-1830

DLS ID: 23159007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.7 mg/kg	21.7	EPA 6010 MET42	0035	07-Dec-06

Report ID: HMA0189v1
Report Seq: 319185



Date Generated: 12/12/2006 3:07:3
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US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)

Quality Control Report

DLS Workorder: 23159
Installation: Camp Pedricktown
Project Officer: Mr. David Jones
Profile: 0606

Report ID: HMA0189v1
 Report Seq: 319185
 Workorder No: 23159

Installation: Camp Pedricktown

Officer: Mr. David Jones
 Subjono: 0606

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**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Laboratory Control Samples Report**

Analyte	Date	Sample Number	Mx	Observed Units	Theoretical Units	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/7/2006	06LCS4-87	SO	1.078	0.974	110.68	HOUSTONKL	EPA 6010 MET42	BOYDLL	<input type="checkbox"/>	80	120

Report ID: HMA0189v1
 Report Seq: 319185
 Workorder No: 23159
 Installation: Camp Pedricktown
 Officer: Mr. David Jones
 Subjono: 0606

Page 1 of 1

Date Generated: 12/12/2006 3:07:46 PM
 Generated By: BOYDLL



US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Matrix (Pre-digested) Spike Sample Report

Analyte	Date	Sample Number	Mx	Initial Result	Units	MS Result	Units	Theoretical Units	mg/L	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/7/2006	23159001 MS	SO	0.2	mg/L	1.051	mg/L	1	mg/L	105.10	HOUSTONKL	EPA 6010 MET42	BOYDLL	<input type="checkbox"/>	80	120

Report ID: HMA0189v1
 Report Seq: 319185
 Workorder No: 23159
 Installation: Camp Pedricktown
 Officer: Mr. David Jones
 Subjono: 0606

Page 1 of 1

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US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)

Matrix Spike Duplicates Report

Analyte	Date	Sample Number	Mx	MS		MSD		Units	% RPD	Recovery	Analyst	Method	Reviewer	Outside Limits		
				Result	Units	Result	Units							LCL	UCL	
Boron	12/7/2006	23159001 MSD	SO	1.051	mg/L	1.072	mg/L	1.98			HOUSTONK	EPA 6010 MET42	BOYDILL	<input type="checkbox"/>	80	120

Report ID: HMA0189v1
 Report Seq: 319185
 Workorder No: 23159

Installation: Camp Pedricktown
 Officer: Mr. David Jones
 Subjono: 0606

Page 1 of 1
 Date Generated: 12/12/2006 3:07:41 PM
 Generated By: BOYDLL



**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Instrument Spike Sample Report**

Analyte	Date	Sample Number	Mx	Initial Result	Units	Sample Volume	Spike Solution Conc	Spike Volume	Spiked Result	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/7/2006	23159001 IS	SO	0.2	mg/L	9.9	200	0.1	1,985	99.25	HOUSTONKL	EPA 6010 MET4	BOYDLL	<input type="checkbox"/>	75	125

TERMINOLOGY/ABBREVIATIONS

Term	Description
MDA	The minimum detectable activity.
ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CFR	Code of Federal Regulations
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
ACCURACY	A measure of how close a measured value is to a known true value. Accuracy is assessed by means of reference samples and percent recoveries of spiked samples.
ANALYSIS OF VARIANCE	A technique of statistical analysis by which the components of variation for different elements of the data set are separated and estimated.
BLANK	An artificial sample designed to monitor the introduction of artifacts or contamination into the analytical process. The blank is taken through the appropriate steps in the analytical process. Examples are: trip, field, equipment, and reagent blanks.
AIHA	American Industrial Hygiene Association



B

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES (DLS)
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403
(410) 436-2208

FINAL ANALYTICAL REPORT

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32204 **DLS WORK ORDER #:** 23164
REPORT SERIAL NUMBER: 319203

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature: Geraldine Miles **Date:** 13 Dec 2006
Geraldine Miles, Chief, Analytical Spectrometry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23164, Report Serial No. 319203, 12/12/2006

CASE NARRATIVE

Provided are the results for thirteen soils sample submitted as high priority for Boron analyses. The samples were collected on 14 Nov 06. The samples were received in DLS on 15 Nov 06 at 8.0 degrees C, which is not within the 2-4 degrees C acceptance range. The holding time was met.

Sample Preparation:

The samples were digested on 20-21 Nov 06 IAW EPA Method 3050B/SOP Met 40.8.

Sample Analysis:

The samples were analyzed on 07 Dec 06 IAW EPA Method 6010B/SOP MET 42.6 using the PE ICP Optima 5300. The reporting limit was met.

Quality control:

The following QC controls were analyzed with this data set: laboratory control (LCS), matrix spikes (MS), matrix spike duplicate (MSD) and post digestion instrument spike (IS). All QC results were within the acceptable limits.

The results are reported in mg/Kg on a dry weight basis.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	1
Sample Summary	1
Analytical Data Report	3
Quality Control Data Report	5
Raw Data	0
Terminology/Abbreviations	1

Report Point-of-Contact: Gerri Miles

Reviewer: LLB/AS *Sheryl Campbell Dinson*

List of all tests used:

DLS Procedure	Count
EPA 6010 MET42	13

Number of samples included in the report, by matrix:

Matrix	Quantity
Soil	13

Analyst(s):

Analyst Code	Analyst Name	Signature
0035	HOUSTONKL	<i>Kathleen Houston</i>

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
12-SB-01-1830	23164010	14-Nov-06	Soil
12-SB-02-1830	23164011	14-Nov-06	Soil
12-SB-03-1830	23164012	14-Nov-06	Soil
12-SB-03A-1830	23164013	14-Nov-06	Soil
434-SB-03-0618	23164001	14-Nov-06	Soil
434-SB-03-1830	23164002	14-Nov-06	Soil
434-SB-03-3042	23164003	14-Nov-06	Soil
434-SB-04-0618	23164004	14-Nov-06	Soil
434-SB-04-1830	23164005	14-Nov-06	Soil
434-SB-04-3042	23164006	14-Nov-06	Soil
434-SB-05-0618	23164007	14-Nov-06	Soil
434-SB-05-1830	23164008	14-Nov-06	Soil
434-SB-05-3042	23164009	14-Nov-06	Soil

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by Field ID

FINAL REPORT

Field ID: 12-SB-01-1830

DLS ID: 23164010

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<20.6 mg/kg	20.6	EPA 6010 MET42	0035	07-Dec-06

Field ID: 12-SB-02-1830

DLS ID: 23164011

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.1 mg/kg	21.1	EPA 6010 MET42	0035	07-Dec-06

Field ID: 12-SB-03-1830

DLS ID: 23164012

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.0 mg/kg	21.0	EPA 6010 MET42	0035	07-Dec-06

Field ID: 12-SB-03A-1830

DLS ID: 23164013

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<18.9 mg/kg	18.9	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-03-0618

DLS ID: 23164001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.6 mg/kg	21.6	EPA 6010 MET42	0035	07-Dec-06

FINAL REPORT

Field ID: 434-SB-03-1830

DLS ID: 23164002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<22.1 mg/kg	22.1	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-03-3042

DLS ID: 23164003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.6 mg/kg	21.6	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-04-0618

DLS ID: 23164004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.8 mg/kg	21.8	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-04-1830

DLS ID: 23164005

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<22.2 mg/kg	22.2	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-04-3042

DLS ID: 23164006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<20.5 mg/kg	20.5	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-05-0618

DLS ID: 23164007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED

FINAL REPORT

Field ID: 434-SB-05-0618

DLS ID: 23164007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.6 mg/kg	21.6	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-05-1830

DLS ID: 23164008

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.9 mg/kg	21.9	EPA 6010 MET42	0035	07-Dec-06

Field ID: 434-SB-05-3042

DLS ID: 23164009

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	<21.5 mg/kg	21.5	EPA 6010 MET42	0035	07-Dec-06

Report ID: HMA0189v1
Report Seq: 319200



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US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)

Quality Control Report

DLS Workorder: 23164
Installation: Camp Pedricktown
Project Officer: Mr. David Jones
Profile: 0606

Report ID: HMA0189v1
 Report Seq: 319200
 Workorder No: 23164
 Installation: Camp Pedricktown
 Officer: Mr. David Jones
 Subjono: 0606



**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Instrument Spike Sample Report**

Analyte	Date	Sample Number	Mx	Initial Result	Units	Sample Volume	Spike Solution Conc	Spike Volume	Spiked Result	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/7/2006	23164001 IS	SO	0.2	mg/L	9.9	200	0.1	2.08	104.00	HOUSTONKL	EPA 6010 MET4	BOYDLL	<input type="checkbox"/>	75	125

Report ID: HMA0189v1
 Report Seq: 319200
 Workorder No: 23164

Installation: Camp Pedricktown
 Officer: Mr. David Jones
 Subjono: 0606

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**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Laboratory Control Samples Report**

Analyte	Date	Sample Number	Mx	Observed Units	Theoretical Units	mg/L	% Rec.	Analyst	Method	Reviewer	LCL	UCL	Outside Limits
Boron	12/7/2006	06LCS4-87	SO	1.078	0.974	mg/L	110.68	HOUSTONKL	EPA 6010 MET42	BOYDLL	80	120	<input type="checkbox"/>

Report ID: HMA0189v1
 Report Seq: 319200
 Workorder No: 23164
 Installation: Camp Pedricktown
 Officer: Mr. David Jones
 Subjono: 0606

Page 1 of 1

Date Generated: 12/12/2006 3:49:08 PM
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US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)

Matrix Spike Duplicates Report

Analyte	Date	Sample Number	Mx	MS Result	Units	MSD Result	Units	% RPD	Recovery	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/7/2006	23164001 MSD	SO	0.999	mg/L	1.041	mg/L	4.12		HOUSTONK	EPA 6010 MET42	BOYDLL	<input type="checkbox"/>	80	120

Report ID: HMA0189v1
 Report Seq: 319200
 Workorder No: 23164

Installation: Camp Pedricktown

Officer: Mr. David Jones
 Subjono: 0606

Page 1 of 1

Date Generated: 12/12/2006 3:49:11 PM
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US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)

Matrix (Pre-digested) Spike Sample Report

Analyte	Date	Sample Number	Mx	Initial Result	Units	MS Result	Units	Theoretical Units	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/7/2006	23164001	MS	0.2	mg/L	0.999	mg/L	1	99.90	HOUSTONKL	EPA 6010 MET42	BOYDLL	<input type="checkbox"/>	80	120

TERMINOLOGY/ABBREVIATIONS

Term	Description
MDA	The minimum detectable activity.
ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CFR	Code of Federal Regulations
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
ACCURACY	A measure of how close a measured value is to a known true value. Accuracy is assessed by means of reference samples and percent recoveries of spiked samples.
ANALYSIS OF VARIANCE	A technique of statistical analysis by which the components of variation for different elements of the data set are separated and estimated.
BLANK	An artificial sample designed to monitor the introduction of artifacts or contamination into the analytical process. The blank is taken through the appropriate steps in the analytical process. Examples are: trip, field, equipment, and reagent blanks.
AIHA	American Industrial Hygiene Association



Met

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

DIRECTORATE OF LABORATORY SCIENCES (DLS)

5158 BLACKHAWK ROAD

ABERDEEN PROVING GROUND, MARYLAND 21010-5403

(410) 436-2208

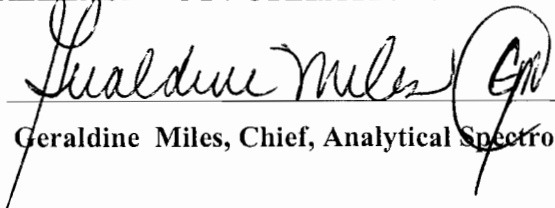
FINAL ANALYTICAL REPORT

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: Camp Pedricktown
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32209 DLS WORK ORDER #: 23167
REPORT SERIAL NUMBER: 318760

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature:  **Date:** 11 DEC 2006
Geraldine Miles, Chief, Analytical Spectrometry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

Provided are the results for two rinse water samples submitted from Camp Pedricktown with chain of custody for metals analysis. The samples were collected on 14 Nov 06 and received in DLS on 15 Nov 06 at 8.0 C which is not within the acceptable temperature range of 2-6 C. The required holding times were met.

Sample Preparation:

Except for B and Cr, the samples were digested on 04-05 Dec 06 by EPA Method 3020A (SOP MET 13.6). The samples were digested for B and Cr by EPA Method 3010A (SOP MET 14.6) on 04-05 Dec 06.

Sample Analysis:

The samples were analyzed for two metals (B, Cr) by EPA Method 6010 B (SOP MET 42.6) using the Optima 4300 DV on 06 Dec 06. The reporting limits were met.

The samples were analyzed for four metals (As, Mo, Cd, Pb) by EPA Method 6020 A (SOP MET 9.5) on 06 Dec 06 using the AG4500 ICP-MS instrumentation. All reporting limits were met.

There was a deviation from 6020 A method: a spectral interference solution (ICSA AB) should be run with this data set but it was missed. It does not affect the quality of data.

Quality Control:

The QC report contains a laboratory control (LCS), matrix spike (MS), matrix spike duplicate (MSD) and a post digestion instrument spike (IS) values.

All QC results were within the acceptance limits except LCS-B which recovered at 130.3%. The acceptance range for LCS-B is 75.0% to 125%. Based on the other QC results the reported values for B are reliable.

The results are reported in mg/L for EPA Method 6010 B; ug/L for EPA Method 6020 A.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	2
Quality Control Data Report	5
Raw Data	
Terminology/Abbreviations	1

Report Point-of-Contact: Miles Gerri

Reviewer:

WD / MC

[Handwritten signatures]

List of all tests used:

DLS Procedure	Count
EPA 6010 MET42	4
EPA 6020 MET9	8

Number of samples included in the report, by matrix:

Matrix	Quantity
Water, Rinse	2

DLS Final Analytical Report, Camp Pedricktown

Program 38, SUBJONO 0606, DLS WO# 23167, Report Serial No. 318760, 12/8/2006

Analyst(s):

Analyst Code	Analyst Name
0041	MCKENZIERM
0062	SIMONAS

Signature

Angelina Simon

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
12-ER2	23167002	14-Nov-06	Water, Rinse
434-ER1	23167001	14-Nov-06	Water, Rinse

FINAL REPORT

Field ID: 434-ER1

DLS ID: 23167001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Arsenic	<4.00 ug/L	4.00	EPA 6020 MET9	0041	06-Dec-06
Boron	0.229 mg/L	0.100	EPA 6010 MET42	0062	06-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0041	06-Dec-06
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	06-Dec-06
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0041	06-Dec-06
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0041	06-Dec-06

ANALYTICAL DATA REPORT
FINAL REPORT

(FORMAT OPTION 1)

Sorted by Field ID

Field ID: 12-ER2

DLS ID: 23167002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Arsenic	<4.00 ug/L	4.00	EPA 6020 MET9	0041	06-Dec-06
Boron	0.254 mg/L	0.100	EPA 6010 MET42	0062	06-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0041	06-Dec-06
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	06-Dec-06
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0041	06-Dec-06
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0041	06-Dec-06

Report ID: HMA0189v1

Report Seq: 318763



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US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)

Quality Control Report

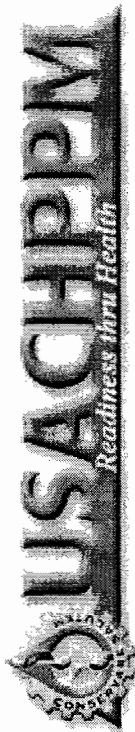
DLS Workorder: 23167
Installation: Camp Pedricktown
Project Officer: Mr. David Jones
Profile: 0606

Report ID: HMA0189v1
 Report Seq: 318763
 Workorder No: 23167

Installation: Camp Pedricktown

Officer: Mr. David Jones

Subjono: 0606



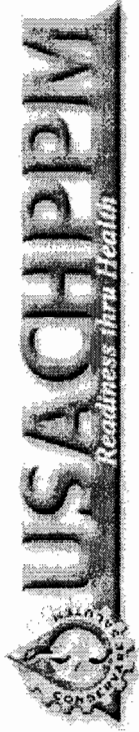
**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Laboratory Control Samples Report**

Analyte	Date	Sample Number	Mx	Observed Units	Theoretical Units	Units	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/6/2006	06LCS4-114	RW	1.303 mg/L	1	mg/L	130.30	SIMONAS	EPA 6010 MET42	WANDA.DUD	<input type="checkbox"/>		
Chromium	12/6/2006	06LCS4-114	RW	0.997 mg/L	1	mg/L	99.70	SIMONAS	EPA 6010 MET42	WANDA.DUD	<input type="checkbox"/>		
Arsenic	12/6/2006	06LCS4-115	RW	41.82 ug/L	50	ug/L	83.64	MCKENZIERM	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		
Cadmium	12/6/2006	06LCS4-115	RW	42.61 ug/L	50	ug/L	85.22	MCKENZIERM	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		
Lead	12/6/2006	06LCS4-115	RW	49.32 ug/L	50	ug/L	98.64	MCKENZIERM	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		
Molybdenum	12/6/2006	06LCS4-115	RW	48.29 ug/L	50	ug/L	96.58	MCKENZIERM	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		

Report ID: HMA0189v1
 Report Seq: 318763
 Workorder No: 23167

Installation: Camp Pedricktown

Officer: Mr. David Jones
 Subjono: 0606



Page 1 of 1
 Date Generated: 12/8/2006 9:56:27 AM
 Generated By: WANDA.DUDEK

**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Instrument Spike Sample Report**

Analyte	Date	Sample Number	Mx	Initial Result	Units	Sample Volume	Spike Solution Conc	Spike Volume	Spiked Result	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
Boron	12/6/2006	23167001 IS	RW	0.229	mg/L	9.9	200	0.1	2.165	96.91	SIMONAS	EPA 6010 MET4	WANDA.DUD	<input type="checkbox"/>		
Chromium	12/6/2006	23167001 IS	RW	< 0.02	mg/L	9.9	50	0.1	0.507	101.40	SIMONAS	EPA 6010 MET4	WANDA.DUD	<input type="checkbox"/>		
Arsenic	12/6/2006	23167001 IS	RW	< 4	ug/L	10	10000	0.05	39.16	78.71	MCKENZIER	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		
Cadmium	12/6/2006	23167001 IS	RW	< 2	ug/L	10	10000	0.05	39.97	80.34	MCKENZIER	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		
Lead	12/6/2006	23167001 IS	RW	< 4	ug/L	10	10000	0.05	51.94	104.40	MCKENZIER	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		
Molybdenum	12/6/2006	23167001 IS	RW	< 2	ug/L	10	10000	0.05	49.76	100.02	MCKENZIER	EPA 6020 MET9	WANDA.DUD	<input type="checkbox"/>		

Report ID: HMA0189v1
 Report Seq: 318763
 Workorder No: 23167
 Installation: Camp Pedricktown
 Officer: Mr. David Jones
 Subjono: 0606



Page 1 of 1
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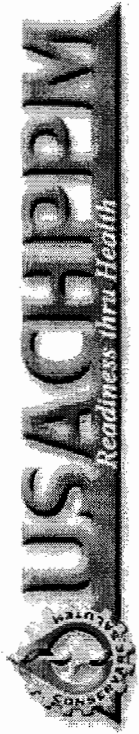
**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Matrix (Pre-digested) Spike Sample Report**

Analyte	Date	Sample Number	Mx	Initial Result		MS Result		Theoretical Units	% Rec.	Analyst	Method	Reviewer	Outside Limits	
				Result	Units	Result	Units						LCL	UCL
Boron	12/6/2006	23167001 MS	RW	0.229	mg/L	1.33	mg/L	1	110.10	SIMONAS	EPA 6010 MET42	WANDA.DU	<input type="checkbox"/>	<input type="checkbox"/>
Chromium	12/6/2006	23167001 MS	RW	0.02	mg/L	0.945	mg/L	1	94.50	SIMONAS	EPA 6010 MET42	WANDA.DU	<input type="checkbox"/>	<input type="checkbox"/>
Arsenic	12/6/2006	23167001 MS	RW	4	ug/L	41.59	ug/L	50	83.18	MCKENZIER	EPA 6020 MET9	WANDA.DU	<input type="checkbox"/>	<input type="checkbox"/>
Cadmium	12/6/2006	23167001 MS	RW	2	ug/L	42.01	ug/L	50	84.02	MCKENZIER	EPA 6020 MET9	WANDA.DU	<input type="checkbox"/>	<input type="checkbox"/>
Lead	12/6/2006	23167001 MS	RW	4	ug/L	49.54	ug/L	50	99.08	MCKENZIER	EPA 6020 MET9	WANDA.DU	<input type="checkbox"/>	<input type="checkbox"/>
Molybdenum	12/6/2006	23167001 MS	RW	2	ug/L	49.09	ug/L	50	98.18	MCKENZIER	EPA 6020 MET9	WANDA.DU	<input type="checkbox"/>	<input type="checkbox"/>

Report ID: HMA0189v1
 Report Seq: 318763
 Workorder No: 23167

Installation: Camp Pedricktown

Officer: Mr. David Jones
 Subjono: 0606



Page 1 of 1
 Date Generated: 12/8/2006 9:56:35 AM
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US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)

Matrix Spike Duplicates Report

Analyte	Date	Sample Number	Mix	MS		MSD		Units	% RPD	Recovery	Analyst	Method	Reviewer	Outside Limits	
				Result	Units	Result	Units							LCL	UCL
Boron	12/6/2006	23167001 MSD	RW	1.33	mg/L	1.343	mg/L	0.97			SIMONAS	EPA 6010 MET42	WANDA.DUDE		
Chromium	12/6/2006	23167001 MSD	RW	0.945	mg/L	0.932	mg/L	1.39			SIMONAS	EPA 6010 MET42	WANDA.DUDE		
Arsenic	12/6/2006	23167001 MSD	RW	41.59	ug/L	41.29	ug/L	0.72			MCKENZIER	EPA 6020 MET9	WANDA.DUDE		
Cadmium	12/6/2006	23167001 MSD	RW	42.01	ug/L	42.22	ug/L	0.50			MCKENZIER	EPA 6020 MET9	WANDA.DUDE		
Lead	12/6/2006	23167001 MSD	RW	49.54	ug/L	53.3	ug/L	7.31			MCKENZIER	EPA 6020 MET9	WANDA.DUDE		
Molybdenum	12/6/2006	23167001 MSD	RW	49.09	ug/L	52.24	ug/L	6.22			MCKENZIER	EPA 6020 MET9	WANDA.DUDE		

TERMINOLOGY/ABBREVIATIONS

Term	Description
MDA	The minimum detectable activity.
ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CFR	Code of Federal Regulations
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
ACCURACY	A measure of how close a measured value is to a known true value. Accuracy is assessed by means of reference samples and percent recoveries of spiked samples.
ANALYSIS OF VARIANCE	A technique of statistical analysis by which the components of variation for different elements of the data set are separated and estimated.
BLANK	An artificial sample designed to monitor the introduction of artifacts or contamination into the analytical process. The blank is taken through the appropriate steps in the analytical process. Examples are: trip, field, equipment, and reagent blanks.
AIHA	American Industrial Hygiene Association

Met

**DIRECTORATE OF LABORATORY SCIENCES
CONTRACT DATA TECHNICAL REVIEW**

PROJECT OFFICER: David Jones DIVISION/TEAM: _____

INSTALLATION: Camp Pedricktown CONTRACT LAB: Gascoyne

PROJECT NO: Program 38 LIMS W.O. NO: 23159

DLS TECHNICAL REVIEW OF YOUR CONTRACT DATA PACKAGE HAS BEEN COMPLETED. THE FOLLOWING ACTION HAS BEEN TAKEN:

_____ DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE AS SUBMITTED.

X DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE WITH COMMENTS NOTED BELOW.

_____ OTHER.

COMMENTS/ NARRATIVE:

Seven soil samples were collected 13 Nov 2006 and were received 14 Nov for analysis of arsenic, cadmium, chromium, lead and molybdenum using SW-846 methodology. The samples were sent to our contracting laboratory, Gascoyne, which analyzed them by EPA method 6020 on 6 Dec.

The metals team reviewed the data package, which includes QC results and a narrative; everything met the team's acceptance criteria with the exception noted in the contractor's case narrative.

The reporting units are mg/Kg (dry weight).

REVIEWED BY: *Elizabeth P Burrows*
DATE: *13 Dec 06*

CHAIN OF CUSTODY
SAMPLES

Pick-Up / Work / Delivery Order
Generated by: HEIDI.TAYLOR
MCU WO# 0611446

Section I - Contract/Project Information

Contract Information

Pickup Order: 209/1
DLS WO#: 23159
Contractor Code: GAS
Contract#: W91ZLK-05-C-0025
Contract POC: Mike Arbaugh
Sent by Team: MET
Priority: Standard
of Samples: 7
Batch: 1896
HBN: 196902

Project Information

Project Site: Camp Pedricktown
Project #: Program 38--38
Client Name: Mr. David Jones
JONO: 77HR7E
SUBJONO: 0606
DLS WO#: 23159
DLS Profile#: 32197
CONTRACTOR
Due DATE
8 Dec 2006
HD 12/12/06

Pick-Up/Work/Delivery Order Approved by:

Heidi Taylor
Signature of USACHPPM's COR
Heidi Taylor
(Callers Name)

11-16-06
(Date/Time called)

USACHPPM called for pickup:

CONTRACTOR'S ENTRY

Pick-up Order received by: *Stormy Laboratory*
(Signature of Laboratory courier)

(Date/Time of pick-up) 11-16-06 11:25

Number of samples received intact: _____
(#All)

Number of samples received broken: _____
(#None)

Data package received by at CHPPM: *Alveta Brown*

Delivery Data: *Hand Carried* 12-11-06
(Means of Delivery - UPS/FedEx) Date

Note: A copy of this form must be completed and returned for each sample batch and respective sample data package.

**CHAIN OF CUSTODY
SAMPLES**

Pick-Up / Work / Delivery Order
Generated by: HEIDI.TAYLOR MLI WO# 0611446

Section I - Contract/Project Information

Contract Information

Pickup Order: 209/1
DLS WO#: 23159 Batch: 1896
Contractor Code: GAS HBN: 196902
Contract#: W91ZLK-05-C-0025
Contract POC: Mike Arbaugh
Sent by Team: MET
Priority: Standard
of Samples: 7

Project Information

Project Site: Camp Pedricktown
Project #: Program 38--38
Client Name: Mr. David Jones
JONO: 77HR7E
SUBJONO: 0606
DLS WO#: 23159
DLS Profile#: 32197

CONTRACTOR
DUE DATE
8 Dec 2006

Pick-Up/Work/Delivery Order Approved by:


(Signature of USA CHPPM's CORP)

11-16-06

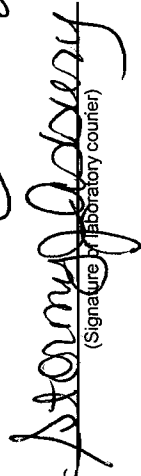
(Date/Time called)

USACHPPM called for pickup:


(Callist's Name)

CONTRACTOR'S ENTRY

Pick-up Order received by:


(Signature of Laboratory courier)

(Date/Time of pick-up)

11-16-06 11:25

Number of samples received intact: _____

(#All)

Number of samples received broken: _____

(#None)

Data package received by at CHPPM: _____

Delivery Data: _____

Date

(Means of Delivery - UPS/FedEx)

Note: A copy of this form must be completed and returned for each sample batch and respective sample data package.

Section II - Acodes Assigned to The Samples

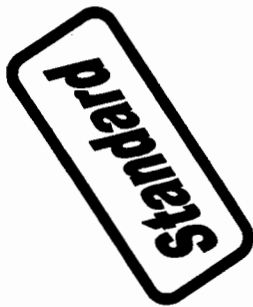
DLS Number	Field ID	Matrix	GAS1717	GAS147	GAS148	GAS150	GAS151	GAS166
23159001	434-SB-01-0618	SO	1	1	1	1	1	1
23159002	434-SB-01-1830	SO	1	1	1	1	1	1
23159003	434-SB-01-3042	SO	1	1	1	1	1	1
23159004	434-SB-02-0618	SO	1	1	1	1	1	1
23159006	434-SB-02-3042	SO	1	1	1	1	1	1
23159007	434-SB-02A-1830	SO	1	1	1	1	1	1
23159008	434-SB-02-1830	SO	1	1	1	1	1	1

Section III - Acode Descriptions / Matrix Code Descriptions

Acodes on the Report			Matrix types included in this Report	
ACODE	ACODE Description	Quantity	Matrix	Quantity
GAS2166	Molybdenum (Mo)	7	Soil	7
GAS2151	Procedure Description Lead (Pb)	7	SO	7
GAS2150	Procedure Description Cadmium (Cd)	7	SO	7
GAS2148	Procedure Description Chromium (Cr)	7	SO	7
GAS2147	Procedure Description Arsenic (As)	7	SO	7
GAS1717	Procedure Description %Moisture	7	SO	7



U.S. Army Center for Health Promotion and Preventive Medicine
Directorate of Laboratory Sciences
Aberdeen Proving Ground, MD 21010-5403
<http://chppm-www.apgea.army.mil/dls>



Chain Of Custody (COC)

This Chain of Custody is an Addendum to the Original COC submitted on 11-14-06 to SML. This is SML's internal Chain of Custody.

<p>Profile: 32197 - 0606</p> <p>Workorder #: 23159</p> <p>Queue: GAS</p> <p>Location: Camp Pedricktown</p> <p>Jono: 77HR7E</p> <p>Subjono: 0606</p> <p>Turn Code: W020 20 Work days from receipt</p>	<p>Description: Camp Pedricktown~32197</p> <p>Workorder ID: 0606319</p> <p>Customer: Program:38 POC: Mr. David Jones</p> <p>Project Number: 38</p> <p>Notes: Mo acode for soil matrix not available, will be added to workorder as soon as it is available. Aberkshire 11-15-06 Mo added to workorder 11-16-06 Aberkshire</p>
---	--

Total Samples: 7 Total Containers: 7

HSN	Container ID	Customer Sample ID	Sample Type	Matrix	Temp (C)	Date/Time Received	Date/Time Collected	Sample Due Date
	23159001	434-SB-01-0618	SAMPLE	SO	2.0	14-Nov-2006 09:10 AM	13-Nov-2006 09:00 AM	13-Dec-2006
ACodes:	GAS2147 : Arsenic (As)							
	GAS2151 : Lead (Pb)							
	23159002	434-SB-01-1830	SAMPLE	SO	2.0	14-Nov-2006 09:10 AM	13-Nov-2006 09:15 AM	13-Dec-2006
ACodes:	GAS2148 : Chromium (Cr)							
	GAS2147 : Arsenic (As)							
	GAS2151 : Lead (Pb)							
	23159003	434-SB-01-3042	SAMPLE	SO	2.0	14-Nov-2006 09:10 AM	13-Nov-2006 09:15 AM	13-Dec-2006
ACodes:	GAS2148 : Chromium (Cr)							
	GAS2147 : Arsenic (As)							
	GAS2151 : Lead (Pb)							
	23159004	434-SB-02-0618	SAMPLE	SO	2.0	14-Nov-2006 09:10 AM	13-Nov-2006 01:30 PM	13-Dec-2006
ACodes:	GAS2148 : Chromium (Cr)							
	GAS2147 : Arsenic (As)							
	GAS2151 : Lead (Pb)							



Profile: 32197 - 0606	Description: Camp Pedricktown--32197
Workorder #: 23159	Workorder ID: 0606319
Queue: GAS	Customer: Program 38

23159006	23159006-2	434-SB-02-3042	SAMPLE	SO	Soil	2.0	14-Nov-2006 09:10 AM	13-Nov-2006 02:00 PM	13-Dec-2006
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ACodes:

GAS1717 : %Moisture
GAS2151 : Lead (Pb) ✓

GAS2147 : Arsenic (As)
GAS2166 : Molybdenum (Mo)

23159007	23159007-2	434-SB-02A-1830	SAMPLE	SO	Soil	2.0	14-Nov-2006 09:10 AM	13-Nov-2006 02:00 PM	13-Dec-2006
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ACodes:

GAS1717 : %Moisture
GAS2151 : Lead (Pb)

GAS2148 : Chromium (Cr)
GAS2150 : Cadmium (Cd)

23159008	23159008-2	434-SB-02-1830	SAMPLE	SO	Soil	2.0	14-Nov-2006 09:10 AM	13-Nov-2006 02:00 PM	13-Dec-2006
----------	------------	----------------	--------	----	------	-----	----------------------	----------------------	-------------

ACodes:

GAS1717 : %Moisture
GAS2151 : Lead (Pb)

GAS2148 : Chromium (Cr)
GAS2150 : Cadmium (Cd)

C-222

Total Samples: <u>7</u>	Total Containers: <u>7</u>
--------------------------------	-----------------------------------

Samples Received By: Stormy Esbury	Date Received: 11-14-06 11:25
Document Reviewed By: Alyson Berkshire	Date Reviewed: 11-16-06
Document Quality Review By: Alberta Brown	Date Reviewed: [Signature]
Samples Approved For Distribution: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date Approved: [Signature]



Profile: 32197 - 0606	Description: Camp Pedricktown~32197
Workorder #: 23159	Workorder ID: 0606319
Queue: GAS	Customer: Program 38

SAMPLE DISPOSAL RECORD

HSN	Date Of Disposal	Number Of Containers	Signature	Remarks
23159001		1		
23159002		1		
23159003		1		
23159004		1		
23159006		1		
23159007		1		
23159008		1		

Total Samples: 7 Total Containers: 7

C-224

Out of Custody

Cooler Receipt Form

Number of Coolers Received: 1
 Client: USA CHPPM
 Form Completed By: DW

Receipt Date / Time: 11/14/04
 Work Order # _____

Shipper: Microbac Client UPS FedEx Courier
Waybill Number: _____

Exterior Inspection:
Shipping Container Type: Cooler Box Other None
Condition: Intact / Broken / Not-applicable **Custody Tape Intact:** Yes / No / Not applicable

Interior Inspection:
Chain of Custody: Yes No
Cooler Number: 1153
Samples received on ice or refrigerated:
From client: Yes No NA
From MLI. (Field Op's): Yes No NA
Temperature Blank: Yes No
 If present, temperature _____ °C
 If not, record surface temp. (IR) _____ °C
Radiation Scan: Negative _____ mR/hr
Coolant:
 Wet Ice Blue Ice None
Number of Samples: 9
Type/ Number of Containers: 1- plastic liter, 7- 4oz glass containers, 1- 300 ml glass Amber
Sample Bottle IDs agree with COC: Yes No
Incomplete / missing labels? Yes No
Type of Samples:
 Water Soil Solid Wipes
 Oil Filter Sludge Swabs
 Food Other _____
Containers: Any Broken? Yes No
Damaged/missing Custody Seal? Yes No NA
Headspace in container? Yes No NA
 If Yes, see reverse Not Checked
Preservation requirements met? Yes No
 If No, see reverse Not Checked

Interior Inspection:
Chain of Custody: _____ Yes No
Cooler Number: _____
Samples received on ice or refrigerated:
From client: _____ Yes No NA
From MLI. (Field Op's): _____ Yes No NA
Temperature Blank: _____ Yes No
 If present, temperature _____ °C
 If not, record surface temp. (IR) _____ °C
Radiation Scan: Negative _____ mR/hr
Coolant:
 Wet Ice Blue Ice None
Number of Samples: _____
Type/ Number of Containers: _____
Sample Bottle IDs agree with COC: _____ Yes No
Incomplete / missing labels? _____ Yes No
Type of Samples:
 Water Soil Solid Wipes
 Oil Filter Sludge Swabs
 Food Other _____
Containers: Any Broken? _____ Yes No
Damaged/missing Custody Seal? _____ Yes No NA
Headspace in container? _____ Yes No NA
 If Yes, see reverse Not Checked
Preservation requirements met? _____ Yes No
 If No, see reverse Not Checked

Container Types: A (300ml plastic) B (1000ml plastic) C (1000ml glass) CC (4oz plastic w/m) D (1000ml glass amber) E (4oz glass amber)
 F (4 oz sterile w/m cup) H (½ gallon plastic) J (2½ Gallon Glass Jar-"Pickle Jar") K (4oz glass) L (20ml glass) M (16oz glass)
 S (4oz sterile polypropylene) SN (300ml sterile nalgene) V (40ml VOA vial) W (1000 ml wide mouth glass amber)

- Notes:**
- Unpreserved samples are normally not checked unless requested by a client.
 - Oil & grease (O&G) and Total Petroleum Hydrocarbon (TPH) samples are checked at the time of analysis in the laboratory.
 - Samples will be checked at time of analysis for preservation / headspace for applicable organic, inorganic and microbiological analysis.
 - Hold IR Thermometer on even surface about 4" from sample to take temperature. Apply correction factor.
- Appendix of SOP SIM-001 Black/Blue
 X:\CS\FIELD OPS\FORMS\Cooler Receipt Form 11.06.06

Sample Acceptance & Noncompliance Form

Form Initiated By: ADW
 Client: LISA CHIPP

Date: 11/16/06

Container Type / Quantity:

- A - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- B - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- C - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- CC - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- D - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- E - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- H - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- J - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- K - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- L - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- M - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- W - Unpreserved H2SO4 HNO3 HCl NaOH Other()
- V - Unpreserved HCl HCl / ASC HCl / NaTHIO (Checked at time of Analysis)
- F - Unpreserved NaTHIO (Checked at time of Analysis)
- S - Unpreserved NaTHIO (Checked at time of Analysis)
- SN - Unpreserved NaTHIO NaTHIO/EDTA (Checked at time of Analysis)

*Plastic
 liter
 4oz glass
 containers*

- 3 air filters*
 Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()
- Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()
- Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()
- Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()

Describe preservation requirements not met:

All Acid preserved <2 pH NaOH preserved >12 pH All others >2 and <10 (usually 4-8)

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

H₂SO₄ – Sulfuric Acid, HNO₃ – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies:

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____

Comments: _____



Microbac Laboratories, Inc. Gascoyne Division

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

2101 Van Deman Street • Baltimore, MD 21224

CASE NARRATIVE

Microbac Laboratories, Inc., Gascoyne Division

Report Number: 0611446

December 8, 2006

Report To: U.S. Army Center for Health Promotion and
Preventive Medicine (USACHPPM)
Aberdeen Proving Ground, MD 21010-5422
Contract #W91ZLK-05-C-0025

page 1 of 1

Metals

Pick-Up Order: 209/1

Date Sample Received: 11/16/06

Sample Number: 23159001-23159004
23159006-23159008

Matrix: Solid

Seven samples were transported to Microbac Laboratories, Inc., Gascoyne Division via laboratory courier and were relinquished to lab personnel in the sample control department for log-in. The sample containers were checked and were noted to be in satisfactory.

Requested test parameters performed by Microbac Laboratories, Inc., Gascoyne Division:

- Metals analysis, using EPA SW-846 methodology

References:

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Office of Solid Waste and Emergency Response, USEPA, Wash.,DC, November 1986; Final Update I, July 1992 Final Update II, September 1994 Final Update III, December 1996.

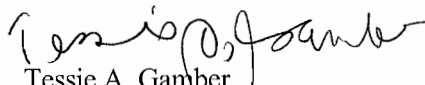
All laboratory quality control parameters were met with the following exceptions:

- 1) Molybdenum Laboratory Control Sample (LCS) recovery was below the lower acceptance limit (low bias). The matrix spike and matrix spike duplicate recoveries were acceptable. All results were flagged..

Enclosed are the following:

1. Report of Analysis (original plus one copy)
2. Cooler Receipt Form (one copy)
3. Pick-Up Order/Delivery Order (original plus one copy)
4. Laboratory Chronicle / Case Narrative (original plus one copy)
5. Quality Control Summary Report (original plus one copy)
6. Raw data (one copy)

Microbac Laboratories, Inc., Gascoyne


Tessie A. Gamber
Quality Assurance Officer



Microbac Laboratories, Inc. Gascoyne Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

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CERTIFICATE OF ANALYSIS

USACHPPM-Metals

Page 1

Contract #W91ZLK-05-C-0025

Bldg E2100, Rm 201

APG, MD 21010-5422

Attn: Heidi Taylor

Report No. 0611446

This report of analysis contains test results for samples received at Microbac Laboratories, Inc., Gascoyne Division on 11/16/2006 .

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Terms and Conditions [Attachment]
- Case Narrative [Attachment]
- QC Report [Attachment]
- Chain of Custody [Attachment]
- Cooler Receipt Report [Attachment]

This Report of Analysis Contains 9 Pages plus Attachment(s)



12/8/2006

Final report reviewed by:

Michael D. Arbaugh, Sr./Division Manager

Report issue date

All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operation Officer, at rmorgan@microbac.com

Microbac Laboratories, Inc. Gascoyne Division- laboratory accreditations: MD 109, VA 00157, NJ MD637, PA 68-339, NY 11158, ISO 17025, NELAC, AIHA 100491. The data and information on this, and other accompanying documents, represents only the sample(s) analyzed and is not to be reproduced wholly or in part for advertising or other purposes without written approval from the laboratory. Organics Qualifiers: (U) analyzed for but not detected; (J) estimated value, below the reporting limit but above one-half the reporting limit; (B) detected in the associated method blank; (D) reanalyzed at a higher dilution factor. Inorganics Qualifiers: (U) analyzed for but not detected; (B) estimated value, below the reporting limit but above one-half the reporting limit. A copy of COC is attached.



Microbac Laboratories, Inc.

Gascoyne Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

Sample Summary

Page 2

Project: 32197-0606

Report No: 0611446

Date Received 11/16/2006

Client Sample ID	Lab Sample ID	Matrix	Collection Date	Collection Time
23159001 434-SB-01-0618	0611446-001A	Soil	11/13/2006	9:00
23159002 434-SB-01-1830	0611446-002A	Soil	11/13/2006	9:15
23159003 434-SB-01-3042	0611446-003A	Soil	11/13/2006	9:15
23159004 434-SB-02-0618	0611446-004A	Soil	11/13/2006	13:30
23159006 434-SB-02-3042	0611446-005A	Soil	11/13/2006	14:00
23159007 434-SB-02A-1830	0611446-006A	Soil	11/13/2006	14:00
23159008 434-SB-02-1830	0611446-007A	Soil	11/13/2006	14:00



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Test Results

Page 3

Client:	USACHPPM-Metals	Client Sample ID:	23159001 434-SB-01-0618
Report No:	0611446	Lab ID:	0611446-001
Project:	32197-0606	Collection Date:	11/13/2006 9:00
Matrix:	SOIL		

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	4.4	0.42	mg/Kg-dry	12/6/2006 13:38
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 13:38
Chromium	13	0.52	mg/Kg-dry	12/6/2006 13:38
Lead	18	0.42	mg/Kg-dry	12/6/2006 13:38
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 13:38

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	8.7	0.050	wt%	11/24/2006 14:20
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Test Results

Page 4

Client:	USACHPPM-Metals	Client Sample ID:	23159002 434-SB-01-1830
Report No:	0611446		
Project:	32197-0606	Lab ID:	0611446-002
Matrix:	SOIL	Collection Date:	11/13/2006 9:15

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
ICP/MS METALS, TOTAL (SW846 6020)				Analyst: PRM
Prep. Method: <u>EPA 3050B</u>	Prep. Date: <u>12/4/2006 8:11:00 AM</u>	Prep Analyst: <u>EDP</u>		
<i>note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).</i>				
Arsenic	5.0	0.42	mg/Kg-dry	12/6/2006 14:05
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 14:05
Chromium	13	0.52	mg/Kg-dry	12/6/2006 14:05
Lead	25	0.42	mg/Kg-dry	12/6/2006 14:05
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 14:05
MOISTURE CONTENT (DRIED AT 105°C)				Analyst: RED
Prep. Method: <u>NA</u>	Prep. Date: <u>NA</u>	Prep Analyst: <u>NA</u>		
PMOIST	7.8	0.050	wt%	11/24/2006 14:20



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Test Results

Page 5

Client:	USACHPPM-Metals	Client Sample ID:	23159003 434-SB-01-3042
Report No:	0611446		
Project:	32197-0606	Lab ID:	0611446-003
Matrix:	SOIL	Collection Date:	11/13/2006 9:15

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B Prep. Date: 12/4/2006 8:11:00 AM Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	4.7	0.41	mg/Kg-dry	12/6/2006 14:09
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 14:09
Chromium	10	0.51	mg/Kg-dry	12/6/2006 14:09
Lead	26	0.41	mg/Kg-dry	12/6/2006 14:09
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 14:09

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA Prep. Date: NA Prep Analyst NA

PMOIST	8.4	0.050	wt%	11/24/2006 14:20
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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23159004 434-SB-02-0618
Report No:	0611446		
Project:	32197-0606	Lab ID:	0611446-004
Matrix:	SOIL	Collection Date:	11/13/2006 13:30

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
ICP/MS METALS, TOTAL (SW846 6020)				Analyst: PRM
Prep. Method: <u>EPA 3050B</u>	Prep. Date: <u>12/4/2006 8:11:00 AM</u>	Prep Analyst	<u>EDP</u>	
<i>note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).</i>				
Arsenic	6.3	0.41	mg/Kg-dry	12/6/2006 14:32
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 14:32
Chromium	7.7	0.52	mg/Kg-dry	12/6/2006 14:32
Lead	24	0.41	mg/Kg-dry	12/6/2006 14:32
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 14:32
MOISTURE CONTENT (DRIED AT 105°C)				Analyst: RED
Prep. Method: <u>NA</u>	Prep. Date: <u>NA</u>	Prep Analyst	<u>NA</u>	
PMOIST	8.3	0.050	wt%	11/24/2006 14:20



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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23159006 434-SB-02-3042
Report No:	0611446		
Project:	32197-0606	Lab ID:	0611446-005
Matrix:	SOIL	Collection Date:	11/13/2006 14:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
ICP/MS METALS, TOTAL (SW846 6020)				Analyst: PRM
Prep. Method: <u>EPA 3050B</u>	Prep. Date: <u>12/4/2006 8:11:00 AM</u>	Prep Analyst: <u>EDP</u>		
<i>note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).</i>				
Arsenic	2.7	0.45	mg/Kg-dry	12/6/2006 14:37
Cadmium	< 0.11	0.11	mg/Kg-dry	12/6/2006 14:37
Chromium	11	0.56	mg/Kg-dry	12/6/2006 14:37
Lead	4.4	0.45	mg/Kg-dry	12/6/2006 14:37
Molybdenum	< 1.1	1.1	mg/Kg-dry	12/6/2006 14:37
MOISTURE CONTENT (DRIED AT 105°C)				Analyst: RED
Prep. Method: <u>NA</u>	Prep. Date: <u>NA</u>	Prep Analyst: <u>NA</u>		
PMOIST	14	0.050	wt%	11/24/2006 14:20



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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23159007 434-SB-02A-1830
Report No:	0611446		
Project:	32197-0606	Lab ID:	0611446-006
Matrix:	SOIL	Collection Date:	11/13/2006 14:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
ICP/MS METALS, TOTAL (SW846 6020)				
Prep. Method: <u>EPA 3050B</u>	Prep. Date: <u>12/4/2006 8:11:00 AM</u>	Prep Analyst: <u>EDP</u>	Analyst: <u>PRM</u>	
<i>note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).</i>				
Arsenic	1.9	0.42	mg/Kg-dry	12/6/2006 14:41
Cadmium	< 0.11	0.11	mg/Kg-dry	12/6/2006 14:41
Chromium	9.6	0.53	mg/Kg-dry	12/6/2006 14:41
Lead	3.6	0.42	mg/Kg-dry	12/6/2006 14:41
Molybdenum	< 1.1	1.1	mg/Kg-dry	12/6/2006 14:41
MOISTURE CONTENT (DRIED AT 105°C)				
Prep. Method: <u>NA</u>	Prep. Date: <u>NA</u>	Prep Analyst: <u>NA</u>	Analyst: <u>RED</u>	
PMOIST	11	0.050	wt%	11/24/2006 14:20



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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23159008 434-SB-02-1830
Report No:	0611446		
Project:	32197-0606	Lab ID:	0611446-007
Matrix:	SOIL	Collection Date:	11/13/2006 14:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B Prep. Date: 12/4/2006 8:11:00 AM Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	1.9	0.41	mg/Kg-dry	12/6/2006	14:46
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006	14:46
Chromium	9.2	0.51	mg/Kg-dry	12/6/2006	14:46
Lead	3.6	0.41	mg/Kg-dry	12/6/2006	14:46
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006	14:46

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA Prep. Date: NA Prep Analyst NA

PMOIST	11	0.050	wt%	11/24/2006	14:20
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QC SUMMARY REPORT

12/8/2006

Company: USACHPPM-Metals

Report No: 0611446 +0611481

Project: 32197-0606

	Sample Type	Spike Value	Results	Units	REC (%)	RPD (%)	RPD Limit (%)	Low Limit	High Limit	Sample		
Arsenic	DUP		4.261	mg/Kg-dry		2.95	20			0611446-001A DU	14168	14168
	DUP		4.888	mg/Kg-dry		10.8	20			0611446-001A DL	14168	
	LCS	142	149.1	mg/Kg	105			79.58	120.4	14168 12-4 6020 S	14168	
	MBLK		0.08035	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	53.5	mg/Kg-dry	104			70	130	0611446-001A MS	14168	14168
	MSD	47.73	54.64	mg/Kg-dry	105	2.12	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	107	mg/Kg-dry	108			75	125	0611446-001A PDS	14168	
Cadmium	DUP		< 0.10	mg/Kg-dry		0	20			0611446-001A DU	14168	14168
	DUP		< 0.52	mg/Kg-dry		0	20			0611446-001A DL	14168	
	LCS	64.5	66.72	mg/Kg	103			81.6	118.4	14168 12-4 6020 S	14168	
	MBLK		< 0.10	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	50.81	mg/Kg-dry	108			70	130	0611446-001A MS	14168	14168
	MSD	47.73	51.63	mg/Kg-dry	108	1.61	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	105.3	mg/Kg-dry	111			75	125	0611446-001A PDS	14168	
Chromium	DUP		13.92	mg/Kg-dry		7.97	20			0611446-001A DL	14168	
	DUP		10.64	mg/Kg-dry		18.8	20			0611446-001A DU	14168	14168
	LCS	86.5	95.63	mg/Kg	111			78.5	121.4	14168 12-4 6020 S	14168	
	MBLK		< 0.50	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	68.29	mg/Kg-dry	117			70	130	0611446-001A MS	14168	14168
	MSD	47.73	70.13	mg/Kg-dry	120	2.65	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	127.9	mg/Kg-dry	121			75	125	0611446-001A PDS	14168	
Lead	DUP		18.69	mg/Kg-dry		2.43	20			0611446-001A DL	14168	
	DUP		16.86	mg/Kg-dry		7.9	20			0611446-001A DU	14168	14168
	LCS	93.6	100.9	mg/Kg	108			80.6	119.7	14168 12-4 6020 S	14168	
	MBLK		0.1284	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	70.72	mg/Kg-dry	111			70	130	0611446-001A MS	14168	14168
	MSD	47.73	73.16	mg/Kg-dry	115	3.39	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	131.4	mg/Kg-dry	119			75	125	0611446-001A PDS	14168	
Molybdenum	DUP		1.189	mg/Kg-dry		0	20			0611446-001A DL	14168	
	DUP		0.4603	mg/Kg-dry		0	20			0611446-001A DU	14168	14168
	LCS	39	27.86	mg/Kg	71.4			79.2	120.8	14168 12-4 6020 S	14168	
	MBLK		0.08	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	47.83	mg/Kg-dry	100			70	130	0611446-001A MS	14168	14168
	MSD	47.73	49.31	mg/Kg-dry	102	3.04	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	100.9	mg/Kg-dry	106			75	125	0611446-001A PDS	14168	

Reviewed By

 Date

12/8/2006

Notes: MBLK: Method Blank PDS: Post Digestion/Distillation Spike MSD: Matrix Spike Duplicate DUP: Duplicate
 MS: Matrix Spike LCS(D): Laboratory Control Sample (Duplicate) RPD: Relative Percent Difference REC: Recovery
 ICB/ICV: Initial Calibration Blank(Verification Standard) CCB/CCV: Continuing Calibration Blank(Verification Standard)

QC SUMMARY REPORT

12/1/2006

Company: USACHPPM-Metals

Report No: 0611446

Project: 32197-0606

	Sample Type	Spike Value	Results	Units	REC (%)	RPD (%)	RPD Limit (%)	Low Limit	High Limit	Sample
Total Solids	DUP		1.271	w%		1.56	15			0611181-033A DUP R48950
	DUP		16.17	w%		13.9	15			0611181-043A DUP R48950
	LCS	2	2.018	w%	101			95	108	LCS #2 R48950
	MBLK		0.00440	w%						Method Blank #2 R48950

Reviewed By



Date

12/1/06

Notes: MBLK: Method Blank PDS: Post Digestion/Distillation Spike MSD: Matrix Spike Duplicate DUP: Duplicate
 MS: Matrix Spike LCS(D): Laboratory Control Sample (Duplicate) RPD: Relative Percent Difference REC: Recovery
 ICB/ICV: Initial Calibration Blank(Verification Standard) CCB/CCV: Continuing Calibration Blank(Verification Standard)

Met

**DIRECTORATE OF LABORATORY SCIENCES
CONTRACT DATA TECHNICAL REVIEW**

PROJECT OFFICER: David Jones DIVISION/TEAM: _____

INSTALLATION: Camp Pedricktown CONTRACT LAB: Gascoyne

PROJECT NO: Program 38 LIMS W.O. NO: 23164

DLS TECHNICAL REVIEW OF YOUR CONTRACT DATA PACKAGE HAS BEEN COMPLETED. THE FOLLOWING ACTION HAS BEEN TAKEN:

_____ DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE AS SUBMITTED.

X DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE WITH COMMENTS NOTED BELOW.

_____ OTHER.

COMMENTS/ NARRATIVE:

Thirteen soil samples were collected 14 Nov 2006 and were received 15 Nov for analysis of arsenic, cadmium, chromium, lead and molybdenum using SW-846 methodology. The samples were sent to our contracting laboratory, Gascoyne, which analyzed them by EPA method 6020 on 6 Dec.

The metals team reviewed the data package, which includes QC results and a narrative; everything met the team's acceptance criteria with the exception noted in the contractor's case narrative.

The reporting units are mg/Kg (dry weight).

REVIEWED BY: *Elizabeth P Burrows*
DATE:

Pick-Up / Work / Delivery Order
Generated by: PUZNIKRW

MU # 0611481

Section I - Contract/Project Information

Contract Information

Pickup Order: 211/1
DLS WO#: 23164
Contractor Code: GAS
Contract#: W91ZLK-05-C-0025
Contract POC: Mike Arbaugh
Sent by Team: MET
Priority: Standard
of Samples: 13

Batch: 1898
HBN: 196926

Project Information

Project Site: Camp Pedricktown
Project #: Program 38--38
Client Name: Mr. David Jones
JONO: 77HR7E
SUBJONO: 0606
DLS WO#: 23164
DLS Profile#: 32204

X Due Date
12 Dec 06

Pick-Up/Work/Delivery Order Approved by: [Signature]
(Signature of USACHPPM's COR)

USACHPPM called for pickup: [Signature]
(Caller's Name)

(Date/Time called) 16 Nov-06

CONTRACTOR'S ENTRY

Pick-up Order received by: [Signature]
(Signature of laboratory courier)

(Date/Time of pick-up) 11-17-06 14:22

Number of samples received intact: _____
(#/All)

Number of samples received broken: _____
(#/None)

Data package received by at CHPPM: Allerta Brown

Delivery Data: band carvid 12-11-06 @ 1445
(Means of Delivery - UPS/FedEx) Date

Note: A copy of this form must be completed and returned for each sample batch and respective sample data package.

Section II - Acodes Assigned to The Samples

Acodes Assigned		DLS Number	Field ID	Matrix	GAS1717	GAS2147	GAS2148	GAS2149	GAS2150	GAS2151	GAS2166
		23164001	434-SB-03-0618	SO	1	1	1	1	1	1	1
		23164002	434-SB-03-1830	SO	1	1	1	1	1	1	1
		23164003	434-SB-03-3042	SO	1	1	1	1	1	1	1
		23164004	434-SB-04-0618	SO	1	1	1	1	1	1	1
		23164005	434-SB-04-1830	SO	1	1	1	1	1	1	1
		23164006	434-SB-04-3042	SO	1	1	1	1	1	1	1
		23164007	434-SB-05-0618	SO	1	1	1	1	1	1	1
		23164008	434-SB-05-1830	SO	1	1	1	1	1	1	1
		23164009	434-SB-05-3042	SO	1	1	1	1	1	1	1
		23164010	12-SB-01-1830	SO	1	1	1	1	1	1	1
		23164011	12-SB-02-1830	SO	1	1	1	1	1	1	1
		23164012	12-SB-03-1830	SO	1	1	1	1	1	1	1
		23164013	12-SB-03A-1830	SO	1	1	1	1	1	1	1

C-241

Section III - Acode Descriptions / Matrix Code Descriptions

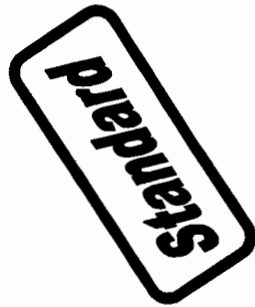
Acodes on the Report		Matrix types included in this Report	
ACODE	ACODE Description	Matrix	Quantity
GAS2166	Molybdenum (Mo)	SO	13
GAS2151	Procedure Description Lead (Pb)	EPA 6020	13
GAS2150	Procedure Description Cadmium (Cd)	EPA 6020	13
GAS2148	Procedure Description Chromium (Cr)	EPA 6020	13
GAS2147	Procedure Description Arsenic (As)	EPA 6020	13
	Procedure Description	EPA 6020	13

GAS1717	%Moisture	13
	Procedure Description	EPA 160.3



U.S. Army Center for Health Promotion and Preventive Medicine
Directorate of Laboratory Sciences
Aberdeen Proving Ground, MD 21010-5403
<http://chppm-www.apgea.army.mil/dls>

Battal 1898



Chain Of Custody (COC)

PO 211 PO1

This Chain of Custody is an Addendum to the Original COC submitted on 11-15-06 to SML. This is SML's internal Chain of Custody.

Profile: 32204 - 0606	Description: Camp Pedricktown-32204
Workorder #: 23164	Workorder ID: 0606320
Queue: GAS	Customer: Program 38
Location: Camp Pedricktown	POC: Mr. David Jones
Jono: 77HR7E	Project Number: 38
Subjono: 0606	Notes: Mo will be added once the matrix is added to the acode. Aberkshire 11-16-06 06 Acode added to workorder Aberkshire 11-16-06
Turn Code: W020 20 Work days from receipt	

Total Containers: 13

Total Samples: 13

HSN	Container ID	Customer	Sample ID	Sample Type	Matrix	Temp (C)	Date/Time Received	Date/Time Collected	Sample Due Date
	23164001		434-SB-03-0618	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 12:50 PM	14-Dec-2006
ACodes:									
			GAS2147 : Arsenic (As)						
			GAS2151 : Lead (Pb)						
	23164002		434-SB-03-1830	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 12:50 PM	14-Dec-2006
ACodes:									
			GAS2147 : Arsenic (As)						
			GAS2166 : Molybdenum (Mo)						
	23164003		434-SB-03-3042	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 12:50 PM	14-Dec-2006
ACodes:									
			GAS2147 : Arsenic (As)						
			GAS2166 : Molybdenum (Mo)						
	23164004		434-SB-04-0618	SAMPLE	SO	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 01:30 PM	14-Dec-2006
ACodes:									
			GAS2147 : Arsenic (As)						
			GAS2166 : Molybdenum (Mo)						



Profile: 32204 - 0606
Workorder #: 23164
Queue: GAS

Description: Camp Pedricktown~32204
Workorder ID: 0606320
Customer: Program 38

23164005	23164005-2	434-SB-04-1830	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 01:30 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164006	23164006-2	434-SB-04-3042	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 01:30 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164007	23164007-2	434-SB-05-0618	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:00 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164008	23164008-2	434-SB-05-1830	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:00 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164009	23164009-2	434-SB-05-3042	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:00 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164010	23164010-2	12-SB-01-1830	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 02:55 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164011	23164011-2	12-SB-02-1830	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 03:10 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164012	23164012-2	12-SB-03-1830	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 03:30 PM	14-Dec-2006
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ACodes:
 GAS1717 : %Moisture
 GAS2151 : Lead (Pb)
 GAS2147 : Arsenic (As)
 GAS2166 : Molybdenum (Mo)
 GAS2148 : Chromium (Cr)
 GAS2150 : Cadmium (Cd)

23164013	23164013-2	12-SB-03A-1830	SAMPLE	SO	Soil	8.0	15-Nov-2006 09:30 AM	14-Nov-2006 03:30 PM	14-Dec-2006
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Profile: 32204 - 0606	Description: Camp Pedricktown~32204
Workorder #: 23164	Workorder ID: 0606320
Queue: GAS	Customer: Program 38

ACodes: GAS2147 : Arsenic (As) GAS2148 : Chromium (Cr) GAS2150 : Cadmium (Cd)
 GAS1717 : %Moisture GAS2166 : Molybdenum (Mo)
 GAS2151 : Lead (Pb)

Total Samples: 13 Total Containers: 13

Samples Received By: <i>Alyson Berkshire</i>	Initials: <i>AB</i>	Date Received: <i>11-17-06 14:22</i>
Document Reviewed By: <i>Alyson Berkshire</i>	Initials: <i>AB</i>	Date Reviewed: <i>11-16-06</i>
Document Quality Review By: <i>Alyson Berkshire</i>	Initials: <i>AB</i>	Date Reviewed: <i>11-16-06</i>
Samples Approved For Distribution: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Date Approved: <i>11-16-06</i>

Received: *Alyson Berkshire 11/17/06*

Custody



Profile: 32204 - 0606	Description: Camp Pedricktown-32204
Workorder #: 23164	Workorder ID: 0606320
Queue: GAS	Customer: Program 38

CHAIN OF CUSTODY RECORD

HSN	Customer Sample Id	Container Id	Mx	HSN	Customer Sample Id	Container Id	Mx
23164001	434-SB-03-0618	23164001-2	SO	23164002	434-SB-03-1830	23164002-2	SO
23164003	434-SB-03-3042	23164003-2	SO	23164004	434-SB-04-0618	23164004-2	SO
23164005	434-SB-04-1830	23164005-2	SO	23164006	434-SB-04-3042	23164006-2	SO
23164007	434-SB-05-0618	23164007-2	SO	23164008	434-SB-05-1830	23164008-2	SO
23164009	434-SB-05-3042	23164009-2	SO	23164010	12-SB-01-1830	23164010-2	SO
23164011	12-SB-02-1830	23164011-2	SO	23164012	12-SB-03-1830	23164012-2	SO
23164013	12-SB-03A-1830	23164013-2	SO				



Profile: 32204 - 0606	Description: Camp Pedricktown-32204
Workorder #: 23164	Workorder ID: 0606320
Queue: GAS	Customer: Program 38

SAMPLE DISPOSAL RECORD

HSN	Date Of Disposal	Number Of Containers	Signature	Remarks
	23164001	1		
	23164002	1		
	23164003	1		
	23164004	1		
	23164005	1		
	23164006	1		
	23164007	1		
	23164008	1		
	23164009	1		
	23164010	1		
	23164011	1		
	23164012	1		
	23164013	1		

Total Samples: 13 **Total Containers:** 13

Cooler Receipt Form

Number of Coolers Received: 1
 Client: USACHPPM
 Form Completed By: SEA

Receipt Date / Time: 11/17/06 15:54
 Work Order # _____

Shipper: Microbac Client UPS FedEx Courier
Waybill Number: _____

Exterior Inspection:
Shipping Container Type: Cooler Box Other None
Condition: Intact Broken / Not-applicable **Custody Tape Intact:** Yes No / Not applicable

Interior Inspection:	Interior Inspection:
Chain of Custody: <u>983</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Number: _____ Samples received on ice or refrigerated: From client: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA From MLI. (Field Op's): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Temperature Blank <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If present, temperature <u>0.7</u> °C If not, record surface temp. (IR) _____ °C Radiation Scan: <input checked="" type="checkbox"/> Negative _____ mR/hr Coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None Number of Samples: <u>13</u> Type/ Number of Containers: <u>13 - 4oz</u> <u>glass</u> Sample Bottle IDs agree with COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Incomplete / missing labels? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type of Samples: <input type="checkbox"/> Water <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Wipes <input type="checkbox"/> Oil <input type="checkbox"/> Filter <input type="checkbox"/> Sludge <input type="checkbox"/> Swabs <input type="checkbox"/> Food <input type="checkbox"/> Other _____ Containers: Any Broken? Yes <input checked="" type="checkbox"/> No Damaged/missing Custody Seal? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA Headspace in container? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA If Yes, see reverse Not Checked Preservation requirements met? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Checked If No, see reverse	Chain of Custody: _____ Yes No Cooler Number: _____ Samples received on ice or refrigerated: From client: _____ Yes No NA From MLI. (Field Op's): _____ Yes No NA Temperature Blank _____ Yes No If present, temperature _____ °C If not, record surface temp. (IR) _____ °C Radiation Scan: <input type="checkbox"/> Negative _____ mR/hr Coolant: <input type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None Number of Samples: _____ Type/ Number of Containers: _____ Sample Bottle IDs agree with COC: Yes No Incomplete / missing labels? Yes No Type of Samples: <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Wipes <input type="checkbox"/> Oil <input type="checkbox"/> Filter <input type="checkbox"/> Sludge <input type="checkbox"/> Swabs <input type="checkbox"/> Food <input type="checkbox"/> Other _____ Containers: Any Broken? Yes No Damaged/missing Custody Seal? Yes No NA Headspace in container? Yes No NA If Yes, see reverse Not Checked Preservation requirements met? Yes No If No, see reverse Not Checked

Container Types: A (300ml plastic) B (1000ml plastic) C (1000ml glass) CC (4oz plastic w/m) D (1000ml glass amber) E (4oz glass amber) F (4 oz sterile w/m cup) H (½ gallon plastic) J (2½ Gallon Glass Jar-"Pickle Jar") K (4oz glass) L (20ml glass) M (16oz glass) S (4oz sterile polypropylene) SN (300ml sterile nalgene) V (40ml VOA vial) W (1000 ml wide mouth glass amber)

Notes:

1. Unpreserved samples are normally not checked unless requested by a client.
2. Oil & grease (O&G) and Total Petroleum Hydrocarbon (TPH) samples are checked at the time of analysis in the laboratory.
3. Samples will be checked at time of analysis for preservation / headspace for applicable organic, inorganic and microbiological analysis.
4. Hold IR Thermometer on even surface about 4" from sample-to-take temperature. Apply correction factor.

Appendix of SOP SIM-001 Black/Blue
 X:\CS\FIELD OPS\FORMS\Cooler Receipt Form 11.06.06

Sample Acceptance & Noncompliance Form

Form Initiated By: STA
 Client: USACHppm

Date: 11-17-06

Container Type / Quantity:

- A - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - B - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - C - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - CC- Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - D - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - E - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - H - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - J - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - K - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - L - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - M - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - W - Unpreserved H2SO4 HNO3 HCl NaOH Other()
 - V - Unpreserved HCl HCl / ASC HCl / NaTHIO (Checked at time of Analysis)
 - F - Unpreserved NaTHIO (Checked at time of Analysis)
 - S - Unpreserved NaTHIO (Checked at time of Analysis)
 - SN- Unpreserved NaTHIO NaTHIO/EDTA (Checked at time of Analysis)
- 4oz plastic* 13 Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()
- Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()
- Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()
- Unpreserved H2SO4 - HNO3 - HCl - NaOH - Other()

Describe preservation requirements not met:

All Acid preserved <2 pH	NaOH preserved >12 pH	All others >2 and <10 (usually 4-8)
Sample ID: _____	H ₂ SO ₄ HNO ₃ NaOH _____	mls added _____
Sample ID: _____	H ₂ SO ₄ HNO ₃ NaOH _____	mls added _____
Sample ID: _____	H ₂ SO ₄ HNO ₃ NaOH _____	mls added _____
Sample ID: _____	H ₂ SO ₄ HNO ₃ NaOH _____	mls added _____
Sample ID: _____	H ₂ SO ₄ HNO ₃ NaOH _____	mls added _____

H₂SO₄ - Sulfuric Acid, HNO₃ - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____

Comments: _____



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CASE NARRATIVE

Microbac Laboratories, Inc., Gascoyne Division

Report Number: 0611481

December 8, 2006

Report To: U.S. Army Center for Health Promotion and
Preventive Medicine (USACHPPM)
Aberdeen Proving Ground, MD 21010-5422
Contract #W91ZLK-05-C-0025

page 1 of 1

Metals

Pick-Up Order: 211/1

Date Sample Received: 11/17/06

Sample Number: 23164001-23164013

Matrix: Solid

Thirteen samples were transported to Microbac Laboratories, Inc., Gascoyne Division via laboratory courier and were relinquished to lab personnel in the sample control department for log-in. The sample containers were checked and were noted to be in satisfactory.

Requested test parameters performed by Microbac Laboratories, Inc., Gascoyne Division:

- Metals analysis, using EPA SW-846 methodology

References:

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Office of Solid Waste and Emergency Response, USEPA, Wash.,DC, November 1986; Final Update I, July 1992 Final Update II, September 1994 Final Update III, December 1996.

All laboratory quality control parameters were met with the following exceptions:

- 1) Molybdenum Laboratory Control Sample (LCS) recovery was below the lower acceptance limit (low bias). The batch matrix spike and matrix spike duplicate recoveries were acceptable. All results were flagged..

Enclosed are the following:

1. Report of Analysis (original plus one copy)
2. Cooler Receipt Form (one copy)
3. Pick-Up Order/Delivery Order (original plus one copy)
4. Laboratory Chronicle / Case Narrative (original plus one copy)
5. Quality Control Summary Report (original plus one copy)
6. Raw data (one copy)

Microbac Laboratories, Inc., Gascoyne

Tessie A. Gamber
Quality Assurance Officer



Microbac Laboratories, Inc. Gascoyne Division

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CERTIFICATE OF ANALYSIS

USACHPPM-Metals
Contract #W91ZLK-05-C-0025
Bldg E2100, Rm 201
APG, MD 21010-5422
Attn: Heidi Taylor

Page 1

Report No. 0611481

This report of analysis contains test results for samples received at Microbac Laboratories, Inc., Gascoyne Division on 11/17/2006 .

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Terms and Conditions [Attachment]
- Case Narrative [Attachment]
- QC Report [Attachment]
- Chain of Custody [Attachment]
- Cooler Receipt Report [Attachment]

This Report of Analysis Contains 15 Pages plus Attachment(s)

12/8/2006

Final report reviewed by:

Michael D. Arbaugh, Sr./Division Manager

Report issue date

All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operation Officer, at rmorgan@microbac.com

Microbac Laboratories, Inc. Gascoyne Division- laboratory accreditations: MD 109, VA 00152, NJ MD637, PA 68-339, NY 11158, ISO 17025, NELAC, AIHA 100491. The data and information on this, and other accompanying documents, represents only the sample(s) analyzed and is not to be reproduced wholly or in part for advertising or other purposes without written approval from the laboratory. Organics Qualifiers: (U) analyzed for but not detected; (J) estimated value, below the reporting limit but above one-half the reporting limit; (B) detected in the associated method blank; (D) reanalyzed at a higher dilution factor. Inorganics Qualifiers: (U) analyzed for but not detected; (B) estimated value, below the reporting limit but above one-half the reporting limit. A copy of COC is attached.



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Gascoyne Division

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Sample Summary

Page 2

Project: 32204-0606

Report No: 0611481

Date Received 11/17/2006

Client Sample ID	Lab Sample ID	Matrix	Collection Date	Collection Time
23164001 434-SB-03-0618	0611481-001A	Soil	11/14/2006	12:50
23164002 434-SB-03-1830	0611481-002A	Soil	11/14/2006	12:50
23164003 434-SB-03-3042	0611481-003A	Soil	11/14/2006	12:50
23164004 434-SB-04-0618	0611481-004A	Soil	11/14/2006	13:30
23164005 434-SB-04-1830	0611481-005A	Soil	11/14/2006	13:30
23164006 434-SB-04-3042	0611481-006A	Soil	11/14/2006	13:30
23164007 434-SB-05-0618	0611481-007A	Soil	11/14/2006	14:00
23164008 434-SB-05-1830	0611481-008A	Soil	11/14/2006	14:00
23164009 434-SB-05-3042	0611481-009A	Soil	11/14/2006	14:00
23164010 12-SB-01-1830	0611481-010A	Soil	11/14/2006	14:55
23164011 12-SB-02-1830	0611481-011A	Soil	11/14/2006	15:10
23164012 12-SB-03-1830	0611481-012A	Soil	11/14/2006	15:30
23164013 12-SB-03A-1830	0611481-013A	Soil	11/14/2006	15:30



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Test Results

Page 3

Client:	USACHPPM-Metals	Client Sample ID:	23164001 434-SB-03-0618
Report No:	0611481	Lab ID:	0611481-001
Project:	32204-0606	Collection Date:	11/14/2006 12:50
Matrix:	SOIL		

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	180	0.43	mg/Kg-dry	12/6/2006	14:51
Cadmium	0.20	0.11	mg/Kg-dry	12/6/2006	14:51
Chromium	12	0.53	mg/Kg-dry	12/6/2006	14:51
Lead	83	0.43	mg/Kg-dry	12/6/2006	14:51
Molybdenum	< 1.1	1.1	mg/Kg-dry	12/6/2006	14:51

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	11	0.050	wt%	11/24/2006	14:20
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Test Results

Page 4

Client:	USACHPPM-Metals	Client Sample ID:	23164002 434-SB-03-1830
Report No:	0611481	Lab ID:	0611481-002
Project:	32204-0606	Collection Date:	11/14/2006 12:50
Matrix:	SOIL		

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	190	0.43	mg/Kg-dry	12/6/2006 14:55
Cadmium	0.66	0.11	mg/Kg-dry	12/6/2006 14:55
Chromium	16	0.54	mg/Kg-dry	12/6/2006 14:55
Lead	210	0.43	mg/Kg-dry	12/6/2006 14:55
Molybdenum	1.2	1.1	mg/Kg-dry	12/6/2006 14:55

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	14	0.050	wt%	11/24/2006 14:20
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Test Results

Page 5

Client:	USACHPPM-Metals	Client Sample ID:	23164003 434-SB-03-3042
Report No:	0611481	Lab ID:	0611481-003
Project:	32204-0606	Collection Date:	11/14/2006 12:50
Matrix:	SOIL		

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	87	0.41	mg/Kg-dry	12/6/2006 15:00
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 15:00
Chromium	8.4	0.51	mg/Kg-dry	12/6/2006 15:00
Lead	5.5	0.41	mg/Kg-dry	12/6/2006 15:00
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 15:00

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	8.5	0.050	wt%	11/24/2006 14:20
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Test Results

Page 6

Client:	USACHPPM-Metals	Client Sample ID:	23164004 434-SB-04-0618
Report No:	0611481	Lab ID:	0611481-004
Project:	32204-0606	Collection Date:	11/14/2006 13:30
Matrix:	SOIL		

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	34	0.42	mg/Kg-dry	12/6/2006 15:04
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 15:04
Chromium	9.7	0.52	mg/Kg-dry	12/6/2006 15:04
Lead	47	0.42	mg/Kg-dry	12/6/2006 15:04
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 15:04

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	10	0.050	wt%	11/24/2006 14:20
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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23164005 434-SB-04-1830
Report No:	0611481	Lab ID:	0611481-005
Project:	32204-0606	Collection Date:	11/14/2006 13:30
Matrix:	SOIL		

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	68	0.43	mg/Kg-dry	12/6/2006 15:09
Cadmium	< 0.11	0.11	mg/Kg-dry	12/6/2006 15:09
Chromium	8.7	0.54	mg/Kg-dry	12/6/2006 15:09
Lead	49	0.43	mg/Kg-dry	12/6/2006 15:09
Molybdenum	< 1.1	1.1	mg/Kg-dry	12/6/2006 15:09

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	11	0.050	wt%	11/24/2006 14:20
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Test Results

Page 8

Client:	USACHPPM-Metals	Client Sample ID:	23164006 434-SB-04-3042
Report No:	0611481	Lab ID:	0611481-006
Project:	32204-0606	Collection Date:	11/14/2006 13:30
Matrix:	SOIL		

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	77	0.43	mg/Kg-dry	12/6/2006 15:14
Cadmium	< 0.11	0.11	mg/Kg-dry	12/6/2006 15:14
Chromium	10	0.54	mg/Kg-dry	12/6/2006 15:14
Lead	3.8	0.43	mg/Kg-dry	12/6/2006 15:14
Molybdenum	< 1.1	1.1	mg/Kg-dry	12/6/2006 15:14

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	12	0.050	wt%	11/24/2006 14:20
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Gascoyne Division

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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23164007 434-SB-05-0618
Report No:	0611481		
Project:	32204-0606	Lab ID:	0611481-007
Matrix:	SOIL	Collection Date:	11/14/2006 14:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B Prep. Date: 12/4/2006 8:11:00 AM Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	15	0.40	mg/Kg-dry	12/6/2006 15:36
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 15:36
Chromium	7.4	0.50	mg/Kg-dry	12/6/2006 15:36
Lead	23	0.40	mg/Kg-dry	12/6/2006 15:36
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 15:36

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA Prep. Date: NA Prep Analyst NA

PMOIST	7.6	0.050	wt%	11/24/2006 14:20
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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23164008 434-SB-05-1830
Report No:	0611481		
Project:	32204-0606	Lab ID:	0611481-008
Matrix:	SOIL	Collection Date:	11/14/2006 14:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B Prep. Date: 12/4/2006 8:11:00 AM Prep Analyst: EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	13	0.42	mg/Kg-dry	12/6/2006 15:41
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 15:41
Chromium	7.7	0.52	mg/Kg-dry	12/6/2006 15:41
Lead	20	0.42	mg/Kg-dry	12/6/2006 15:41
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 15:41

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA Prep. Date: NA Prep Analyst: NA

PMOIST	8.8	0.050	wt%	11/24/2006 14:20
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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23164009 434-SB-05-3042
Report No:	0611481		
Project:	32204-0606	Lab ID:	0611481-009
Matrix:	SOIL	Collection Date:	11/14/2006 14:00

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B Prep. Date: 12/4/2006 8:11:00 AM Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	2.5	0.42	mg/Kg-dry	12/6/2006 15:45
Cadmium	< 0.11	0.11	mg/Kg-dry	12/6/2006 15:45
Chromium	7.3	0.53	mg/Kg-dry	12/6/2006 15:45
Lead	4.9	0.42	mg/Kg-dry	12/6/2006 15:45
Molybdenum	< 1.1	1.1	mg/Kg-dry	12/6/2006 15:45

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA Prep. Date: NA Prep Analyst NA

PMOIST	10	0.050	wt%	11/24/2006 14:20
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Test Results

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Client: USACHPPM-Metals Client Sample ID: 23164010 12-SB-01-1830
 Report No: 0611481
 Project: 32204-0606 Lab ID: 0611481-010
 Matrix: SOIL Collection Date: 11/14/2006 14:55

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
ICP/MS METALS, TOTAL (SW846 6020)				
Analyst: PRM				
Prep. Method: EPA 3050B				
Prep. Date: 12/4/2006 8:11:00 AM				
Prep Analyst: EDP				
<i>note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).</i>				
Arsenic	1.8	0.42	mg/Kg-dry	12/6/2006 15:50
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 15:50
Chromium	7.5	0.52	mg/Kg-dry	12/6/2006 15:50
Lead	11	0.42	mg/Kg-dry	12/6/2006 15:50
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 15:50
MOISTURE CONTENT (DRIED AT 105°C)				
Analyst: RED				
Prep. Method: NA				
Prep. Date: NA				
Prep Analyst: NA				
PMOIST	11	0.050	wt%	11/24/2006 14:20



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Test Results

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Client: USACHPPM-Metals Client Sample ID: 23164011 12-SB-02-1830
 Report No: 0611481
 Project: 32204-0606 Lab ID: 0611481-011
 Matrix: SOIL Collection Date: 11/14/2006 15:10

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	2.4	0.42	mg/Kg-dry	12/6/2006 15:54
Cadmium	< 0.11	0.11	mg/Kg-dry	12/6/2006 15:54
Chromium	8.2	0.53	mg/Kg-dry	12/6/2006 15:54
Lead	7.9	0.42	mg/Kg-dry	12/6/2006 15:54
Molybdenum	< 1.1	1.1	mg/Kg-dry	12/6/2006 15:54

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	9.8	0.050	wt%	11/24/2006 14:20
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Test Results

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Client: USACHPPM-Metals **Client Sample ID:** 23164012 12-SB-03-1830
Report No: 0611481
Project: 32204-0606 **Lab ID:** 0611481-012
Matrix: SOIL **Collection Date:** 11/14/2006 15:30

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B

Prep. Date: 12/4/2006 8:11:00 AM

Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	2.7	0.42	mg/Kg-dry	12/6/2006 15:59
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006 15:59
Chromium	11	0.52	mg/Kg-dry	12/6/2006 15:59
Lead	6.8	0.42	mg/Kg-dry	12/6/2006 15:59
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006 15:59

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

PMOIST	9.5	0.050	wt%	11/24/2006 14:20
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Test Results

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Client:	USACHPPM-Metals	Client Sample ID:	23164013 12-SB-03A-1830
Report No:	0611481		
Project:	32204-0606	Lab ID:	0611481-013
Matrix:	SOIL	Collection Date:	11/14/2006 15:30

Analyses	Test Results	Reporting Limit	Units	Date/Time Analyzed
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ICP/MS METALS, TOTAL (SW846 6020)

Analyst: PRM

Prep. Method: EPA 3050B Prep. Date: 12/4/2006 8:11:00 AM Prep Analyst EDP

note: Molybdenum result is estimated due to LCS recovery (71.4%) out of acceptance limits (79.2-120.8%).

Arsenic	2.8	0.41	mg/Kg-dry	12/6/2006	16:04
Cadmium	< 0.10	0.10	mg/Kg-dry	12/6/2006	16:04
Chromium	11	0.51	mg/Kg-dry	12/6/2006	16:04
Lead	7.0	0.41	mg/Kg-dry	12/6/2006	16:04
Molybdenum	< 1.0	1.0	mg/Kg-dry	12/6/2006	16:04

MOISTURE CONTENT (DRIED AT 105°C)

Analyst: RED

Prep. Method: NA Prep. Date: NA Prep Analyst NA

PMOIST	9.5	0.050	wt%	11/24/2006	14:20
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MICROBAC LABORATORIES, INC., GASCOYNE DIVISION

QC SUMMARY REPORT

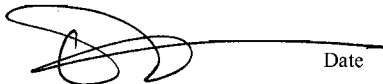
12/8/2006

Company: USACHPPM-Metals

Report No: 0611446 + 0611481

Project: 32197-0606

	Sample Type	Spike Value	Results	Units	REC (%)	RPD (%)	RPD Limit (%)	Low Limit	High Limit	Sample		
Arsenic	DUP		4.261	mg/Kg-dry		2.95	20			0611446-001A DU	14168	14168
	DUP		4.888	mg/Kg-dry		10.8	20			0611446-001A DL	14168	
	LCS	142	149.1	mg/Kg	105			79.58	120.4	14168 12-4 6020 S	14168	
	MBLK		0.08035	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	53.5	mg/Kg-dry	104			70	130	0611446-001A MS	14168	14168
	MSD	47.73	54.64	mg/Kg-dry	105	2.12	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	107	mg/Kg-dry	108			75	125	0611446-001A PDS	14168	
Cadmium	DUP		< 0.10	mg/Kg-dry		0	20			0611446-001A DU	14168	14168
	DUP		< 0.52	mg/Kg-dry		0	20			0611446-001A DL	14168	
	LCS	64.5	66.72	mg/Kg	103			81.6	118.4	14168 12-4 6020 S	14168	
	MBLK		< 0.10	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	50.81	mg/Kg-dry	108			70	130	0611446-001A MS	14168	14168
	MSD	47.73	51.63	mg/Kg-dry	108	1.61	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	105.3	mg/Kg-dry	111			75	125	0611446-001A PDS	14168	
Chromium	DUP		13.92	mg/Kg-dry		7.97	20			0611446-001A DL	14168	
	DUP		10.64	mg/Kg-dry		18.8	20			0611446-001A DU	14168	14168
	LCS	86.5	95.63	mg/Kg	111			78.5	121.4	14168 12-4 6020 S	14168	
	MBLK		< 0.50	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	68.29	mg/Kg-dry	117			70	130	0611446-001A MS	14168	14168
	MSD	47.73	70.13	mg/Kg-dry	120	2.65	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	127.9	mg/Kg-dry	121			75	125	0611446-001A PDS	14168	
Lead	DUP		18.69	mg/Kg-dry		2.43	20			0611446-001A DL	14168	
	DUP		16.86	mg/Kg-dry		7.9	20			0611446-001A DU	14168	14168
	LCS	93.6	100.9	mg/Kg	108			80.6	119.7	14168 12-4 6020 S	14168	
	MBLK		0.1284	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	70.72	mg/Kg-dry	111			70	130	0611446-001A MS	14168	14168
	MSD	47.73	73.16	mg/Kg-dry	115	3.39	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	131.4	mg/Kg-dry	119			75	125	0611446-001A PDS	14168	
Molybdenum	DUP		1.189	mg/Kg-dry		0	20			0611446-001A DL	14168	
	DUP		0.4603	mg/Kg-dry		0	20			0611446-001A DU	14168	14168
	LCS	39	27.86	mg/Kg	71.4			79.2	120.8	14168 12-4 6020 S	14168	
	MBLK		0.08	mg/Kg						14168 12-4 6020 S	14168	
	MS	47.22	47.83	mg/Kg-dry	100			70	130	0611446-001A MS	14168	14168
	MSD	47.73	49.31	mg/Kg-dry	102	3.04	20	70	130	0611446-001A MS	14168	14168
	PDS	94.86	100.9	mg/Kg-dry	106			75	125	0611446-001A PDS	14168	

Reviewed By  Date 12/8/2006

Notes: MBLK: Method Blank PDS: Post Digestion/Distillation Spike MSD: Matrix Spike Duplicate DUP: Duplicate
 MS: Matrix Spike LCS(D): Laboratory Control Sample (Duplicate) RPD: Relative Percent Difference REC: Recovery
 ICB/ICV: Initial Calibration Blank(Verification Standard) CCB/CCV: Continuing Calibration Blank(Verification Standard)

APPENDIX D
GROUND-WATER SAMPLING LOGS
AND
EQUIPMENT CALIBRATION LOGS

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program**



**Pocket Meter Multiline P3
pH - Conductivity-Temperature
Calibration Assurance Form**

Manufacturer: **WTW Measurement Systems**
3170 Metro Parkway
Ft. Myers, Fl. 33916

Model: P3

Serial No. 0050019

MMCN: N/A

ID.#: LF-6

Lo Battery Indication No Yes, Replace Batteries Batteries Replaced No Yes, Proceed

pH Electrode Wet(After removing wetting cap) No, Replace electrode or soak in neutral buffer solution for 24 hours
 Yes, Proceed

pH Buffer Manufacturer: **WTW Measurement Systems**
3170 Metro Parkway
Ft. Myers, Fl. 33916

OR

OAKTON Instruments
P.O. Box 5136
Veron Hills, IL. 60061

OR

Geotech Environmental
8035 East 40th Ave
Denver, Co. 80207

pH 4 Buffer Solution: Expiration Date 30-Sep-07

Lot No. 5AH200

pH 7 Buffer Solution: Expiration Date 30-Aug-07

Lot No. 5AH175

pH 10 Buffer Solution: Expiration Date _____

Lot No. _____

pH Two Point Calibration

pH / Temperature Probe Model No: SENTIX41

pH Probe Serial No: L000801012

1st Pt. 1. Rinse pH Probe: 2. Set unit to pH mode and immerse in pH 7 Buffer Solution 3. Press Cal, then Run.

Calibration Reading 6.99 7.02 Adjusted Reading, Press Run -11. mV Admissible Asymmetry Range(+/-30mV)

2nd Pt. 1. Rinse pH Probe: 2. Set unit to pH mode and immerse in pH 4or10 Buffer Solution 3. Press Cal, then Run.

Calibration Reading 4.00 4.00 Adjusted Reading, Press Run -59.2 mV Slope
Admissible Slope Range (-50.0 mV/pH ... -62.0 mV/pH)

One Point Conductivity Calibration

Conductivity Cell Model No: Tetracon 325

Conductivity Cell Serial No: 02020425

Conductivity Control Standard Solution Manufacturer:

WTW Measurement Systems
3170 Metro Parkway
Ft. Myers, Fl. 33916

OR

OAKTON Instruments
P.O. Box 5136
Veron Hills, IL. 60061

OR

Geotech Environmental
8035 East 40th Ave
Denver, Co. 80207

Conductivity Control Standard Solution: Expiration Date 30-Feb-07

Lot No: 2602119

1. Rinse Conductivity Cell

2. Set unit to Conductivity measurement

3. Immerse in Control Standard Solution (0.01 mol/L KCL)
(1413µmhos)

4. Press Cal, then Run

5. Record Cell Constant 0.472 (Acceptable 0.475/cm +/-0.025 /cm)

Temperature Calibration

NIST Traceable Certified Thermometer Serial No. SA273

Calibration Void: 18-Jul-09

Certified By: **U.S. Army**

Test Measurement and Diagnostic Equipment Support Center
Electrical Standards Laboratory (Bldg. 2482) - Aberdeen Proving Ground, Md.

1. Set measuring mode to pH.

2. Place pH probe in distilled water or buffer solution along with thermometer
(Wait for a stable reading)

3. Record Probe Reading 21.2
(Admissible Range +/- 1 digit)

4. Record Thermometer Reading 21.0

Technicians Signature: Mark Farrow

Date: 12/4/06

U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program



Pocket Meter Multiline P3
REDOX and DISSOLVED OXYGEN METER
Calibration Assurance Form

Manufacturer: WTW Measurement Systems
3170 Metro Parkway
Ft. Myers, Fl. 33916

Model: P3

Serial No. 99240035

MMCN: N/A

ID.#: LF-6

Lo Battery Indication No Yes, Replace Batteries Batteries Replaced No Yes, Proceed

REDOX Probe Information

ORP Probe Model No: Pt 4805 / S7

ORP Probe Serial No: B004704011

REDOX Buffer Solution Manufacturer: Mettler Toledo GmbH
ProzeBanalytik
D-61449, Steinbach

REDOX Buffer Solution: Expiration Date 30-Apr-07

Lot No: 109740

1. Set measuring mode to the Redox mV function.

Redox Buffer Voltage 220 mV & Temperature Value of Redox Buffer 226.5
(Both From Bottle Data)

1. Probe full of electrolyte No, Refill w/ KCL Solution Yes, Proceed

2. Rinse probe, (NEVER WIPE DRY)

4. Immerse probe in redox buffer solution.
(Wait for stability)

Calibration Reading 220 mV
(Acceptable Range +/- 30mV)

Dissolved Oxygen Calibration

Dissolved Oxygen Probe Model No: CELLOX 325

Dissolved Oxygen Probe Serial No: 00170226

Probe Recalibration Indicator Flashing No, Proceed Yes, Perform Recalibration

1. Set measuring mode to dissolved oxygen.

2. Remove sensor from air chamber and moisten sponge

3. Seal probe in air chamber, Press Cal then Run.

4. Record relative slope of the probe 1.24
(Admissible Range 0.6-1.25)

Technicians Signature: Mark Fano

Date: 12/4/06

U.S. Army Center for Health Promotion and Preventive Medicine						
Ground Water and Solid Waste Program						
		Pocket Meter Multiline P3				
pH - Conductivity - Temperature - Dissolved Oxygen - Redox						
On-site Field Check Form						
PROJECT: <u>CAMP PEDREEK TOWN</u>						
Manufacturer: WTW Measurement Systems		Model: P3		Serial No. <u>0050019</u>		MMCN: <u>N/A</u>
3170 Metro Parkway						ID.#: <u>LF-6</u>
Ft. Myers, Fl. 33916						
Lo Battery Indication <input checked="" type="checkbox"/> No, Proceed Yes, Replace Batteries > Batteries Replaced <input checked="" type="checkbox"/> No, Use Alternate Unit Yes, Proceed						
From pH Mode, Flashing pH Electrode On Display <input checked="" type="checkbox"/> No, proceed Yes, Recalibrate Unit						
pH Electrode Wet (After removing wetting cap) <input type="checkbox"/> No, Replace electrode or soak in neutral buffer solution for 24 hours						
<input checked="" type="checkbox"/> Yes, Proceed						
Note: Check Bottle For Temperature Correction Readings						+/- 10% Reading Is Acceptable
	pH 4 Buffer	pH 7 Buffer	Optional	Temperature		Tech
Date	Reading	Reading	pH 10 Buffer Reading	Check	Comments	Initials
12-13-06	3.99	6.98		✓		MEH
12-14-06	3.93	6.94		✓		MEH
12-15-06	3.94	6.94		✓		MEH
Conductivity Check						
						+/- 10% Reading Is Acceptable
	Optional	Recommended	Optional			Tech
	Low Standard	Standard	High Standard			Initials
	84 µS/cm	1413 µS/cm	8974 µS/cm			
Date	Reading	Reading	Reading		Comments	
12-13-06		1438				MEH
12-14-06		1463				MEH
12-15-06		1460				MEH
Manufacturer: WTW Measurement Systems						
3170 Metro Parkway		Model: P3		Serial No. <u>99240035</u>		MMCN: <u>N/A</u>
Ft. Myers, Fl. 33916						ID.#: <u>LF-6</u>
Redox Check						
Probe full of electrolyte <input type="checkbox"/> No, Refill w/ KCL Solution <input checked="" type="checkbox"/> Yes, Proceed						
Note: Check Bottle For Temperature Correction Readings						+/- 10% Reading Is Acceptable
	Temperature	Corrected	Actual Probe			Tech
Date	Reading	Reading	Reading		Comments	Initials
12-13-06	23.0°C	220	217			MEH
12-14-06	20.2°C	245	249			MEH
12-15-06	25.0°C	220	212			MEH
Dissolved Oxygen Check						
Remove sensor from air chamber and moisten sponge (20 - 75% approx) <input checked="" type="checkbox"/>						
Seal probe in air chamber <input checked="" type="checkbox"/> Wait a minimum 1 minute before taking a reading <input checked="" type="checkbox"/>						
Record <u>98</u> % of moisture in chamber If % of moisture is not given perform a calibration.						
12-14-06	<u>72%</u>	12/15 =	<u>90%</u>			
Notes:						

U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Turbidimeter Calibration Log



Instrument Information:

Manufacturer: La Motte Company, Chestertown, MD
 Serial Number: 0866-3898

Model No.: 2020

Calibration Fluid Information:

Standard A: 1.0
 Manufacturer: La Motte
 Lot No.: P569373

Exp. Date: SEPT 2007

Standard B: 10
 Manufacturer: La Motte
 Lot No.: P569374

Exp. Date: SEPT 2007

Standard C: 40.0
 Manufacturer: ORBECO-HELLICE
 Lot No.: 95465 / R4095

Exp. Date: MAR 2007

Calibration Data:

Date	Time	Battery Check	Standard A Calibration	Standard B Calibration	Standard C Calibration	Technician Initial	Comments
3 Oct 06	0600	✓	1.0	10.0	40	GDW	
12/4/06	1000	✓	1.0	10.0	40.0	MEFH	Adjusted upper range
12/13/06	1200	✓	1.0	10.0	40.0	MEFH	
12/14/06	0745	✓	0.95	9.2	40.0	MEFH	
12/15/06	0730	✓	1.0	9.3	38.0	MEFH	

Field Checks:

Date	Time	Battery Check	Standard A Reading	Standard B Reading	Standard C Reading	Technician Initial	Comments



Global Water

INSTRUMENTATION, INC.

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International Phone: 916-638-3429

Fax: 916-638-3270

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GP SUBMERSIBLE GROUNDWATER PUMPS

Ground water pump for water testing

FEATURES:

- Used and trusted within the groundwater industry for more than 15 years
- Recommended by drillers, hydrologists and field technicians
- Practical for dedicated use and disposal
- Reduces labor costs and saves time

To Order Call 1-800-876-1172
Submersible Groundwater Pumps Options & Prices



On this page:	Downloads (PDF):	Additional Information:
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Product Description

Global Water's groundwater pumps provide an easy-to-use, high-quality, economical solution for purging, ground water testing, and well development to a depth of 60ft (18m). The submersible ground water pump's 1 5/8" (40mm) diameter minimizes well hang ups and is ideal for use in 2" or larger monitoring wells. Each groundwater pump is self priming when fully submersed and can be connected directly to a DC power source to begin pumping. All ground water pumps are tough and powerful with plastic construction and a stainless steel impeller. The groundwater pumps can pump up to 3 US gallons (11.4 ltrs) per minute. These ground water pumps have been used and trusted within the groundwater industry for more than 15 years and are recommended by drillers, hydrologists and field technicians around the world.

The Submersible Groundwater Pumps have an inlet strainer and any sand, rocks or debris that pass through the groundwater pump's inlet strainer will pass through the pump without clogging it. The ground water pumps can be run continuously for 48 hours even in dry conditions without motor damage. The groundwater pump's life expectancy is approximately 400 hours, lab tests have shown that the groundwater pumps can last up to 750 hours. The submersible ground water pumps can achieve low flow sampling by restricting the outlet flow from the end of the sampling tube with a valve (or even by clamping the hose). Restricting the submersible groundwater pump's outlet flow will increase the effective head the groundwater pump has to deliver thus reducing output flow. Being a centrifugal ground water pump this action will also reduce the current thus making the ground water pump use less energy increasing battery life.

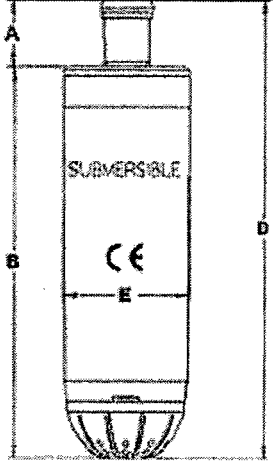
Specifications

Description Product Code:	Submersible 881 GP8815	Submersible 881 GP8825	Submersible 921 GP9216
Voltage:	12V DC	24V DC	12V DC
Recommended Fuse Size:	5 amp automotive	3 amp automotive	8 amp automotive
Hose Connections:	To suit 10mm or 13mm ($\frac{3}{8}$ " or $\frac{1}{2}$ ") Bore Flexible Hose		
Materials	ABS plastic, stainless steel, Nitrile		PC ABS Copolymer + PBT, stainless steel, Nitrile

Model	Current Draw	Output Performance (in gallons per minute) at Head (in ft)												
		0	5	10	15	20	25	30	35	40	45	50	55	60
GP8815*	1.4-3.1 Amp	3.5	3.0	2.3	1.9	1.3	0.7	0.2						
GP9216*	3.0-6.5 Amp	4.0	3.6	3.2	2.8	2.6	2.3	2.0	1.8	1.5	1.1	0.9	0.6	0.3

* Pumps attached with 37" of cable
Note. Tests carried out with $\frac{1}{2}$ " ID tubing

Submersible Pump Dimensions	A	B	D	E
881	21mm	97mm	118mm	36mm
	$\frac{13}{16}$ "	$3\frac{13}{16}$ "	$4\frac{5}{8}$ "	$1\frac{7}{16}$ "
921	25mm	141mm	166mm	40mm
	1"	$5\frac{11}{16}$ "	$6\frac{9}{16}$ "	$1\frac{9}{16}$ "



Options & Prices

GP8815B Super Submersible 881 groundwater pump	\$36
Centrifugal, 12 Volt, includes 3' of cable	
GP8825B Super Submersible 881 groundwater pump	\$33
Centrifugal, 24 Volt, includes 3' of cable	
GP9216B Super Submersible 921 groundwater	\$57

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN, NJ. Sample ID: 12-MW-02-GW Date: 12-13-06 Time: 1113
 Well Number: 12-MW-02 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 2 Reference Point: top of well casing OR top protective casing
 Water Level (WL): 5.29 Total Depth (TD): 13.83 Depth Pump Set: 12.5

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (SU)	Turbidity (NTU)
12-14-06	1600	300 ml	86.1	11.5	1.42	415	4.90	140
12/14	1605	1175	85.	11.4	1.46	415	4.92	120
12/14/06	1610	2050	82.	10.9	1.35	409	4.87	110
12-14-06	1615	2925	82	11.0	1.55	410	4.86	90
12-14-06	1620	3800	82	11.9	1.14	416	4.81	85
12-14-06	1625	4675	82	11.9	1.13	414	4.80	57
12-14-06	1630	5550	82	11.8	1.07	411	4.81	25
12-14-06	1635	6425	82	11.8	1.05	409	4.80	9.1

Well Sampling Data

Weather Conditions: FOGGY, 46°F, SLIGHT WIND 0-2 MPH
 Purge Date 12-14-06 Time: 1600 Technician's Signature: Mark Fann
 Purge Method: _____ bailer type: _____ pump type: CENTRIFUGAL
 other: _____ component material: PVC, ABS, STAINLESS STEEL, NITRILE
 Pump Model: White 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 12.5 Tubing Material FEP Avg. Flow Rate 175

Sample Date 12-14-06 Time: 1635 Technician's Signature: Mark Fann

Sample Collection Method: Same as Purge Method Yes No, fill in data below

Sample Collection Method: _____ bailer type: _____ pump type: CENTRIFUGAL
 other: _____ component material: _____
 Pump Model: _____ Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 12.5 Tubing Material FEP Avg. Flow Rate 175

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-CRO RE N/A
 Other: As Speciation

List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A

Sample preservation completed? Yes No Preserved by: Mark Fann

Sample Color: Clear Sample Odor: NONE

Comments:

Cooler IDs: #1 & #7 FedEx Tracking #s N/A

RE N/A

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data
 Installation: CAMP PEDRICKTOWN Sample ID: 12-MW-03-AW Date: 12-13-06 Time: 1120
 Well Number: 12-MW-03 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 2" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 5.03 Total Depth (TD): 14.33 Depth Pump Set: 13.0

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mv)	pH (su)	Turbidity (NTU)
12-14-06	1700	400 ml	66.0	13.9	2.75	425	4.97	120
12-14-06	1710	1100	68	14.2	2.42	430	4.88	150
12-14	1720	1400	68	14.2	2.36	427	4.84	75
12-14	1725	2500	68	14.3	2.35	425	4.85	30
12/14	1730	3200	69	14.7	2.35	428	4.85	25
12-14-06	1735	3900	69	14.5	2.36	428	4.86	18

Well Sampling Data
 Weather Conditions: FOGGY, 45°F, LIGHT BREEZE 0-3 MPH
 Purge Date 12-14-06 Time: 1700 Technician's Signature: J. F. [Signature]
 Purge Method: bailer type: pump type: CENTRIFUGAL
 other: component material: PVC, stainless steel, nitrite
 Pump Model: Whale 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 13.0 Tubing Material FEP Avg. Flow Rate 140.0 ml/min

Sample Date 12-14-06 Time: 1735 Technician's Signature: Mark of Faw
 Sample Collection Method: Same as Purge Method Yes No, fill in data below
 Sample Collection Method: bailer type: pump type: CENTRIFUGAL
 other: component material: PVC
 Pump Model: Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 13.0 Tubing Material FEP Avg. Flow Rate

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation
 List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A
 Sample preservation completed? Yes No Preserved by: J. F. [Signature]
 Sample Color: clear w/ brown tint Sample Odor: NONE

Comments: duplicate taken for SVOC (12-MW-03-AW-M3 & 12-MW-03-AW-M3D)
 Cooler IDs: codes #1 & #4 FedEx Tracking #s N/A

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDDICK TOWN, NJ Sample ID: 13-AW-01-GW Date: 12-13-06 Time: 1136
 Well Number: P13-MW01 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 2" Reference Point: k top of well casing OR top protective casing
 Water Level (WL): 5.35 Total Depth (TD): 15.37 Depth Pump Set: 14.0

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (su)	Turbidity (NTU)
12-14-06	1450	200 ml	165	14.7	2.66	391	5.88	70
12/14	1455	975	167	14.7	2.56	391	5.71	65
12/14	1500	1750	167	14.4	2.58	392	5.66	65
12-14-06	1505	2525	171	14.6	2.54	398	5.56	55
12-14-06	1510	3300	172	14.8	2.60	403	5.35	45
12-14-06	1515	4075	172	15.0	2.58	405	5.55	14
12-14-06	1520	4850	172	15.1	2.59	406	5.55	9.6
12/14/06	1525	5625	172	15.1	2.58	405	5.54	9.2
12/14/06	1535	7175	172	15.0	2.58	405	5.55	9.2

Well Sampling Data

Weather Conditions: 40°F, WINDS 2-5 MPH
 Purge Date 12-14-06 Time: 1450 Technician's Signature: Mark J. Fawcett

Purge Method: bailer type: centrifugal pump type: CENTRIFUGAL
 other: component material: PVC, STAINLESS STEEL, NITRILE
 Pump Model: WHALE 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 14.0 Tubing Material FEP Avg. Flow Rate 155 ml/min

Sample Date 12-14-06 Time: 1535 Technician's Signature: Mark J. Fawcett

Sample Collection Method: Same as Purge Method Yes No, fill in data below

Sample Collection Method: bailer type: pump type:
 other: component material:
 Pump Model: Pump S/N: Controller S/N:
 Depth Pump Set Tubing Material Avg. Flow Rate

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation

List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A

Sample preservation completed? Yes No Preserved by: Fawcett

Sample Color: clear Sample Odor: none

Comments:

Cooler IDs: #1 & #4 FedEx Tracking #s N/A

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN, NJ Sample ID: 413-NW-MWI-6 Date: 12-13-06 Time: 1056
 Well Number: 413-NW-MWI Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 4" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 4.33 Total Depth (TD): 15.90 Depth Pump Set: 14.0

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (SU)	Turbidity (NTU)
12-14-06	1020	500ml	394	12.4	2.95	369	6.14	17
12-14-06	1025	1350	394	13.0	2.68	361	6.17	18
12-14-06	1030	2200	395	13.7	2.51	361	6.19	10
12-14-06	1035	3050	394	13.7	2.48	358	6.22	9
12-14-06	1040	3900	395	13.6	2.77	352	6.22	8.9

Well Sampling Data

Weather Conditions: OVERCAST 49°F, LIGHT BREEZE 2-4 MPH
 Purge Date 12-14-06 Time: 1020 Technician's Signature: Mark Fano

Purge Method: bailer type: pump type: CENTRIFUGAL
 other: component material: PVC, STAINLESS STEEL, NITRILE
 Pump Model: 881 whale Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 14.0 Tubing Material FEP Avg. Flow Rate 170

Sample Date 12-14-06 Time: 1040 Technician's Signature: Mark Fano

Sample Collection Method: Same as Purge Method Yes No, fill in data below
 Sample Collection Method: bailer type: pump type: CENTRIFUGAL
 other: component material:
 Pump Model: Pump S/N: Controller S/N:
 Depth Pump Set Tubing Material FEP Avg. Flow Rate 170 ml/min

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation
 List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A
 Sample preservation completed? Yes No Preserved by: Fano
 Sample Color: CLEAR Sample Odor: NONE

Comments:
 Cooler IDs: #2, 6 + 7 FedEx Tracking #s N/A

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN, N.J. Sample ID: 413-MW-036W Date: 12-13-06 Time: 1027
 Well Number: 413-MW-03 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 2" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 5.37 Total Depth (TD): 11.99 Depth Pump Set: 10.50

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (su)	Turbidity (NTU)
12-14-06	1325	500ml/min	331	13.9	3.75	379	6.48	230
	1330	1200	330	13.7	3.55	374	6.53	170
	1335	1900	328	14.8	3.55	379	6.52	60
	1340	2600	323	14.7	3.56	375	6.50	30
	1345	3300	320	14.7	2.91	375	6.49	15
	1350	4000	317	15.0	3.10	375	6.46	9.2
	1355	4700	318	15.1	3.09	375	6.47	8.9

Well Sampling Data

Weather Conditions: FOGGY, 45°F, BREEZE 2-5 mph
 Purge Date 12-14-06 Time: 1325 Technician's Signature: [Signature]

Purge Method: bailer type: pump type: CENTRIFUGAL
 other: component material: PVC, STAINLESS STEEL, NITRILE
 Pump Model: WHALE 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 10.50 Tubing Material FEP Avg. Flow Rate 140

Sample Date 12-14-06 Time: 1355 Technician's Signature: [Signature]

Sample Collection Method: Same as Purge Method Yes No, fill in data below
 Sample Collection Method: bailer type: pump type:
 other: component material:
 Pump Model: Pump S/N: Controller S/N:
 Depth Pump Set Tubing Material Avg. Flow Rate

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation
 List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A
 Sample preservation completed? Yes No Preserved by: [Signature]
 Sample Color: Light ORANGE TINT Sample Odor: NONE

Comments:
 Cooler IDs: #1, 6, 7 FedEx Tracking #s N/A

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN, NJ Sample ID: 413-W-MW1-GW Date: 12-13-06 Time: 1107
 Well Number: 413-W-MW1 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 4" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 4.65 Total Depth (TD): 18.66 Depth Pump Set: 17.5

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (su)	Turbidity (NTU)
12-14-06	1125	300	218	14.8	4.43	370	5.94	3.3
12/14	1130	1000	219	14.6	3.52	372	5.81	3.3
12/14	1135	1700	221	14.8	3.54	365	5.73	3.4
12/14	1140	2400	222	14.9	3.50	368	5.72	2.3
12/14	1145	3100	223	14.9	3.53	367	5.70	1.8
12/14	1150	3800	223	14.9	3.54	367	5.71	1.8

Well Sampling Data

Weather Conditions: Fog + Overcast, winds 2-4 mph, 48°F
 Purge Date: 12-14-06 Time: 1125 Technician's Signature: [Signature]
 Purge Method: bailer type: pump type: CENTRIFUGAL
 other: component material: PVC, stainless steel, Nitri. 10
 Pump Model: White 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set: 17.5 Tubing Material: FEP Avg. Flow Rate: 140 ml/min

Sample Date: 12-14-06 Time: 1145 Technician's Signature: [Signature]

Sample Collection Method: Same as Purge Method Yes No, fill in data below
 Sample Collection Method: bailer type: pump type:
 other: component material:
 Pump Model: Pump S/N: Controller S/N:
 Depth Pump Set: Tubing Material: Avg. Flow Rate:

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation
 List filtered parameters: N/A Filtering Method: N/A
 Filter Size: N/A
 Sample preservation completed? Yes No Preserved by: [Signature]
 Sample Color: 1/2 PC Sample Odor: None

Comments: Duplicate TAKEN: (413-W-MW1A-GW) for VOC, TPH-DRO, sulfate, metals, TPH-GRO & SVOC
 Cooler IDs: #1, 3, 7 FedEx Tracking #s: N/A

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN, N.J. Sample ID: 413-MW-02-GW Date: 12-13-06 Time: 1036
 Well Number: 413-MW-02 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 2" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 4.15 Total Depth (TD): 11.75 Depth Pump Set: 10.5

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (su)	Turbidity (NTU)
12-14-06	0815	300	228.0	13.3	3.11	311	5.21	65
12/14	0820	1000	229	13.8	2.83	316	5.17	130
12/14	0825	1700	235	13.0	1.79	329	5.12	150
12/14	0830	2400	240	13.3	1.97	364	4.93	110
12-14-06	0835	3100	246	13.5	1.74	377	4.87	75
12-14-06	0840	3800	245	13.5	1.68	381	4.90	65
12/14	0845	4500	247	13.4	1.54	380	4.88	55
12/14	0850	5200	246	13.3	1.53	375	4.88	40
12/14	0855	5900	249	13.4	1.47	370	4.90	30
12/14	0900	6600	250	13.4	1.39	364	4.91	32
12/14	0905	7300	250	13.4	1.36	358	4.92	21
12/14	0915	8700	251	13.4	1.36	355	4.92	16
12/14/06	0925	10100	250	13.4	1.36	354	4.91	9

Well Sampling Data

Weather Conditions: Foggy 47°F
 Purge Date 12-14-06 Time: 0815 Technician's Signature: Mark Fium

Purge Method: _____ bailer type: _____ pump type: CENTRIFUGAL
 other: _____ component material: PVC, stainless steel, nitrile
 Pump Model: Whale 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 10.5 Tubing Material FEP Avg. Flow Rate 140ml/min

Sample Date 12-14-06 Time: 0925 Technician's Signature: Fium

Sample Collection Method: Same as Purge Method Yes No, fill in data below

Sample Collection Method: _____ bailer type: _____ pump type: _____
 other: _____ component material: _____
 Pump Model: _____ Pump S/N: _____ Controller S/N: _____
 Depth Pump Set _____ Tubing Material _____ Avg. Flow Rate _____

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation

List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A

Sample preservation completed? Yes No Preserved by: Fium

Sample Color: Light Orange tint Sample Odor: None

Comments: HCL 1:1 (Lot HA424006) Expired 8/27/05 MATREX SPIKE/MSD FOR VOC & TPH-GRO TAKEN
 Cooler IDs: #1, 3, 7 FedEx Tracking #s N/A

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN, N.J. Sample ID: N/A Date: 12-13-06 Time: 1130
 Well Number: MW 14-002 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 4" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 4.18 Total Depth (TD): 13.27 Depth Pump Set: N/A

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Celsius)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (SU)	Turbidity (NTU)
NO READINGS TAKEN								

Well Sampling Data

Weather Conditions: Foggy 45°F, BREEZE 2-5 MPH
 Purge Date N/A Time: N/A Technician's Signature: Mark O'Farrell

Purge Method: bailer type: _____ pump type: _____
 other: _____ component material: _____
 Pump Model: _____ Pump S/N: _____ Controller S/N: _____
 Depth Pump Set _____ Tubing Material _____ Avg. Flow Rate _____

Sample Date _____ Time: _____ Technician's Signature: _____

Sample Collection Method: Same as Purge Method Yes No, fill in data below

Sample Collection Method: bailer type: _____ pump type: _____
 other: _____ component material: _____
 Pump Model: _____ Pump S/N: _____ Controller S/N: _____
 Depth Pump Set _____ Tubing Material _____ Avg. Flow Rate _____

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/PETN Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation

List filtered parameters: _____ Filtering Method _____
 Filter Size: _____

Sample preservation completed? Yes No Preserved by: _____

Sample Color: _____ Sample Odor: _____

Comments:

Cooler IDs: _____ FedEx Tracking #s _____

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN N.J. Sample ID: 434-MW-04-GW Date: 12-13-06 Time: 1645
 Well Number: 434-MW-04 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 2" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 11.47 Total Depth (TD): 11.75 Depth Pump Set: 10.5

1146
RE
M.P.H.

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (Su)	Turbidity (NTU)
12-13-06	1645	200	324	14.1	6.87	347	6.65	90
12-13-06	1650	900	324	14.2	7.00	346	6.70	65
12-13-06	1655	1600	324	13.9	6.50	346	6.73	60
12-13-06	1700	2300	323	13.9	6.77	346	6.75	46
12-13-06	1705	3000	323	13.8	6.73	346	6.75	38
12-13-06	1710	3700	323	13.8	6.69	346	6.75	32
12-13-06	1715	4400	323	13.7	6.60	346	6.74	27
12/13	1720	5100	323	13.8	6.61	346	6.74	25
12/13/06	1725	5800	324	13.9	6.62	346	6.73	23

Well Sampling Data

Weather Conditions: 50°F, PARTLY SUNNY, WINDS 2-3mph
 Purge Date 12-13-06 Time: 1645 Technician's Signature: Mark Fann
 Purge Method: _____ bailer type: _____ pump type: CENTRIFUGAL
 other: _____ component material: PVC, Stainless steel, Nitrile
 Pump Model: WHIRE 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 10.5 Tubing Material FEP Avg. Flow Rate 140M/min

Sample Date 12-13-06 Time: 1725 Technician's Signature: Mark Fann
 1736

Sample Collection Method: Same as Purge Method Yes No, fill in data below

Sample Collection Method: _____ bailer type: _____ pump type: _____
 other: _____ component material: _____
 Pump Model: _____ Pump S/N: _____ Controller S/N: _____
 Depth Pump Set _____ Tubing Material _____ Avg. Flow Rate _____

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives/~~PCPN~~ Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation

List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A

Sample preservation completed? Yes No Preserved by: Fann

Sample Color: C/PAR w/ORANGE/Brown Tint Sample Odor: NONE

Comments:

Cooler IDs: # 2 & #5 FedEx Tracking #s N/A

RE
M.P.H.

**U.S. Army Center for Health Promotion and Preventive Medicine
Ground Water and Solid Waste Program
Ground Water Sampling Log**



Well Data

Installation: CAMP PEDRICKTOWN, N.J. Sample ID: 434-MW-03 GW Date: 12-13-06 Time: 1012
 Well Number: 434-MW-03 Well Locked: Upon arrival? Yes No
 Well Inside Diameter: 2" Reference Point: top of well casing OR top protective casing
 Water Level (WL): 6.75 Total Depth (TD): 11.66 Depth Pump Set: 10.5

Date	Time	Water Removed (gallons)	Conductivity (uS/cm)	Temperature (Centigrade)	Dissolved O ₂ (mg/l)	ORP (mV)	pH (SU)	Turbidity (NTU)	
12-13-06	1430	200 ml	234.0	13.7	2.82	189	6.26	650	
12-13	1435	900	233.0	13.8	2.81	189	6.28	500	
12-13	1440	1600	233.0	13.9	2.49	197	6.27	500	
12-13-06	1445	2300	232.0	13.9	2.60	201	6.27	240	
12-13-06	1450	3000	NO FLOW, NO READING TAKEN						
12-13	1500	3700	232.0	14.4	4.52	206	6.32	110	
12-13	1505	4400	231.0	14.0	3.85	207	6.31	80	
12-13-06	1510	5100	231.0	14.2	3.85	207	6.31	60	
12-13-06	1515	5800	229.0	13.9	3.10	206	6.29	55	
12-13-06	1520	6500	229.0	13.8	2.78	206	6.28	39	
12-13-06	1525	7200	229.0	13.7	2.63	205	6.28	34	
12-13-06	1530	7900	229.0	13.7	2.98	205	6.29	30	
12-13-06	1535	8600	229.0	13.8	3.00	208	6.28	28	
12-13-06	1545	9300	228	13.7	2.84	218	6.29	23	
12-13-06	1600	10000	224.0	13.9	2.90	224	6.27	10	

Well Sampling Data 1610 ¹⁰⁷⁰⁰ 219.0 13.8 3.00 226 6.27 85
 Weather Conditions: 48 F, CLOUDY, LIGHT BREEZE 1-3 MPH

Purge Date 12-13-06 Time: 1430 Technician's Signature: Mark Franco

Purge Method: _____ bailer type: _____ pump type: CENTRIFUGAL
 other: _____ component material: PVC stainless steel, Nitride
 Pump Model: WHALE 881 Pump S/N: N/A Controller S/N: N/A
 Depth Pump Set 10.5 Tubing Material FEP Avg. Flow Rate 100 ml/min
HAD TO CHANGE RATE AT 1450 THROUGH

Sample Date 12-13-06 Time: 1610 Technician's Signature: Mark Franco

Sample Collection Method: Same as Purge Method Yes No, fill in data below

Sample Collection Method: _____ bailer type: _____ pump type: CENTRIFUGAL
 other: _____ component material: _____
 Pump Model: _____ Pump S/N: _____ Controller S/N: _____
 Depth Pump Set _____ Tubing Material _____ Avg. Flow Rate 140 ml/min

Parameters Collected: Total Metals Dissolved Metals Total Mercury Dissolved Mercury TPH
 VOC SVOC Explosives Nitroguanidine Perchlorate Picric Acid Alkalinity TOC
 Chloride/Sulfate Nitrate/Nitrite DOC TDS TPH-DRO TPH-GRO
 Other: As Speciation
 List filtered parameters: N/A Filtering Method N/A
 Filter Size: N/A
 Sample preservation completed? Yes No Preserved by: Franco
 Sample Color: Clear Sample Odor: NONE

Comments: POWER SUPPLY PROBLEM AT 1450 OR VALVE CLOGGING
 Duplicate 434-MW-03A GW taken for As speciation, Explosives & metals
 Cooler IDs: #2 & #5 FedEx Tracking #s N/A

APPENDIX E
GROUND-WATER LABORATORY DATA PACKAGES



ANALYTICAL RESULTS

Prepared for:

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

410-436-4465

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1018655. Samples arrived at the laboratory on Monday, December 18, 2006. The PO# for this group is DAAD05-02-D-0037.

Client Description

23548001 PEDRICKTOWN # 32372-0606 Jones Water
23548003 PEDRICKTOWN # 32372-0606 Jones Water
23548004 PEDRICKTOWN # 32372-0606 Jones Water
23548005 PEDRICKTOWN # 32372-0606 Jones Water
23548008 PEDRICKTOWN # 32372-0606 Jones Water
23548009 PEDRICKTOWN # 32372-0606 Jones Water

Lancaster Labs Number

4942739
4942740
4942741
4942742
4942743
4942744

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO U.S. Army CHPPM
1 COPY TO Data Package Group

Attn: Rick Puzniak

送達済



Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Marla S. Lord".

Marla S. Lord
Senior Specialist

6049



Lancaster Laboratories Sample No. WW 4942739

23548001 PEDRICKTOWN # 32372-0606 Jones Water
 Field# BLANKS # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/01/2006 09:00

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00001 SDG#: PSX90-01BL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05382	3 EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	5.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	5.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	5.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	5.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	5.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	5.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	5.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	5.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	5.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	5.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	5.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	5.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	5.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	5.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	5.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	5.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	5.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	5.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	5.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	5.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	5.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	5.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	5.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	5.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	5.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	5.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	5.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	5.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	5.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	5.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	5.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	5.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	5.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942739

23548001 PEDRICKTOWN # 32372-0606 Jones Water
 Field# BLANKS # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/01/2006 09:00

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00001 SDG#: PSX90-01BL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05420	Isopropylbenzene	98-82-8	N.D.	5.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	5.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	5.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	5.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	5.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	5.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	5.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	5.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	5.	1.	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	5.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	5.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	5.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	5.	2.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	5.	1.	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	0.5	ug/l	1
02085	Tetrahydrofuran	109-99-9	N.D.	10.	4.	ug/l	1
06302	Acetone	67-64-1	N.D.	20.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	5.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	10.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	5.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	5.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	10.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	10.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	5.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	20.	4.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	50.	15.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	5.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	100.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	50.	10.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 23548001
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942739

23548001 PEDRICKTOWN # 32372-0606 Jones Water
 Field# BLANKS # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/01/2006 09:00

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00001 SDG#: PSX90-01BL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
06897	Ethyl Methacrylate	97-63-2	N.D.	5.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	5.	1.	ug/l	1

The vial used for the GC/MS volatile analysis was bottle code 38a.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05382	3 EPA SW846/8260 (water)	SW-846 8260B	1	12/21/2006 01:31	Jason M Long	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	12/21/2006 01:31	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2006 01:31	Jason M Long	1

8852

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942740

23548003 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-02-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 09:25

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00003 SDG#: PSX90-02BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05382	3 EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	5.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	5.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	5.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	5.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	5.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	5.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	5.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	5.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	5.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	5.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	5.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	5.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	5.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	5.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	5.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	5.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	5.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	5.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	5.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	5.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	5.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	5.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	5.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	5.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	5.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	5.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	5.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	5.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	5.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	5.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	5.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	5.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	5.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942740

23548003 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-02-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 09:25

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00003 SDG#: PSX90-02BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05420	Isopropylbenzene	98-82-8	N.D.	5.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	5.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	5.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	5.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	5.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	5.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	5.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	5.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	5.	1.	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	5.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	5.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	5.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	5.	2.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	5.	1.	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	0.5	ug/l	1
02085	Tetrahydrofuran	109-99-9	N.D.	10.	4.	ug/l	1
06302	Acetone	67-64-1	N.D.	20.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	5.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	10.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	5.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	5.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	10.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	10.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	5.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	20.	4.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	50.	15.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	5.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	100.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	50.	10.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942740

23548003 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-02-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 09:25

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00003 SDG#: PSX90-02BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
06897	Ethyl Methacrylate	97-63-2	N.D.	5.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	5.	1.	ug/l	1

The vial used for the GC/MS volatile analysis was bottle code 38a.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
05382	3 EPA SW846/8260 (water)	SW-846 8260B	1	12/21/2006 01:54	Jason M Long	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	12/21/2006 01:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2006 01:54	Jason M Long	1

0055

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942741

23548004 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected:12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00004 SDG#: PSX90-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05382	3 EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	5.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	5.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	5.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	5.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	5.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	5.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	5.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	5.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	5.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	5.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	5.	0.8	ug/l	1
05396	Chloroform	67-69-3	N.D.	5.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	5.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	5.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	5.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	5.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	5.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	5.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	5.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	5.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	5.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	5.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	5.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	2. J	5.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	5.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	5.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	5.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	5.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	5.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	5.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	5.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	5.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	5.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	5.	1.	ug/l	1

*-This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942741

23548004 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:05
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00004 SDG#: PSX90-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05420	Isopropylbenzene	98-82-8	N.D.	5.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	5.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	5.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	5.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	5.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	5.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	5.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	5.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	5.	1.	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	5.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	5.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	5.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	5.	2.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	5.	1.	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	0.5	ug/l	1
02085	Tetrahydrofuran	109-99-9	N.D.	10.	4.	ug/l	1
06302	Acetone	67-64-1	N.D.	20.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	5.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	10.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	5.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	5.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	10.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	10.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	5.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	20.	4.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	50.	15.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	5.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	100.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	50.	10.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942741
23548004 PEDRICKTOWN # 32372-0606 Jones Water
Field# 413-W-MW1-GW # 02-D-0037
Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/27/2006 at 13:05
Discard: 03/08/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

00004 SDG#: PSX90-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received		Units	Dilution Factor
					Method	Detection Limit		
06897	Ethyl Methacrylate	97-63-2	N.D.	5.	1.		ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	5.	1.		ug/l	1

The vial used for the GC/MS volatile analysis was bottle code 38a.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05382	3 EPA SW846/8260 (water)	SW-846 8260B	1	12/21/2006 03:01	Jason M Long	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	12/21/2006 03:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2006 03:01	Jason M Long	1

0058

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942742

23548005 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-03-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 13:55

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00005 SDG#: PSX90-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05382	3 EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	5.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	5.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	5.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	5.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	5.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	5.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	5.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	5.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	5.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	5.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	5.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	5.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	5.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	5.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	5.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	5.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	5.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	5.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	5.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	5.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	5.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	5.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	5.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	1. J	5.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	5.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	5.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	5.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	5.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	5.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	5.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	5.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	5.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	5.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 1425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942742

23548005 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-03-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 13:55

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00005 SDG#: PSX90-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05420	Isopropylbenzene	98-82-8	N.D.	5.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	5.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	5.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	5.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	5.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	5.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	5.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	5.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	5.	1.	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	5.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	5.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	5.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	5.	2.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	5.	1.	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	0.5	ug/l	1
02085	Tetrahydrofuran	109-99-9	N.D.	10.	4.	ug/l	1
06302	Acetone	67-64-1	N.D.	20.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	5.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	10.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	5.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	5.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	10.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	10.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	5.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	20.	4.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	50.	15.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	5.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	100.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	50.	10.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942742

23548005 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-03-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 13:55

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00005 SDG#: PSX90-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
06897	Ethyl Methacrylate	97-63-2	N.D.	5.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	5.	1.	ug/l	1

The vial used for the GC/MS volatile analysis was bottle code 38a.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
05382	3 EPA SW846/8260 (water)	SW-846 8260B	1	12/21/2006 03:23	Jason M Long	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	12/21/2006 03:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2006 03:23	Jason M Long	1

886

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942743

23548008 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-NW-MW1-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 10:40

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00008 SDG#: PSX90-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05382	3 EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	5.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	5.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	5.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	5.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	5.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	5.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	5.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	5.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	5.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	5.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	5.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	5.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	5.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	5.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	5.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	5.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	5.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	5.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	5.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	5.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	5.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	5.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	5.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	5.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	5.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	5.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	5.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	5.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	5.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	5.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	5.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	5.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	5.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942743

23548008 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-NW-MW1-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 10:40

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00008 SDG#: PSX90-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05420	Isopropylbenzene	98-82-8	N.D.	5.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	5.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	5.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	5.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	5.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	5.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	5.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	5.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	5.	1.	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	5.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	5.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	5.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	5.	2.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	5.	1.	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	0.5	ug/l	1
02085	Tetrahydrofuran	109-99-9	N.D.	10.	4.	ug/l	1
06302	Acetone	67-64-1	N.D.	20.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	5.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	10.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	5.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	5.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	10.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	10.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	5.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	20.	4.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	50.	15.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	5.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	100.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	50.	10.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	5.	1.	ug/l	1

Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942743

23548008 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-NW-MW1-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 10:40

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00008 SDG#: PSX90-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
06897	Ethyl Methacrylate	97-63-2	N.D.	5.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	5.	1.	ug/l	1

The vial used for the GC/MS volatile analysis was bottle code 38a.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Analyst	Dilution Factor
			Trial#	Date and Time			
05382	3 EPA SW846/8260 (water)	SW-846 8260B	1	12/21/2006 03:46		Jason M Long	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	12/21/2006 03:46		Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2006 03:46		Jason M Long	1

0064

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942744

23548009 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1A-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00009 SDG#: PSX90-06*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05382	3 EPA SW846/8260 (water)						
05384	Dichlorodifluoromethane	75-71-8	N.D.	5.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	5.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	5.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	5.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	5.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	5.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	5.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	5.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	5.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	1.	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	5.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	5.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	5.	0.8	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	5.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	5.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	1.	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	5.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	5.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	5.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	5.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	5.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	5.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	5.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	5.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	5.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	2. J	5.	0.8	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	5.	1.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	5.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	5.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	5.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	5.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	5.	0.8	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	5.	0.8	ug/l	1
05417	o-Xylene	95-47-6	N.D.	5.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	5.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	5.	1.	8865 ug/l	1

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. **WW 4942744**

23548009 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1A-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00009 SDG#: PSX90-06*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
05420	Isopropylbenzene	98-82-8	N.D.	5.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	5.	1.	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	5.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	5.	1.	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	5.	1.	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	5.	1.	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	5.	1.	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	5.	1.	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	5.	1.	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	5.	1.	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	5.	1.	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	5.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	5.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5.	2.	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	5.	2.	ug/l	1
05439	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	5.	1.	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	5.	0.5	ug/l	1
02085	Tetrahydrofuran	109-99-9	N.D.	10.	4.	ug/l	1
06302	Acetone	67-64-1	N.D.	20.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	5.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	10.	3.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	5.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	5.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	10.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	10.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	5.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	20.	4.	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	50.	15.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	5.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	100.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	50.	10.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	5.	1.	ug/l	1

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942744

23548009 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1A-GW # 02-D-0037
 Pick-Up Order #100 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/27/2006 at 13:06
 Discard: 03/08/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

00009 SDG#: PSX90-06*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
06897	Ethyl Methacrylate	97-63-2	N.D.	5.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	5.	1.	ug/l	1

The vial used for the GC/MS volatile analysis was bottle code 38a.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
05382	3 EPA SW846/8260 (water)	SW-846 8260B	1	12/21/2006 04:09	Jason M Long	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	12/21/2006 04:09	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2006 04:09	Jason M Long	1

0067

*=This limit was used in the evaluation of the final result



ANALYTICAL RESULTS

Prepared for:

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

410-436-4465

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1018656. Samples arrived at the laboratory on Monday, December 18, 2006. The PO# for this group is DAAD05-02-D-0037.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
23548002 PEDRICKTOWN # 32372-0606 Jones Water	4942745
23548003 PEDRICKTOWN # 32372-0606 Jones Water	4942746
23548004 PEDRICKTOWN # 32372-0606 Jones Water	4942747
23548005 PEDRICKTOWN # 32372-0606 Jones Water	4942748
23548006 PEDRICKTOWN # 32372-0606 Jones Water	4942749
23548007 PEDRICKTOWN # 32372-0606 Jones Water	4942750
23548008 PEDRICKTOWN # 32372-0606 Jones Water	4942751
23548009 PEDRICKTOWN # 32372-0606 Jones Water	4942752

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO U.S. Army CHPPM
1 COPY TO Data Package Group

Attn: Rick Puzniak

0052



Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "R. Karam".

Richard H. Karam
Group Leader

8853



Lancaster Laboratories Sample No. WW 4942745

23548002 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 12-MW-02-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 16:35

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48002 SDG#: PSX91-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	58.	19.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	29.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	14.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	14.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	14.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942745

23548002 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 12-MW-02-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected:12/14/2006 16:35

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48002 SDG#: PSX91-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	14.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0055

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681

*This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942745

23548002 PEDRICKTOWN # 32372-0606 Jones Water
Field# 12-MW-02-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected:12/14/2006 16:35

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48002 SDG#: PSX91-01

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/20/2006 20:16	Ryan P Byrne	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

0556

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942746

23548003 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-02-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 09:25

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48003 SDG#: PSX91-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	57.	19.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	29.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	14.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	14.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl) ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	14.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

Lancaster Laboratories, Inc.
 405 New York Ave.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942746

23548003 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-02-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 09:25

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48003 SDG#: PSX91-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	14.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0858

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942746

23548003 PEDRICKTOWN # 32372-0606 Jones Water
Field# 413-MW-02-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 09:25

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48003 SDG#: PSX91-02

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/20/2006 20:38	Ryan P Byrne	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

0059

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2405 Walnut Street
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942747

23548004 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected:12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48004 SDG#: PSX91-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	58.	19.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	29.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	14.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	14.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl) ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy) methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	14.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

*-This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942747

23548004 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48004 SDG#: PSX91-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	14.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

8861

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 205 North Second Street
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942747

23548004 PEDRICKTOWN # 32372-0606 Jones Water
Field# 413-W-MW1-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48004 SDG#: PSX91-03

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/20/2006 21:00	Ryan P Byrne	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

0062

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942748

23548005 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-03-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 13:55

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48005 SDG#: PSX91-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	58.	19.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	29.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	15.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	15.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl) ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	15.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

*-This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942748

23548005 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-03-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 13:55

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48005 SDG#: PSX91-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	15.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

664

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942748

23548005 PEDRICKTOWN # 32372-0606 Jones Water
Field# 413-MW-03-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 13:55

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48005 SDG#: PSX91-04

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/20/2006 21:23	Ryan P Byrne	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

0065



Lancaster Laboratories Sample No. WW 4942749

23548006 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 13-MW-01-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected:12/14/2006 15:35

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48006 SDG#: PSX91-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	59.	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	30.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	15.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	15.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	15.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942749

23548006 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 13-MW-01-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 15:35

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48006 SDG#: PSX91-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	15.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

8867

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 425 Northampton Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942749

23548006 PEDRICKTOWN # 32372-0606 Jones Water
Field# 13-MW-01-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 15:35

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48006 SDG#: PSX91-05

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/21/2006 05:24	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

8868

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 17425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*-This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942750

23548007 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 12-MW-03-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected:12/14/2006 17:30

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48007 SDG#: PSX91-06BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	60.	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	30.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	15.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	15.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl) ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	15.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

*-This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942750

23548007 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 12-MW-03-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 17:30

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48007 SDG#: PSX91-06BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	15.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0070

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942750

23548007 PEDRICKTOWN # 32372-0606 Jones Water
Field# 12-MW-03-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 17:30

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48007 SDG#: PSX91-06BKG

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/20/2006 14:41	Ryan P Byrne	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

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Lancaster Laboratories, Inc.
2425 North Lincoln Ave.
PO Box 12425
Lancaster, PA 17605-2425
/17-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4942751

23548008 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-NW-MW1-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 10:40

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48008 SDG#: PSX91-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	58.	19.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	29.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	14.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	14.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl) ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	14.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

*-This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942751

23548008 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-NW-MW1-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 10:40

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48008 SDG#: PSX91-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo (a) anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis (2-Ethylhexyl) phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo (b) fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo (k) fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo (a) pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno (1,2,3-cd) pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz (a, h) anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo (g, h, i) perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	14.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0073

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942751

23548008 PEDRICKTOWN # 32372-0606 Jones Water
Field# 413-NW-MW1-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected:12/14/2006 10:40

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48008 SDG#: PSX91-07

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/21/2006 05:46	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

9874



Lancaster Laboratories Sample No. WW 4942752

23548009 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1A-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48009 SDG#: PSX91-08*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
04678	14 TCL SW846 SVOA-waters						
03871	4-Chloroaniline	106-47-8	N.D.	5.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	5.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	5.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	5.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	5.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	5.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	5.	1.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	5.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	5.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	5.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	3.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	5.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	5.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	5.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	58.	19.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	29.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	14.	5.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	14.	3.	ug/l	1
03935	N-Nitrosodimethylamine	62-75-9	N.D.	5.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	5.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	5.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	5.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	5.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	5.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	5.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	5.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	5.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	5.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	5.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	5.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	5.	1.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	14.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	5.	2.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	5.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	5.	2.	ug/l	1

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942752

23548009 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1A-GW # 02-D-0037
 Pick-Up Order # 101 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/26/2006 at 09:33
 Discard: 03/07/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

48009 SDG#: PSX91-08*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
03953	2,6-Dinitrotoluene	606-20-2	N.D.	5.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	5.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	5.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	5.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	5.	2.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	5.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	5.	2.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	5.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	5.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	5.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	5.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	5.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	5.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	5.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	5.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	5.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	5.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	5.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	5.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	5.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	5.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	5.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	5.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	5.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	5.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	5.	1.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	5.	2.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04712	Benzyl alcohol	100-51-6	N.D.	14.	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

0076

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4942752

23548009 PEDRICKTOWN # 32372-0606 Jones Water
Field# 413-W-MW1A-GW # 02-D-0037
Pick-Up Order # 101 Delivery Order# 05 Water

Collected:12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/26/2006 at 09:33
Discard: 03/07/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

48009 SDG#: PSX91-08*

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
04678	14 TCL SW846 SVOA-waters	SW-846 8270C	1	12/21/2006 06:08	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	12/19/2006 15:00	Olivia I Santiago	1

8877

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

E-47

TP# - CLO
DPO

**DIRECTORATE OF LABORATORY SCIENCES
CONTRACT DATA TECHNICAL REVIEW**

PROJECT OFFICER: Jones DIVISION/TEAM: LCO

INSTALLATION: Pedricktown CONTRACT LAB: LLH

PROJECT NO: 38-0606 LIMS W.O. NO: 23548

DLS TECHNICAL REVIEW OF YOUR CONTRACT DATA PACKAGE HAS BEEN COMPLETED. THE FOLLOWING ACTION HAS BEEN TAKEN:

DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE AS SUBMITTED.

DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE WITH COMMENTS NOTED BELOW.

OTHER.

COMMENTS/ NARRATIVE:

Review of the raw data indicates no problem with the acceptability of reported results. Please note the contract laboratory narrative report.

DRO results were quantitated against #2 fuel oil with all QC acceptable with exception of the relative percent difference between the matrix spike and matrix spike duplicate. This may be due to the non-homogeneity of the sample matrix or sampling method.


REVIEWED BY: D Morrow
DATE: 11 Jan 2007



ANALYTICAL RESULTS

Prepared for:

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

410-436-4465

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1018767. Samples arrived at the laboratory on Monday, December 18, 2006. The PO# for this group is DAAD05-02-D-0037.

Client Description

23548002 PEDRICKTOWN # 32372-0606 Jones Water
23548003 PEDRICKTOWN # 32372-0606 Jones Water
23548004 PEDRICKTOWN # 32372-0606 Jones Water
23548005 PEDRICKTOWN # 32372-0606 Jones Water
23548006 PEDRICKTOWN # 32372-0606 Jones Water
23548007 PEDRICKTOWN # 32372-0606 Jones Water
23548008 PEDRICKTOWN # 32372-0606 Jones Water
23548009 PEDRICKTOWN # 32372-0606 Jones Water

Lancaster Labs Number

4943641
4943642
4943643
4943644
4943645
4943646
4943647
4943648

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO U.S. Army CHPPM
1 COPY TO Data Package Group


Attn: Rick Puzniak





Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,



Senior Chemist

0051



Lancaster Laboratories Sample No. WW 4943641

23548002 PEDRICKTOWN # 32372-0606 Jones Water
Field# 12-MW-02-GW # 02-D-0037
Pick-Up Order #099 Delivery Order# 05 Water

Collected:12/14/2006 16:35

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/29/2006 at 12:16
Discard: 03/10/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

99002 SDG#: PSX89-01BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	49. J	100.	29.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006 15:08	Tracy A Cole	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006 19:00	Elaine F Stoltzfus	1

8852

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4943642

23548003 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-02-GW # 02-D-0037
 Pick-Up Order #099 Delivery Order# 05 Water

Collected: 12/14/2006 09:25

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/29/2006 at 12:16
 Discard: 03/10/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

99003 SDG#: PSX89-02BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	60.	J	95.	27.	ug/l	1
01635	29 TPH-GRO 8015B - water							
01639	TPH-GRO 8015B - water	n.a.	N.D.		50.	20.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006	15:39	Tracy A Cole	1
01635	29 TPH-GRO 8015B - water	SW-846 8015B modified	1	12/20/2006	12:05	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/20/2006	12:05	Martha L Seidel	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006	19:00	Elaine F Stoltzfus	1

0053



Lancaster Laboratories Sample No. WW 4943643

23548004 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MWL-GW # 02-D-0037
 Pick-Up Order #099 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/29/2006 at 12:16
 Discard: 03/10/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

99004 SDG#: PSX89-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	200.	95.	28.	ug/l	1
01635	29 TPH-GRO 8015B - water						
01639	TPH-GRO 8015B - water	n.a.	N.D.	50.	20.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Analyst	Dilution Factor
			Trial#	Date and Time			
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006 15:49		Tracy A Cole	1
01635	29 TPH-GRO 8015B - water	SW-846 8015B modified	1	12/20/2006 12:26		Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/20/2006 12:26		Martha L Seidel	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006 19:00		Elaine F Stoltzfus	1

0854

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4943644

23548005 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-MW-03-GW # 02-D-0037
 Pick-Up Order #099 Delivery Order# 05 Water

Collected:12/14/2006 13:55

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/29/2006 at 12:16
 Discard: 03/10/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

99005 SDG#: PSX89-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	150.	95.	28.	ug/l	1
01635	29 TPH-GRO 8015B - water						
01639	TPH-GRO 8015B - water	n.a.	N.D.	50.	20.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006 16:00	Tracy A Cole	1
01635	29 TPH-GRO 8015B - water	SW-846 8015B modified	1	12/20/2006 12:47	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/20/2006 12:47	Martha L Seidel	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006 19:00	Elaine F Stoltzfus	1

~~8855~~

*=This limit was used in the evaluation of the final result



Lancaster Laboratories Sample No. WW 4943645

23548006 PEDRICKTOWN # 32372-0606 Jones Water
Field# 13-MW-01-GW # 02-D-0037
Pick-Up Order #099 Delivery Order# 05 Water

Collected:12/14/2006 15:35

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/29/2006 at 12:16
Discard: 03/10/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

99006 SDG#: PSX89-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	62. J	95.	27.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006 16:10	Tracy A Cole	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006 19:00	Elaine F Stoltzfus	1

8856

*=This limit was used in the evaluation of the final result
Lancaster Laboratories, Inc.
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4943646

23548007 PEDRICKTOWN # 32372-0606 Jones Water
Field# 12-MW-03-GW # 02-D-0037
Pick-Up Order #099 Delivery Order# 05 Water

Collected:12/14/2006 17:30

Account Number: 04694

Submitted: 12/18/2006 15:30
Reported: 12/29/2006 at 12:16
Discard: 03/10/2007

U.S. Army CHPPM
ATTN: DFAS-RI-FPV BLDG. 68
Rock Island Operating Location
Rock Island IL 61299-8401

99007 SDG#: PSX89-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	48. J	95.	28.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006 16:20	Tracy A Cole	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006 19:00	Elaine F Stoltzfus	1

8857

*=This limit was used in the evaluation of the final result
Lancaster Laboratories, Inc.
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4943647

23548008 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-NW-MW1-GW # 02-D-0037
 Pick-Up Order #099 Delivery Order# 05 Water

Collected: 12/14/2006 10:40

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/29/2006 at 12:16
 Discard: 03/10/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

99008 SDG#: PSX89-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	71. J	95.	28.	ug/l	1
01635	29 TPH-GRO 8015B - water						
01639	TPH-GRO 8015B - water	n.a.	N.D.	50.	20.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Analyst	Dilution Factor
			Trial#	Date and Time			
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006 16:31		Tracy A Cole	1
01635	29 TPH-GRO 8015B - water	SW-846 8015B modified	1	12/20/2006 13:08		Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/20/2006 13:08		Martha L Seidel	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006 19:00		Elaine F Stoltzfus	1

~~8858~~

*=This limit was used in the evaluation of the final result
 Lancaster Laboratories, Inc.
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4943648

23548009 PEDRICKTOWN # 32372-0606 Jones Water
 Field# 413-W-MW1A-GW # 02-D-0037
 Pick-Up Order #099 Delivery Order# 05 Water

Collected: 12/14/2006 11:45

Account Number: 04694

Submitted: 12/18/2006 15:30
 Reported: 12/29/2006 at 12:16
 Discard: 03/10/2007

U.S. Army CHPPM
 ATTN: DFAS-RI-FPV BLDG. 68
 Rock Island Operating Location
 Rock Island IL 61299-8401

99009 SDG#: PSX89-08*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation*	As Received Method Detection Limit	Units	Dilution Factor
08269	26 TPH-DRO by 8015B - water	n.a.	210.	95.	28.	ug/l	1
01635	29 TPH-GRO 8015B - water						
01639	TPH-GRO 8015B - water	n.a.	N.D.	50.	20.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Analyst	Dilution Factor
			Trial#	Date and Time			
08269	26 TPH-DRO by 8015B - water	SW-846 8015B	1	12/21/2006 16:41		Tracy A Cole	1
01635	29 TPH-GRO 8015B - water	SW-846 8015B modified	1	12/20/2006 13:29		Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/20/2006 13:29		Martha L Seidel	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	12/20/2006 19:00		Elaine F Stoltzfus	1

8859

*=This limit was used in the evaluation of the final result



CLIENT: U.S. Army CHPPM
SDG: PSX89

LANCASTER LABORATORIES

TPH-DRO by 8015B

MATRIX

<u>LLI SAMPLE #</u>	<u>SAMPLE CODE</u>	<u>WATER</u>	<u>SOLID</u>	<u>COMMENT</u>
BLANKA 12/20/06	PBLKMV	X		Method Blank
LCSA	LCSWW	X		Lab Control Spike
4943641	99002	X		Unspiked
4943642	99003	X		
4943643	99004	X		
4943644	99005	X		
4943645	99006	X		
4943646	99007	X		
4943647	99008	X		
4943648	99009	X		
<u>LAB SUBMITTED QC:</u>				
4943641MS	99002MS	X		Matrix Spike
4943641MSD	99002MSD	X		Matrix Spike Dup

A. Sample Preparation:

No problems were encountered with the preparation of the samples.

B. Analysis:

The analysis was performed using the following runs:

- F349, F354, F355

No problems were encountered during analysis.

C. Quality Control:

The %RPD for 99002MS/99002MSD is above QC limits. Since the individual spike recoveries are within QC limits, the data was reported.

All other QC data are within specifications.

D. Data Interpretation:

Data indicating manual integration requires the following codes:

- 1 = missed peak
- 2 = improper baseline

The peaks/area that have been manually changed are indicated with an "M" on the raw data.

The method blank was evaluated to the MDL. Values between the MDL and the LOQ are reported with a "J" qualifier.

0071



No further interpretation is needed.

Narrative reviewed and approved by:

Audrey McClune for
Dana Kauffman, Manager Data Deliverables

1-5-07
Date

0072

Sample Reference List for SDG Number PSX89
with a Data Package Type of Aberdeen
04694 - U.S. Army CHPPM
 Project: PO# 099, DO# 05 PEDRICKTOWN

<u>Lab Sample Number</u>	<u>Lab Sample Code</u>	<u>Client Sample Description</u>		
4943641	99002	23548002 PEDRICKTOWN # 32372-0606 Jones Water 02-D-0037	Field# 12-MW-02-GW	#
4943642	99003	23548003 PEDRICKTOWN # 32372-0606 Jones Water 02-D-0037	Field# 413-MW-02-GW	#
4943643	99004	23548004 PEDRICKTOWN # 32372-0606 Jones Water # 02-D-0037	Field# 413-W-MW1-GW	
4943644	99005	23548005 PEDRICKTOWN # 32372-0606 Jones Water 02-D-0037	Field# 413-MW-03-GW	#
4943645	99006	23548006 PEDRICKTOWN # 32372-0606 Jones Water 02-D-0037	Field# 13-MW-01-GW	#
4943646	99007	23548007 PEDRICKTOWN # 32372-0606 Jones Water 02-D-0037	Field# 12-MW-03-GW	#
4943647	99008	23548008 PEDRICKTOWN # 32372-0606 Jones Water # 02-D-0037	Field# 413-NW-MW1-GW	
4943648	99009	23548009 PEDRICKTOWN # 32372-0606 Jones Water # 02-D-0037	Field# 413-W-MW1A-GW	

2E
WATER SURROGATE RECOVERY

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No:

SDG No.: PSX89

GC Column (1): CAPILLARY ID: .53

GC Column (2):

ID:

Batchnumber: 063540003A

SAMPLE	SAMPLE CODE NO.	O-TP 1 % REC #	O-TP 2 % REC #	TOT OUT
4943641	99002	87		0
4943641 MS	99002MS	94		0
4943641 MSD	99002MSD	110		0
4943642	99003	88		0
4943643	99004	96		0
4943644	99005	88		0
4943645	99006	93		0
4943646	99007	90		0
4943647	99008	93		0
4943648	99009	89		0
BLANKA	PBLKMV	91		0
LCSA	LCSWW	102		0

O-TP = o-Terphenyl

ADVISORY
QC LIMITS
(54 - 127)

NOMINAL
CONCENTRATION
12 ug/l

~~8874~~

Column to be used to flag recovery values

* Values outside of QC Limits

D Surrogate diluted out

Water Lab Control Spike/Lab Control Spike Duplicate Recovery

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Laboratory Control Spike - Sample Code No.: LCSWW

Compound	Spike Added (ug/l)	LCS Concen (ug/l)	LCSD Concen (ug/l)	LCS % Rec #	LCSD % Rec #	LCS-LCSD % REC Limits	% RPD #	% RPD Lim
Total DRO	800	730		91		(63 - 119)		20

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 1 outside limits

0075

Comments: Results calculated on as-received basis.

Sample No.: LCSA

Batch: 063540003A

3E

Water Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Lancaster Laboratories

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix Spike - Sample Code No.: 99002

Compound	Spike Added (ug/l)	Sample Concen (ug/l)	MS Concen (ug/l)	MSD Concen (ug/l)	MS % Rec #	MSD % Rec #	MS-MSD % REC Limits	% RPD #	% RPD Lim
Total DRO	800	49	660	820	76	96	(50 - 117)	22*	20

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

6076

Comments: Results calculated on as-received basis.

Sample No.: 4943641

Batch: 063540003A

METHOD BLANK SUMMARY

SAMPLE CODE NO.

PBLKMV

Lab Name: Lancaster Laboratories Contract:Lab Code: Case No.: SAS No.: SDG No.: PSX89Lab Sample ID BLANKA Batch 063540003ALab File ID: F355.43RMatrix: (soil/water) WATERExtraction: (SepF/Cont/Sonc) SEPFSulfur Cleanup: (Y/N) NDate Extracted: 12/20/2006Date Analyzed (1): 12/21/2006

Date Analyzed (2):

Time Analyzed (1): 14:47:09

Time Analyzed (2):

Instrument ID (1): H6612A

Instrument ID (2):

GC Column: CAPILLARY ID: 0.53 (mm)

GC Column: ID: (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD

	SAMPLE CODE NO.	LAB SAMPLEID	DATE ANALYZED 1	DATE ANALYZED 2
01	99002	4943641	12/21/2006	
02	99002MS	4943641	12/21/2006	
03	99002MSD	4943641	12/21/2006	
04	99003	4943642	12/21/2006	
05	99004	4943643	12/21/2006	
06	99005	4943644	12/21/2006	
07	99006	4943645	12/21/2006	
08	99007	4943646	12/21/2006	
09	99008	4943647	12/21/2006	
10	99009	4943648	12/21/2006	
11	PBLKMV	BLANKA	12/21/2006	
12	LCSWW	LCSA	12/21/2006	

8877

COMMENTS: _____

ORGANICS ANALYSIS DATA SHEET

PBLKMOV

Lab Name: Lancaster Laboratories Contract: Batchnumber: 063540003A

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATERLab Sample ID: BLANKASample wt/vol: 1000 (g/ml) mLLab File ID: F355.43R

% Moisture: Decanted: (Y/N)

Date Received:

Extraction: (SepF/Cont/Sonc) SEPFDate Extracted: 12/20/2006Concentrated Extract Volume: 1000 (uL)Date Analyzed: 12/21/2006Injection Volume: 1 (uL)Dilution Factor: 1

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS

CAS NO.	COMPOUND	(UG/L or UG/KG) <u>ug/l</u>	Q
PHCD	Total DRO		29U

8878



Exp.

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

DIRECTORATE OF LABORATORY SCIENCES (DLS)

5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403
(410) 436-2208

FINAL ANALYTICAL REPORT

JAN 16 2007

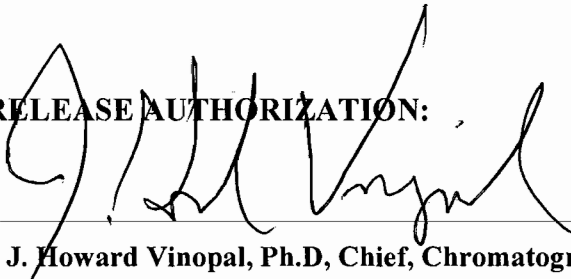
CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: PEDRICKTOWN, CP, NJ
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32372 DLS WORK ORDER #: 23548
REPORT SERIAL NUMBER: 323708

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature:


J. Howard Vinopal, Ph.D, Chief, Chromatographic Analysis Division

Date:



DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

SUBJECT: Analysis of Ground Water Samples from Camp Pedricktown for Explosives and Related Compounds.

DATE: 16 January 2007

Provided are the results from the analysis of five ground water samples from Camp Pedricktown for explosives and related compounds. The samples were collected on 13 December 2006 and were received in DLS on 15 December 2006 in good condition. The samples were received at 2 degrees C which is within the acceptable temperature range of 2-6 degrees C.

Sample Preparation:

The samples were extracted on 15 December 2006 in accordance with CAD SOP 13.3. The samples were extracted within the 7 day holding time which starts from the time of collection.

Sample Analysis:

The samples were analyzed on a DB-1 column on 17 and 18 December 2006. The samples were analyzed on a DB-210 column on 9 and 10 January 2007. The samples were analyzed in accordance with CAD SOP 13.3. The samples were analyzed within the required analytical holding times. The samples were analyzed by GC/ECD. The DB-1 column was used as the primary analytical column and the DB-210 column was used as the confirmation column. The analytes for all samples are reported as less than their respective reporting limits. See the Analytical Data Report for the results.

Quality Control:

One laboratory control sample (LCS), one matrix spike (MS), and one matrix spike duplicate (MSD) were analyzed with these samples. All percent recoveries were within current acceptable limits. A surrogate, 3,4-DNT, was added to each of the samples to monitor the extraction process. The percent recoveries for these surrogates were all acceptable. See the Quality Control Report for specific information.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	4
Quality Control Data Report	4
Raw Data	
Terminology/Abbreviations	1

Report Point-of-Contact: Curtis Oliver

Reviewer: Michael Hable *Michael a. Hable*
Stephen Taber

List of all tests used:

DLS Procedure	Count
CAD 13	75

Number of samples included in the report, by matrix:

Matrix	Quantity
Water (Ground water)	5

DLS Final Analytical Report, PEDRICKTOWN, CP, NJ

Program 38, SUBJONO 0606, DLS WO# 23548, Report Serial No. 323708, 1/16/2007

Analyst(s):

Analyst Code	Analyst Name	Signature
0048	OLIVERCG	<i>Curtis Oliver</i>

SAMPLE SUMMARY

Sorted by DLS ID

Field ID	DLS ID	Date Collected	Matrix
434-MW-01-GW	23548012	13-Dec-06	Water (Ground water)
434-MW-02-GW	23548013	13-Dec-06	Water (Ground water)
434-MW-03-GW	23548014	13-Dec-06	Water (Ground water)
434-MW-03A-GW	23548015	13-Dec-06	Water (Ground water)
434-MW-04-GW	23548016	13-Dec-06	Water (Ground water)

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by DLS ID

FINAL REPORT

Field ID: 434-MW-01-GW

DLS ID: 23548012

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
1,3-Dinitrobenzene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
2,4,6-Trinitrotoluene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
2,4-Dinitrotoluene	<0.020 ug/L	0.020	CAD 13	0048	18-Dec-06
2,6-Dinitrotoluene	<0.010 ug/L	0.010	CAD 13	0048	18-Dec-06
2-Amino-4,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
2-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
3-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
4-Amino-2,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
4-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
HMX	<3.0 ug/L	3.0	CAD 13	0048	18-Dec-06
Nitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
Nitroglycerin	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
RDX	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
Tetryl	<0.50 ug/L	0.50	CAD 13	0048	18-Dec-06

Field ID: 434-MW-02-GW

DLS ID: 23548013

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
1,3-Dinitrobenzene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
2,4,6-Trinitrotoluene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
2,4-Dinitrotoluene	<0.020 ug/L	0.020	CAD 13	0048	18-Dec-06
2,6-Dinitrotoluene	<0.010 ug/L	0.010	CAD 13	0048	18-Dec-06
2-Amino-4,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06

FINAL REPORT

Field ID: 434-MW-02-GW

DLS ID: 23548013

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
2-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
3-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
4-Amino-2,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
4-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
HMX	<3.0 ug/L	3.0	CAD 13	0048	18-Dec-06
Nitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
Nitroglycerin	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
RDX	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
Tetryl	<0.50 ug/L	0.50	CAD 13	0048	18-Dec-06

Field ID: 434-MW-03-GW

DLS ID: 23548014

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
1,3-Dinitrobenzene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
2,4,6-Trinitrotoluene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
2,4-Dinitrotoluene	<0.020 ug/L	0.020	CAD 13	0048	18-Dec-06
2,6-Dinitrotoluene	<0.010 ug/L	0.010	CAD 13	0048	18-Dec-06
2-Amino-4,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
2-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
3-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
4-Amino-2,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
4-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
HMX	<3.0 ug/L	3.0	CAD 13	0048	18-Dec-06
Nitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
Nitroglycerin	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06

FINAL REPORT

Field ID: 434-MW-03-GW

DLS ID: 23548014

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
RDX	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
Tetryl	<0.50 ug/L	0.50	CAD 13	0048	18-Dec-06

Field ID: 434-MW-03A-GW

DLS ID: 23548015

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
1,3-Dinitrobenzene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
2,4,6-Trinitrotoluene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
2,4-Dinitrotoluene	<0.020 ug/L	0.020	CAD 13	0048	18-Dec-06
2,6-Dinitrotoluene	<0.010 ug/L	0.010	CAD 13	0048	18-Dec-06
2-Amino-4,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
2-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
3-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
4-Amino-2,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
4-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
HMX	<3.0 ug/L	3.0	CAD 13	0048	18-Dec-06
Nitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
Nitroglycerin	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
RDX	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
Tetryl	<0.50 ug/L	0.50	CAD 13	0048	18-Dec-06

Field ID: 434-MW-04-GW

DLS ID: 23548016

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
1,3,5-Trinitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
1,3-Dinitrobenzene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06

FINAL REPORT

Field ID: 434-MW-04-GW

DLS ID: 23548016

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
2,4,6-Trinitrotoluene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
2,4-Dinitrotoluene	<0.020 ug/L	0.020	CAD 13	0048	18-Dec-06
2,6-Dinitrotoluene	<0.010 ug/L	0.010	CAD 13	0048	18-Dec-06
2-Amino-4,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
2-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
3-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
4-Amino-2,6-dinitrotoluene	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
4-Nitrotoluene	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
HMX	<3.0 ug/L	3.0	CAD 13	0048	18-Dec-06
Nitrobenzene	<0.030 ug/L	0.030	CAD 13	0048	18-Dec-06
Nitroglycerin	<0.090 ug/L	0.090	CAD 13	0048	18-Dec-06
RDX	<0.10 ug/L	0.10	CAD 13	0048	18-Dec-06
Tetryl	<0.50 ug/L	0.50	CAD 13	0048	18-Dec-06

Report ID: HMA0189v1
Report Seq: 323705



Date Generated: 1/16/2007 10:07:4
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US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)

Quality Control Report

DLS Workorder: 23548
Installation: PEDRICKTOWN, CP, NJ
Project Officer: Mr. David Jones
Profile: 0606

Report ID: HMA0189v1
 Report Seq: 323705
 Workorder No: 23548

Installation: PEDRICKTOWN, CP, NJ

Officer: Mr. David Jones
 Subjono: 0606



Page 1 of 1
 Date Generated: 1/16/2007 10:07:42 AM
 Generated By: OLIVERCG

**US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)
 Laboratory Control Samples Report**

Analyte	Date	Sample Number	Mx	Observed Units	Theoretical Units	% Rec.	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
1,3,5-Trinitrobenzene	12/18/2006	07LCS1-52	GW	0.183	0.18	101.67	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	80	119
1,3-Dinitrobenzene	12/18/2006	07LCS1-52	GW	0.5098	0.54	94.41	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	88	115
2,4,6-Trinitrotoluene	12/18/2006	07LCS1-52	GW	0.174	0.18	96.67	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	75	119
2,4-Dinitrotoluene	12/18/2006	07LCS1-52	GW	0.1182	0.12	98.50	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	80	123
2,6-Dinitrotoluene	12/18/2006	07LCS1-52	GW	0.0549	0.06	91.50	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	76	132
2-Amino-4,6-dinitrotoluene	12/18/2006	07LCS1-52	GW	0.8306	0.9	92.29	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	82	115
2-Nitrotoluene	12/18/2006	07LCS1-52	GW	0.5274	0.54	97.67	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	84	110
3-Nitrotoluene	12/18/2006	07LCS1-52	GW	0.5262	0.54	97.44	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	79	118
4-Amino-2,6-dinitrotoluene	12/18/2006	07LCS1-52	GW	0.8856	0.9	98.40	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	76	117
4-Nitrotoluene	12/18/2006	07LCS1-52	GW	0.5665	0.54	104.91	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	80	116
HMX	12/18/2006	07LCS1-52	GW	13.149	14.4	91.31	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	73	120
Nitrobenzene	12/18/2006	07LCS1-52	GW	0.1635	0.18	90.83	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	81	114
Nitroglycerin	12/18/2006	07LCS1-52	GW	0.5068	0.54	93.85	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	65	126
RDX	12/18/2006	07LCS1-52	GW	0.669	0.72	92.92	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	79	109
Tetryl	12/18/2006	07LCS1-52	GW	1.0976	0.9	121.96	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	61	131



US Army Center for Health Promotion and Preventive Medicine

Directorate Of Laboratory Sciences (DLS)

Matrix Spike Report

Analyte	Date	Sample Number	Mx	Initial Result		MS Result		Theoretical Units	% Rec.	Analyst	Method	Reviewer	Outside Limits			
				Units	Units	Units	Units						LCL	UCL		
1,3,5-Trinitrobenzene	12/18/2006	23548013 MS	GW	<	0.03	ug/L	0.2254	ug/L	0.24	93.92	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
1,3-Dinitrobenzene	12/18/2006	23548013 MS	GW	<	0.09	ug/L	0.7005	ug/L	0.72	97.29	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
2,4,6-Trinitrotoluene	12/18/2006	23548013 MS	GW	<	0.03	ug/L	0.2314	ug/L	0.24	96.42	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
2,4-Dinitrotoluene	12/18/2006	23548013 MS	GW	<	0.02	ug/L	0.1526	ug/L	0.16	95.38	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
2,6-Dinitrotoluene	12/18/2006	23548013 MS	GW	<	0.01	ug/L	0.0814	ug/L	0.08	101.75	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
2-Amino-4,6-dinitrotoluene	12/18/2006	23548013 MS	GW	<	0.1	ug/L	1.1707	ug/L	1.2	97.56	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
2-Nitrotoluene	12/18/2006	23548013 MS	GW	<	0.09	ug/L	0.6879	ug/L	0.72	95.54	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
3-Nitrotoluene	12/18/2006	23548013 MS	GW	<	0.09	ug/L	0.6792	ug/L	0.72	94.33	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
4-Amino-2,6-dinitrotoluene	12/18/2006	23548013 MS	GW	<	0.1	ug/L	1.1874	ug/L	1.2	98.95	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
4-Nitrotoluene	12/18/2006	23548013 MS	GW	<	0.09	ug/L	0.7157	ug/L	0.72	99.40	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
HMX	12/18/2006	23548013 MS	GW	<	3	ug/L	20.1031	ug/L	19.2	104.70	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
Nitrobenzene	12/18/2006	23548013 MS	GW	<	0.03	ug/L	0.228	ug/L	0.24	95.00	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
Nitroglycerin	12/18/2006	23548013 MS	GW	<	0.09	ug/L	0.7446	ug/L	0.72	103.42	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
RDX	12/18/2006	23548013 MS	GW	<	0.1	ug/L	0.914	ug/L	0.96	95.21	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130
Tetryl	12/18/2006	23548013 MS	GW	<	0.5	ug/L	1.1301	ug/L	1.2	94.18	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130

Report ID: HMA0189v1
 Report Seq: 323705
 Workorder No: 23548
 Installation: PEDRICKTOWN, CP, NJ
 Officer: Mr. David Jones
 Subjono: 0606

Date Generated: 1/16/2007 10:07:43 AM
 Generated By: OLIVERCG



US Army Center for Health Promotion and Preventive Medicine
 Directorate Of Laboratory Sciences (DLS)

Matrix Spike Duplicates Report

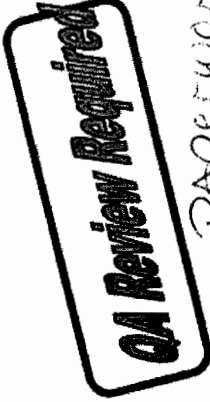
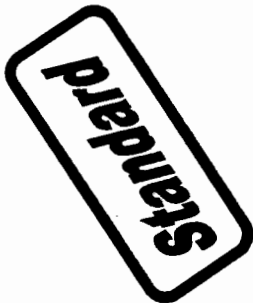
Analyte	Date	Sample Number	Mx	MS		MSD		Units	% RPD	Recovery	Analyst	Method	Reviewer	Outside Limits	LCL	UCL
				Result	Units	Result	Units									
1,3,5-Trinitrobenzene	12/18/2006	23548013 MSD	GW	0.2254	ug/L	0.2178	ug/L	3.43	90.75	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
1,3-Dinitrobenzene	12/18/2006	23548013 MSD	GW	0.7005	ug/L	0.6691	ug/L	4.59	92.93	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
2,4,6-Trinitrotoluene	12/18/2006	23548013 MSD	GW	0.2314	ug/L	0.2278	ug/L	1.57	94.92	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
2,4-Dinitrotoluene	12/18/2006	23548013 MSD	GW	0.1526	ug/L	0.1559	ug/L	2.14	97.44	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
2,6-Dinitrotoluene	12/18/2006	23548013 MSD	GW	0.0814	ug/L	0.0815	ug/L	0.12	101.88	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
2-Amino-4,6-dinitrotoluene	12/18/2006	23548013 MSD	GW	1.1707	ug/L	1.1291	ug/L	3.62	94.09	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
2-Nitrotoluene	12/18/2006	23548013 MSD	GW	0.6879	ug/L	0.6823	ug/L	0.82	94.76	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
3-Nitrotoluene	12/18/2006	23548013 MSD	GW	0.6792	ug/L	0.6731	ug/L	0.90	93.49	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
4-Amino-2,6-dinitrotoluene	12/18/2006	23548013 MSD	GW	1.1874	ug/L	1.1355	ug/L	4.47	94.63	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
4-Nitrotoluene	12/18/2006	23548013 MSD	GW	0.7157	ug/L	0.7319	ug/L	2.24	101.65	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
HMX	12/18/2006	23548013 MSD	GW	20.1031	ug/L	19.4818	ug/L	3.14	101.47	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
Nitrobenzene	12/18/2006	23548013 MSD	GW	0.228	ug/L	0.2213	ug/L	2.98	92.21	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
Nitroglycerin	12/18/2006	23548013 MSD	GW	0.7446	ug/L	0.7128	ug/L	4.36	99.00	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
RDX	12/18/2006	23548013 MSD	GW	0.914	ug/L	0.8887	ug/L	2.81	92.57	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	
Tetryl	12/18/2006	23548013 MSD	GW	1.1301	ug/L	1.1501	ug/L	1.75	95.84	OLIVERCG	CAD 13	HABLEMA	<input type="checkbox"/>	70	130	

TERMINOLOGY/ABBREVIATIONS

Term	Description
NLLAP	National Lead Laboratory Accreditaion Program
COLA	Commission on Office Laboratory Accreditation
A2LA	American Association for Laboratory Accreditation
ANALYTE	The element or compound an analyst seeks to determine. The element of interest.
AIHA	American Industrial Hygiene Association



U.S. Army Center for Health Promotion and Preventive Medicine
Directorate of Laboratory Sciences
Aberdeen Proving Ground, MD 21010-5403
<http://chppm-www.apgea.army.mil/dls>



Buckslip (Sample Receipt Document)

Paperwork only

Profile: 32372 - 0606	Description: PEDRICKTOWN, CP, NJ-32372
Workorder #: 23548	Workorder ID: 0606349
Queue: EXP	Customer: Program 38
Location: PEDRICKTOWN, CP, NJ	POC: Mr. David Jones
Jono: 77HR7E	Project Number: 38
Subjono: 0606	Notes: Samples Hand Carried to SML by Mark Farro. Metals acodes provided by C. Stoner. H.Taylor 12/15/06 Samples hand carried to SML by Mark Farro. Acodes for Metals provided by Dr Stoner. H.Taylor 12/15/06
Turn Code: W020 20 Work days from receipt	

E-80

Total Samples: 5 **Total Containers: 5**

HSN	Container ID	Customer Sample ID	Sample Type	Matrix	Temp	Date/Time Received	Date/Time Collected	Sample Due Date
	23548012	434-MW-01-GW	SAMPLE	GW	Water (Ground)	2.0 15-Dec-2006 08:25 AM	13-Dec-2006 01:59 PM	17-Jan-2007
ACodes:								
EXP1632 : Explosives in Water (GC-ECD)		EXP1632 : CAD 13 Prep						
	23548013	434-MW-02-GW	SAMPLE	GW	Water (Ground)	2.0 15-Dec-2006 08:25 AM	13-Dec-2006 01:52 PM	17-Jan-2007
ACodes:								
EXP1632 : Explosives in Water (GC-ECD)		EXP1632 : CAD 13 Prep						
	23548014	434-MW-03-GW	SAMPLE	GW	Water (Ground)	2.0 15-Dec-2006 08:25 AM	13-Dec-2006 04:10 PM	17-Jan-2007
ACodes:								
EXP1632 : Explosives in Water (GC-ECD)		EXP1632 : CAD 13 Prep						
	23548015	434-MW-03A-GW	SAMPLE	GW	Water (Ground)	2.0 15-Dec-2006 08:25 AM	13-Dec-2006 04:10 PM	17-Jan-2007
ACodes:								
EXP1632 : Explosives in Water (GC-ECD)		EXP1632 : CAD 13 Prep						
	23548016	434-MW-04-GW	SAMPLE	GW	Water (Ground)	2.0 15-Dec-2006 08:25 AM	13-Dec-2006 05:36 PM	17-Jan-2007
ACodes:								
EXP1632 : Explosives in Water (GC-ECD)		EXP1632 : CAD 13 Prep						



Profile: 32372 - 0606	Description: PEDRICKTOWN, CP, NJ-32372
Workorder #: 23548	Workorder ID: 0606349
Queue: EXP	Customer: Program 38

Total Samples: 5 Total Containers: 5

Samples Received By: <u>Nicholas a. Debb</u>	Date Received: <u>12-18-06</u>
Document Reviewed By: Heidi Taylor	Date Reviewed: <u>12.15.06</u>
Document Quality Review By: <u>Allanta Brown</u>	Date Reviewed: <u>12.15.06</u>
Samples Approved For Distribution: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date Approved: <u>12.15.06</u>

**U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: PEDRICKTOWN, CP, NJ
PROJECT: PROGRAM 38--38
PO#980DO#1**

SDG: 0612299

JANUARY 04, 2007

Submitted by:

TriMatrix Laboratories, Inc.

SDG CASE NARRATIVE

Level 5 Analysis

**U.S. ARMY CENTER FOR HEALTH PROMOTION
 AND PREVENTATIVE MEDICINE
 DIRECTORATE OF LABORATORY SCIENCES
 INSTALLATION: PEDRICKTOWN, CP, NJ
 PROJECT: PROGRAM 38--38
 PO#980DO#1
 JANUARY 04, 2007**

This case narrative is applicable to all samples received December 19, 2006. TriMatrix laboratory sample numbers were assigned as follows:

Work Order (SDG) Number: 0612299

Laboratory Sample Number(s)	USACHPPM Sample Identification		Matrix
0612299-01	23548003	413-MW-02-GW	Ground Water
0612299-02	23548004	413-WM-MW1-GW	Ground Water
0612299-03	23548007	12-MW-03-GW	Ground Water
0612299-04	23548009	413-W-MW1A-GW	Ground Water
0612299-05	23548013	434-MW-02-GW	Ground Water
0612299-06	23548014	434-MW-03-GW	Ground Water

Sample Receipt

On December 19, 2006 at 9:30 am a Sample Delivery Group (SDG) containing a total of six (6) water sample was received via Federal Express directly from the USACHPPM laboratory, Aberdeen Proving Grounds, Maryland. All samples and containers were received intact and in good condition. Shipping documents included a Pick-up/Work/Delivery Order and a Federal Express air bills. The receipt temperature of the samples was determined by recording the temperature reading of three sample containers, using an infrared thermometer. The average of those containers for cooler was 5°C.

QA/QC / Technical Issues or Problems

QA/QC or technical problems encountered during the analysis of this SDG are summarized on the following page(s).

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.

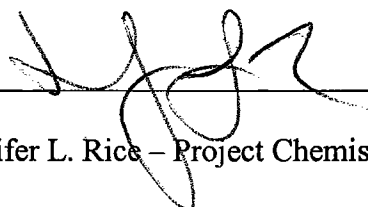
In addition to the location of information, the following is a list of QA/QC types utilized by TriMatrix Laboratories, and our in-house type designations.

Method QC:

MPB Method Preparation Blank
BLK Daily Instrument Blank
LFB Laboratory Fortified Blank
LCS Laboratory Control Sample
IEC ICP Interference Check Sample
CRL Contract Required Detection Limit Standard
ICB Initial Calibration Blank
ICV Initial Calibration Verification
CCB Continuing Calibration Blank
CCV Continuing Calibration Verification

Matrix QC:

SPK Sample Matrix Spike
MSD Sample Matrix Spike Duplicate
DUP Sample Matrix Duplicate
SUR Sample Matrix Surrogate
PDS Post Digestion Spike



Jennifer L. Rice – Project Chemist

1 4 07

TABLE OF CONTENTS

LEVEL 5 DELIVERABLES

U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: PEDRICKTOWN, CP, NJ
PROJECT: PROGRAM 38--38
PO#980DO#1
JANUARY 04, 2007

<u>Section I.D.</u>	<u>Description</u>	<u>Pages:</u>
A	Field/Internal COC Records, Air Bill	001-010
B	Inorganic Data Sulfate	011-038 012-038

ANALYTICAL REPORT

Client:	U.S. ARMY CHPPM	Work Order:	0612299
Project:	Installation: Camp Pedricktown Program 38--:	Description:	Laboratory Services
Client Sample ID:	23548003 413-MW-02-GW	Sampled:	12/14/06 09:25
Lab Sample ID:	0612299-01	Sampled By:	US Army
Matrix:	Water	Received:	12/19/06 09:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Sulfate	48	2.0	mg/L	2	USEPA-375.4	12/20/06	VAS	0614971

ANALYTICAL REPORT

Client:	U.S. ARMY CHPPM	Work Order:	0612299
Project:	Installation: Camp Pedricktown Program 38--:	Description:	Laboratory Services
Client Sample ID:	23548004 413-W-MW1-GW	Sampled:	12/14/06 11:45
Lab Sample ID:	0612299-02	Sampled By:	US Army
Matrix:	Water	Received:	12/19/06 09:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Sulfate	39	2.0	mg/L	2	USEPA-375.4	12/20/06	VAS	0614971

ANALYTICAL REPORT

Client:	U.S. ARMY CHPPM	Work Order:	0612299
Project:	Installation: Camp Pedricktown Program 38--:	Description:	Laboratory Services
Client Sample ID:	23548007 12-MW-03-GW	Sampled:	12/14/06 17:30
Lab Sample ID:	0612299-03	Sampled By:	US Army
Matrix:	Water	Received:	12/19/06 09:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Sulfate	13	1.0	mg/L	1	USEPA-375.4	12/20/06	VAS	0614971

ANALYTICAL REPORT

Client: U.S. ARMY CHPPM	Work Order: 0612299
Project: Installation: Camp Pedricktown Program 38--:	Description: Laboratory Services
Client Sample ID: 23548009 413-W-MW1A-GW	Sampled: 12/14/06 11:45
Lab Sample ID: 0612299-04	Sampled By: US Army
Matrix: Water	Received: 12/19/06 09:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Sulfate	39	2.0	mg/L	2	USEPA-375.4	12/20/06	VAS	0614971

ANALYTICAL REPORT

Client: U.S. ARMY CHPPM	Work Order: 0612299
Project: Installation: Camp Pedricktown Program 38--:	Description: Laboratory Services
Client Sample ID: 23548013 434-MW-02-GW	Sampled: 12/13/06 13:52
Lab Sample ID: 0612299-05	Sampled By: US Army
Matrix: Water	Received: 12/19/06 09:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Sulfate	15	1.0	mg/L	1	USEPA-375.4	12/20/06	VAS	0614971

ANALYTICAL REPORT

Client:	U.S. ARMY CHPPM	Work Order:	0612299
Project:	Installation: Camp Pedricktown Program 38--:	Description:	Laboratory Services
Client Sample ID:	23548014 434-MW-03-GW	Sampled:	12/13/06 16:10
Lab Sample ID:	0612299-06	Sampled By:	US Army
Matrix:	Water	Received:	12/19/06 09:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Sulfate	23	1.0	mg/L	1	USEPA-375.4	12/20/06	VAS	0614971

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
---------	--------------	------------	--------	------	--------------	----------------	-----	------------	----

Analyte: **Sulfate/USEPA-375.4**

QC Batch: 0614971 (General Inorganic Prep)

Analyzed: 12/20/2006 By: VAS

Method Blank			<1.0	mg/L					1.0
Laboratory Control Sample		8.34	8.29	mg/L	99	88-116			
0612299-01 23548003 413-MW-02-GW									
Matrix Spike	47.7	20.0	68.6	mg/L	104	55-151			2.0
Matrix Spike Duplicate	47.7	20.0	69.6	mg/L	110	55-151	1	20	2.0

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualifications required.



U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

DIRECTORATE OF LABORATORY SCIENCES (DLS)

5158 BLACKHAWK ROAD

ABERDEEN PROVING GROUND, MARYLAND 21010-5403

(410) 436-2208

FINAL ANALYTICAL REPORT

12 JAN 2007

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: PEDRICKTOWN, CP, NJ
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32372 DLS WORK ORDER #: 23548
REPORT SERIAL NUMBER: 323548

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature: Ronald J. Swatski Date: 12 January 2007
Ronald J. Swatski, Chief, Radiologic, Classic, and Clinical Chemistry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

Provided are the results of six (6) ground water samples submitted from Pedricktown, CP, NJ for classic inorganic analyses. The Classic Chemistry Team (CLS) does not currently perform Sulfate analysis in house, therefore the samples were sent to TriMatrix Laboratories, Inc. (TML). The samples were collected on 14 Dec 2006 and the sample containers were received in DLS intact and in good condition on 15 Dec 2006. The receipt temperature of the sample containers at DLS was 2 degrees Centigrade (Celsius), which is within the recommended acceptable temperature range of 2 to 6 degrees Centigrade. The sample containers were sent to TML, where they were received intact and in good condition on 19 Dec 2006. The receipt temperature of the samples at TML was determined by recording 3 random temperature readings of the sample(s) of varying container types, using an infrared thermometer. The average temperature of those containers was 5 degrees Centigrade, which is within the recommended acceptable temperature range of 2 to 6 degrees Centigrade.

SAMPLE PREPARATION:

Samples were analyzed under specified methods with no additional preparation. See sample analysis section for methods used.

SAMPLE ANALYSIS:

1. The analyses were performed, under contract, by TriMatrix Laboratories, Inc. (TML).
2. The parameters were analyzed on 20 Dec 2006.
3. All holding times were met.
4. Sulfate was analyzed using the EPA 375.4 method.

QUALITY CONTROL:

All quality control data were within acceptable limits.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	1
Quality Control Data Report	0
Raw Data	0
Terminology/Abbreviations	1

Report Point-of-Contact: Mary Jo George *Mary Jo George*
 Reviewer: MJG *MJG*

List of all tests used:

DLS Procedure	Count
EPA 375.4	6

Number of samples included in the report, by matrix:

Matrix	Quantity
Water (Ground water)	6

Analyst(s):

Analyst Code	Analyst Name	Signature
0116	TML	

SAMPLE SUMMARY*Sorted by Field ID*

Field ID	DLS ID	Date Collected	Matrix
12-MW-03-GW	23548007	14-Dec-06	Water (Ground water)
413-MW-02-GW	23548003	14-Dec-06	Water (Ground water)
413-W-MW1A-GW	23548009	14-Dec-06	Water (Ground water)
413-W-MW1-GW	23548004	14-Dec-06	Water (Ground water)
434-MW-02-GW	23548013	13-Dec-06	Water (Ground water)
434-MW-03-GW	23548014	13-Dec-06	Water (Ground water)

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by Field ID

FINAL REPORT

Field ID: 12-MW-03-GW

DLS ID: 23548007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	13.0 mg/L	1.00	EPA 375.4	0116	20-Dec-06

Field ID: 413-MW-02-GW

DLS ID: 23548003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	48.0 mg/L	2.00	EPA 375.4	0116	20-Dec-06

Field ID: 413-W-MW1A-GW

DLS ID: 23548009

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	39.0 mg/L	2.00	EPA 375.4	0116	20-Dec-06

Field ID: 413-W-MW1-GW

DLS ID: 23548004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	39.0 mg/L	2.00	EPA 375.4	0116	20-Dec-06

Field ID: 434-MW-02-GW

DLS ID: 23548013

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	15.0 mg/L	1.00	EPA 375.4	0116	20-Dec-06

Field ID: 434-MW-03-GW

DLS ID: 23548014

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Sulfate (SO4)	23.0 mg/L	1.00	EPA 375.4	0116	20-Dec-06

TERMINOLOGY/ABBREVIATIONS

Term	Description
NLLAP	National Lead Laboratory Accreditaion Program
COLA	Commission on Office Laboratory Accreditation
A2LA	American Association for Laboratory Accreditation
AIHA	American Industrial Hygiene Association

As

DIRECTORATE OF LABORATORY SCIENCES CONTRACT DATA TECHNICAL REVIEW

PROJECT OFFICER: David Jones DIVISION/TEAM: LCO

INSTALLATION: Pedricktown CONTRACT LAB: Battelle Marine Sciences Lab

PROJECT NO: 38-0606 LIMS W.O. NO: 23548

DLS TECHNICAL REVIEW OF YOUR CONTRACT DATA PACKAGE HAS BEEN COMPLETED. THE FOLLOWING ACTION HAS BEEN TAKEN:

X DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE AS SUBMITTED.

DATA PACKAGE RELEASED FOLLOWING TECHNICAL REVIEW. DATA PACKAGE IS TECHNICALLY ACCEPTABLE WITH COMMENTS NOTED BELOW.

OTHER.

COMMENTS/ NARRATIVE:

Battelle Marine Sciences Laboratory performed the analytical work on these water samples. Total arsenic (As) was determined by a Battelle procedure based on (ICP-MS) method EPA 200.8. The results for total inorganic arsenic (TiAs), As⁺³, monomethylarsonic acid (MMA), and dimethylarsinic acid (DMA) were determined using EPA method 1632A (hydride generation atomic absorption, HGAA). As⁺⁵ was determined by math: subtracting the As⁺³ result from the TiAs result. Arsenic was detected in all field samples (total As by ICP-MS). The speciation method detected inorganic arsenic in all samples. As⁺³ was only detected in two samples: 12-MW-02-GW and 413-MW-02-GW. By subtraction, it was determined that all samples contained As⁺⁵. Neither MMA nor DMA was detected in any sample.

All samples were received by the laboratory intact, but a cooler custody seal was not present. Chain of custody requirements covering transfer of the samples from the CHPPM lab to Battelle (BMSL) were met through a chain of custody affidavit. The affidavit was necessary because the samples were shipped without the original chain of custody paperwork. The samples were properly preserved prior to arrival at Battelle. The sample cooler temperature recorded (at Battelle) was 9.5 degrees C, higher than the method prescribed 4 degrees C. Battelle's login sheet did not indicate the temperature was not in compliance with method requirements. However, this increased shipping temperature could result in the speciation results being qualified as estimates.

Analysis holding times were met for all samples.

QC- The method blanks were free of arsenic at the detection levels. A standard reference material was employed as a control sample (for total As and TiAs) with acceptable recoveries. Blank spike recoveries were also acceptable (performed for all analytes except As⁺⁵). Sample replicates were run with all RPDs acceptable (indicating acceptable method precision). Matrix spike recoveries were acceptable (performed for all analytes except for As⁺⁵); however, one of two matrix spike duplicate RPDs for TiAs was outside the acceptable range. The TiAs data was not qualified as a result since other data indicated acceptable method precision. Possibly, the TiAs result for (only) sample 434-MW-04-GW should be considered an estimate as a result of the failed MSD RPD. Other method QC was acceptable (including continuing calibration checks and blanks). Battelle did report a calibration anomaly for DMA, but the data was not qualified since there were no DMA results within the calibration range.

LIMS results were reviewed and they match the hard copy. However, the LIMS data does NOT contain a data line item for total inorganic arsenic. The line item 'arsenic' refers to total arsenic. The total inorganic arsenic result can be determined by adding the 'arsenite' (As⁺³) and 'arsenic V' results, which are in the LIMS. Suggest this acode be modified by adding a 'total inorganic arsenic' line item and changing the 'arsenic' line item to 'total arsenic.'

REVIEWED BY: **Chuck Stoner**

DATE: 1/22/07

DLS CR 1.1

JUNE 2001

CHPPM – Camp Pedricktown

Sample results - Metals in Water

BATTELLE MARINE SCIENCES LABORATORIES

1529 West Sequim Bay Road
 Sequim, Washington 98382
 (360) 681-3650

U.S. Army CHPPM Pedricktown - Water Analysis for Arsenic Speciation
 Concentration in µg/L (ppb)

Lab Code	Sample ID	Collection Date	Receipt Date	Total As		As(3+5), MMA, DMA		As+3	As+5 (a)	MMA	DMA
				Analysis Date	Analysis Date	Analysis Date	Analysis Date				
				7440-38-2	7440-38-2	As+5	DMA				
				BATM2338	BATM2338	BATM2338	BATM2338				
				010407-6100a	010507-2654	010507-2654	010507-2654				
2654-1 r1	12-MW-02-GW	12/14/2006	12/19/2006	1/4/2007	1/8/2007	1/8/2007	1/8/2007	0.0589	1.10	0.0179 U	0.0374 U
2654-1 r2	12-MW-02-GW	--	--	1/4/2007	--	--	--		--	--	--
2654-2 r1	413-MW-02-GW	12/14/2006	12/19/2006	1/4/2007	1/5/2007	1/5/2007	1/5/2007	0.0356	0.499	0.0179 U	0.0374 U
2654-2 r2	413-MW-02-GW	--	--	--	1/5/2007	1/5/2007	1/5/2007	0.0418	0.551	0.0179 U	0.0374 U
2654-3	413-W-MW1-GW	12/14/2006	12/19/2006	1/4/2007	1/5/2007	1/5/2007	1/5/2007	0.022 U	0.0532	0.0179 U	0.0374 U
2654-4	413-MW-03-GW	12/14/2006	12/19/2006	1/4/2007	1/5/2007	1/5/2007	1/5/2007	0.022 U	0.267	0.0179 U	0.0374 U
2654-5	13-MW-01-GW	12/14/2006	12/19/2006	1/4/2007	1/5/2007	1/5/2007	1/5/2007	0.022 U	0.226	0.0179 U	0.0374 U
2654-6	12-MW-03-GW	12/14/2006	12/19/2006	1/4/2007	1/5/2007	1/5/2007	1/5/2007	0.022 U	0.417	0.0179 U	0.0374 U
2654-7	413-NW-MW1-GW	12/14/2006	12/19/2006	1/4/2007	1/5/2007	1/5/2007	1/5/2007	0.022 U	0.173	0.0179 U	0.0374 U
2654-8 r1	434-MW-01-GW	12/13/2006	12/19/2006	1/4/2007	1/5/2007	1/5/2007	1/5/2007	0.022 U	0.516	0.0179 U	0.0374 U
2654-8 r2	434-MW-01-GW	--	--	1/4/2007	--	--	--		--	--	--
2654-9 r1	434-MW-02-GW	12/13/2006	12/19/2006	1/4/2007	1/8/2007	1/8/2007	1/8/2007	0.022 U	0.0477	0.0179 U	0.0374 U
2654-9 r2	434-MW-02-GW	--	--	--	1/8/2007	1/8/2007	1/8/2007	0.022 U	0.0420	0.0179 U	0.0374 U
2654-10	434-MW-03-GW	12/13/2006	12/19/2006	1/4/2007	1/8/2007	1/8/2007	1/8/2007	0.022 U	0.431	0.0179 U	0.0374 U
2654-11	434-MW-03A-GW	12/13/2006	12/19/2006	1/4/2007	1/8/2007	1/8/2007	1/8/2007	0.022 U	0.374	0.0179 U	0.0374 U
2654-12	434-MW-04-GW	12/13/2006	12/19/2006	1/4/2007	1/8/2007	1/8/2007	1/8/2007	0.022 U	2.84	0.0179 U	0.0374 U
Method Blank 1				1/4/2007	1/8/2007	1/5/2007	1/5/2007	0.022 U	0.022 U	0.0179 U	0.0374 U
Method Blank 2				1/4/2007	1/8/2007	1/8/2007	1/8/2007	0.022 U	0.022 U	0.0179 U	0.0374 U
Detection Limit				0.02	0.022	0.022	0.022	0.022	--	0.0179	0.0374
STANDARD REFERENCE MATERIAL											
1640d TRM r1				1/4/2007	1/5/2007	--	--	--	--	--	--
1640d TRM r2				1/4/2007	1/8/2007	--	--	--	--	--	--
				26.67	26.67	±0.41	±0.41	9%	10%	--	--
				9%	9%	9%	9%	9%	9%	--	--

certified value
 range
 percent difference

BATTELLE MARINE SCIENCES LABORATORIES
 1529 West Sequim Bay Road
 Sequim, Washington 98382
 (360) 681-3650

U.S. Army CHPPM Pedricktown - Water Analysis for Arsenic Speciation
 Concentration in µg/L (ppb)

Lab Code	Sample ID	Collection Date	Receipt Date	Total As		As(3+5), MMA, DMA		As+3	As+5 (a)	MMA	DMA
				Analysis Date	Date	Analysis Date	Date				
BLANK SPIKE RESULTS											
Amount Spiked					0.3	1.5		1.5		1.51	1.66
Blank				1/4/2007	0.02 U	0.022 U		0.022 U		0.0179 U	0.0374 U
LCS r1				1/4/2007	0.246	1.54		1.13		1.38	1.36
Percent Recovery, LCS r1					82%	103%		75%		91%	82%
Amount Spiked					0.3	1.5		1.5		1.51	1.56
Blank				1/4/2007	0.02 U	0.022 U		0.022 U		0.0179 U	0.0374 U
LCS r2				1/4/2007	0.280	1.44		1.04		1.23	1.15
Percent Recovery, LCS r2					93%	96%		69%		81%	74%
REPLICATE ANALYSIS RESULTS											
2654-1 r1	12-MW-02-GW	12/14/2006	12/19/2006	1/4/2007	4.34	--		--		--	--
2654-1 r2	12-MW-02-GW	--	--	1/4/2007	4.12	--		--		--	--
					5%	--		--		--	--
2654-8 r1	434-MW-01-GW	12/13/2006	12/19/2006	1/4/2007	2.21	--		--		--	--
2654-8 r2	434-MW-01-GW	--	--	1/4/2007	2.28	--		--		--	--
					3%	--		--		--	--
2654-2 r1	413-MW-02-GW	12/14/2006	12/19/2006	--	--	0.535		0.0356		0.0179 U	0.0374 U
2654-2 r2	413-MW-02-GW	--	--	--	--	0.593		0.0418		0.0179 U	0.0374 U
						10%		16%		10%	--
2654-9 r1	434-MW-02-GW	12/13/2006	12/19/2006	--	--	0.0477		0.022 U		0.0179 U	0.0374 U
2654-9 r2	434-MW-02-GW	--	--	--	--	0.0420		0.022 U		0.0179 U	0.0374 U
						13%		--		13%	--

Lab Code	Sample ID	Collection Date	Receipt Date	Total As		As(3+5), MMA, DMA		As +3	As+5 (a)	MMA	DMA
				Analysis Date	Date	Analysis Date	Date				
MATRIX SPIKE RESULTS (cont.)											
Amount Spiked											
2654-12	434-MW-04-GW	12/13/2006	12/19/2006	--	--	1.0	0.50	0.0179 U	--	1.0	1.04
2654-12MS	434-MW-04-GW	--	--	1/8/2007	1/8/2007	2.84	0.017	0.0179 U	--	0.0179 U	0.0374 U
Amount Recovered						3.91	0.559	1.02	--	1.02	1.08
Percent Recovery						107%	108%	102%	--	102%	104%
Amount Spiked						1.0	0.50	0.0179 U	--	1.0	1.04
2654-12	434-MW-04-GW	12/13/2006	12/19/2006	--	--	2.84	0.017	0.0179 U	--	0.0179 U	0.0374 U
2654-12MSD	434-MW-04-GW	--	--	1/8/2007	1/8/2007	3.58	0.469	1.09	--	1.09	1.02
Amount Recovered						0.74	0.452	1.09	--	1.09	1.02
Percent Recovery						74%	90%	109%	--	109%	98%
						36% #	18%	7%	--		6%

RPD

E-107

(a) Calculated value (Total Inorganic As - As+3)
 U Not detected at or above DL shown
 RPD Relative percent difference
 -- Not applicable/available
 # Outside Method Criteria; see narrative

Method Criteria:	LCS	CCV	MS/MSD	RPD
Total As	(no guidelines provided in method)			
Total Inorganic As	50-150%	80-120%	50-150%	35%
As+3	30-170%	70-130%	30-170%	35%
MMA	60-140%	80-120%	60-140%	25%
DMA	40-160%	70-130%	40-160%	40%

QA/QC SUMMARY

PROJECT: USACHPPM – Pedricktown
PARAMETER: Arsenic Speciation
LABORATORY: Battelle Sequim
MATRIX: Water
SAMPLE CUSTODY: Twelve samples were received on 12/19/06. All containers were received in good condition. The cooler temperature upon receipt was 9.5°C, which exceeds the target range of 4 ± 2°C however, samples were preserved prior to arrival at Battelle MSL. Samples were entered into Battelle’s log-in system (Central File #2654) and stored refrigerated until analysis by ICP-MS on 1/4/07 and by HGAA 1/5/07 through 1/8/07. Chain of Custody forms were signed and copies forwarded to the Sample Control Center.

HOLD TIME: All samples met the hold time criteria.

QA/QC DATA QUALITY OBJECTIVES:

	EPA Reference Method	Range of Recovery	Relative Precision	Achieved Minimum Level (based on 70ml) (ug/L)	Achieved Method Detection Limit (adjusted for 70ml) (ug/L)
Total Arsenic Total	EPA Method 200.8, mod	NA	NA	NA	0.02
Inorganic Arsenic	EPA Method 1632A	50-150%	< 35%	0.01	0.0003
As + 3	EPA Method 1632A	30-170%	< 35%	0.01	0.0003
MMA	EPA Method 1632A	60-140%	< 25%	0.01	0.0003
DMA	EPA Method 1632A	40-160%	< 40%	0.05	0.0005

METHODS: Total As was analyzed by inductively coupled plasma mass spectrometry (ICP-MS) following MSL SOP MSL-I-022 based on a modification of EPA Method 200.8 (EPA 1991).

A six point calibration curve was performed prior to initial sample analyses for As Speciation by hydride generation atomic adsorption (HGAA). Following EPA Method 1632A (EPA 2000), 10 to 20 ml of each water sample was analyzed by hydride generation atomic absorption.

CALIBRATION: ICV/CCVs were analyzed at the method required minimum interval of one in 10 samples. Recoveries met method criteria limits.

The mean calibration factor RSD (22%) for DMA was outside the method criteria of < 20%. Results above the MDL but below the lowest acceptable calibration point of 0.55ng, or 0.055µg/L, would be considered estimates; however, since no sample concentrations fell within this range, there was no impact to the data.

QA/QC SUMMARY

- BLANKS:** ICB and CCBs were analyzed for total arsenic (As) and total inorganic arsenic (TIAs). The target analyte was not detected above the method detection limit (MDL) in the blanks.
- Two calibration blanks were analyzed for As Speciation and the mean was used to calibration blank correct all data points.
- Two method blanks were also processed with this sample batch. The target analyte was not detected above the MDL. Data are not method blank corrected.
- QUALITY CONTROL SAMPLE (QCS)** Two replicates of quality control sample, NIST 1640, were analyzed for As and TIAs. Although NIST 1640 is not certified for TIAs, it is certified for As; no results are flagged outside a $\pm 25\%$ guidance criteria. Percent differences ranged from 9% to 10%.
- BLANK SPIKES (LCS):** Two blank spike/blank spike duplicate pairs were analyzed for the target analytes. Percent recoveries (ranging from 69% and 103%) were within Method 1632A criteria limits.
- MATRIX SPIKES:** Two matrix spike/matrix spike duplicate pairs were analyzed for the target analytes. Percent recoveries (ranging from 70% and 116%) were within Method 1632A criteria limits. No guidance is provided for total arsenic in either method, therefore no data are flagged. The RPDs ranged from 1% to 36%, acceptable for all analytes except one TIAs MS/MSD pair which had an RPD of 36%. Since the MS/MSD was underspiked and acceptable precision for TIAs was clearly demonstrated throughout the data set, the result was flagged (#) but no additional action was taken.
- REPLICATES:** Two sample was analyzed in duplicate for each analyte. Precision is reported by calculating the relative percent difference (RPD) of replicate results for all analytes detected. All RPDs (ranging from 3% to 16%) were within the method QC limits when values were above detection limits.
- REFERENCES:** EPA. 1991. *Methods for the Determination of Metals in Environmental Samples*. EPA-600/4-91-010. Environmental Protection Agency, Environmental Services Division, Monitoring Management Branch. Cincinnati, Ohio.
- EPA. 2000. Method 1632A. Chemical Speciation of Arsenic in Water and Tissue by Hydride Generation Quartz Furnace Atomic Absorption. Revision A, July 2000

 1/12/07

Brenda Lasorsa
Project Manager

 1/12/07

Janet Cloutier
Quality Assurance Representative



MET

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
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FINAL ANALYTICAL REPORT

CLIENT: Mr. David Jones
USACHPPM
MCHB-TS-EGW
5158 Blackhawk Rd Bldg E1677
Gunpowder MD 21010 United States
5-2305

PROJECT SITE: PEDRICKTOWN, CP, NJ
PROGRAM 38 SUBJONO: 0606
DLS PROFILE #: 32372 DLS WORK ORDER #: 23548
REPORT SERIAL NUMBER: 323393

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report.

REPORT RELEASE AUTHORIZATION:

Signature: *Geraldine Miles* **Date:** 12 Jan 2007
Geraldine Miles, Chief, Analytical Spectrometry Division

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

Provided are the results for thirteen ground water samples submitted from Camp Pedricktown for metals analysis. The samples were collected on 13 - 14 Dec 06 and received in DLS on 15 Dec 06. The samples were received at 2 degrees C, which is within the acceptable temperature range of 2 - 6 degrees C.

Sample Preparation:

The samples were digested on 19 - 21 Dec 06 IAW EPA method 3010A/MET SOP 14.6 and IAW EPA method 3020A/MET SOP 13.6. DLS sample # 23548005 along with a LCS, a matrix spike and a matrix spike duplicate was re-digested on 08 - 09 Jan 07 IAW EPA method 3020A. All holding times were met.

Sample Analysis:

The samples were analyzed for B and Cr on 27 Dec 06 IAW EPA 6010B/MET SOP 42.6 using the PE 4300 ICP. The samples were analyzed for Cd, Mo and Pb on 05 and 09 Jan 07 IAW EPA method 6020/MET SOP 9.5 using the HP 4500 ICP-MS. The reporting limits were met.

Quality control:

The QC report contains a laboratory control sample (LCS), a matrix spike (MS), a matrix spike duplicate (MSD) and an instrument spike (IS) values. In the 6010 analysis, the reagent blank contained Boron at 0.166 mg/L, which is above the reporting limit of 0.1 mg/L. This is a significant amount. The samples contained about the same amount of Boron found in the reagent blank. Given this fact, the results for B can only be considered an estimate. All other QC results were within acceptable limits.

Sample results for B and Cr are reported in mg/L and for Cd, Mo and Pb, sample results are reported in ug/L.

List of the report contents:

Section	Number of Pages
Transmittal Memo	0
Cover Letter	1
Case Narrative	1
Sample Summary	1
Analytical Data Report	6
Quality Control Data Report	0
Raw Data	
Terminology/Abbreviations	1

Report Point-of-Contact: Gerri Miles

Reviewer: KH / BB *L Houston/Beth Boffen*

List of all tests used:

DLS Procedure	Count
EPA 6010 MET42	26
EPA 6020 MET9	39

Number of samples included in the report, by matrix:

Matrix	Quantity
Water (Ground water)	13

Analyst(s):

Analyst Code	Analyst Name	Signature
0062	SIMONAS	<i>Angelina Simon</i>
0241	WANDA.DUDEK	<i>Beth Boffen for W. Dudek</i>

SAMPLE SUMMARY

Sorted by DLS ID

Field ID	DLS ID	Date Collected	Matrix
12-MW-02-GW	23548002	14-Dec-06	Water (Ground water)
413-MW-02-GW	23548003	14-Dec-06	Water (Ground water)
413-W-MW1-GW	23548004	14-Dec-06	Water (Ground water)
413-MW-03-GW	23548005	14-Dec-06	Water (Ground water)
13-MW-01-GW	23548006	14-Dec-06	Water (Ground water)
12-MW-03-GW	23548007	14-Dec-06	Water (Ground water)
413-NW-MW1-GW	23548008	14-Dec-06	Water (Ground water)
413-W-MW1A-GW	23548009	14-Dec-06	Water (Ground water)
434-MW-01-GW	23548012	13-Dec-06	Water (Ground water)
434-MW-02-GW	23548013	13-Dec-06	Water (Ground water)
434-MW-03-GW	23548014	13-Dec-06	Water (Ground water)
434-MW-03A-GW	23548015	13-Dec-06	Water (Ground water)
434-MW-04-GW	23548016	13-Dec-06	Water (Ground water)

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

Sorted by DLS ID

FINAL REPORT

Field ID: 12-MW-02-GW

DLS ID: 23548002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.188 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	14.4 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 413-MW-02-GW

DLS ID: 23548003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.158 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 413-W-MW1-GW

DLS ID: 23548004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.175 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

FINAL REPORT

Field ID: 413-W-MW1-GW

DLS ID: 23548004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	5.14 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 413-MW-03-GW

DLS ID: 23548005

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.174 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	09-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	15.7 ug/L	4.00	EPA 6020 MET9	0241	09-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	09-Jan-07

Field ID: 13-MW-01-GW

DLS ID: 23548006

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.155 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	5.60 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

FINAL REPORT

Field ID: 12-MW-03-GW

DLS ID: 23548007

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.115 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	9.87 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 413-NW-MW1-GW

DLS ID: 23548008

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.185 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 413-W-MW1A-GW

DLS ID: 23548009

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.147 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06

FINAL REPORT

Field ID: 413-W-MW1A-GW

DLS ID: 23548009

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 434-MW-01-GW

DLS ID: 23548012

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.128 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 434-MW-02-GW

DLS ID: 23548013

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.154 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	22.1 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

FINAL REPORT

Field ID: 434-MW-03-GW

DLS ID: 23548014

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.192 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 434-MW-03A-GW

DLS ID: 23548015

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.148 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

Field ID: 434-MW-04-GW

DLS ID: 23548016

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Boron	0.229 mg/L	0.100	EPA 6010 MET42	0062	27-Dec-06
Cadmium	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07
Chromium	<0.0200 mg/L	0.0200	EPA 6010 MET42	0062	27-Dec-06

FINAL REPORT

Field ID: 434-MW-04-GW

DLS ID: 23548016

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Lead	<4.00 ug/L	4.00	EPA 6020 MET9	0241	05-Jan-07
Molybdenum	<2.00 ug/L	2.00	EPA 6020 MET9	0241	05-Jan-07

TERMINOLOGY/ABBREVIATIONS

Term	Description
MDA	The minimum detectable activity.
ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CFR	Code of Federal Regulations
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
ACCURACY	A measure of how close a measured value is to a known true value. Accuracy is assessed by means of reference samples and percent recoveries of spiked samples.
ANALYSIS OF VARIANCE	A technique of statistical analysis by which the components of variation for different elements of the data set are separated and estimated.
BLANK	An artificial sample designed to monitor the introduction of artifacts or contamination into the analytical process. The blank is taken through the appropriate steps in the analytical process. Examples are: trip, field, equipment, and reagent blanks.
AIHA	American Industrial Hygiene Association

APPENDIX F
NEW JERSEY REGULATORY STANDARDS

SOIL CLEANUP CRITERIA (mg/kg)
(LAST REVISED - 5/12/99)

This listing represents the combination of Tables 3-2 and 7-1 from the Department of Environmental Protection and Energy's February 3, 1992 proposed rule entitled Cleanup Standards for Contaminated Sites, N.J.A.C. 7:26D, as corrected based upon errors identified by the Department during or subsequent to the comment period as well as new toxicological or other information obtained since the rule proposal. Please refer to the respective footnotes for more detail. Notwithstanding, where the following criteria are based on human health impacts, the Department shall still consider environmental impacts when establishing site specific cleanup criteria. This along with other site-specific factors including background conditions may result in site specific cleanup criteria which differ from the criteria listed below. Therefore, this list shall not be assumed to represent approval by the Department of any remedial action or to represent the Department's opinion that a site requires remediation.

Note: Material bracketed [thus] is deleted and material underlined thus is added

Contaminant	CASRN	Residential Direct Contact Soil Cleanup Criteria (a) (b)	Non-Residential Direct Contact Soil Cleanup Criteria (a) (b)	Impact to Ground water Soil Cleanup Criteria (b)
		(RDCSCC)	(NRDCSCC)	(IGWSCC)
Acenaphthene	83-32-9	3400	10000(c)	100
Acetone	67-64-1	1000(d)	1000(d)	100
Acrylonitrile	107-13-1	1	5	1
Aldrin	309-00-2	0.040	0.17	50
Anthracene	120-12-7	10000(c)	10000(c)	100
Antimony	7440-36-0	14	340	(h)
Arsenic	7440-38-2	20 (e)	20 (e)	(h)
Barium	7440-39-3	700	47000(n)	(h)
Benzene	71-43-2	3	13	1
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.9	4	50
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.9	4	500
Benzo(a)pyrene (BaP)	50-32-8	0.66(f)	0.66(f)	100
Benzo(k)fluoranthene	207-08-9	0.9	4	500
Benzyl Alcohol	100-51-6	10000(c)	10000(c)	50
Beryllium	7440-41-7	[1(f)] <u>2(e)</u>	[1(f)] <u>2(e)</u>	(h)
Bis(2-chloroethyl) ether	111-44-4	0.66(f)	3	10

SOIL CLEANUP CRITERIA (mg/kg)
(LAST REVISED - 5/12/99)

Contaminant	CASRN	(RDCSCC)	(NRDCSCC)	(IGWSCC)
1,4-Dichlorobenzene	106-46-7	570	10000 (c)	100
3,3'-Dichlorobenzidine	91-94-1	2	6	100
1,1-Dichloroethane	75-34-3	570	1000 (d)	10
1,2-Dichloroethane	107-06-2	6	24	1
1,1-Dichloroethene	75-35-4	8	150	10
1,2-Dichloroethene (trans)	156-60-5	1000 (d)	1000 (d)	50
1,2-Dichloroethene (cis)	156-59-2	79	1000 (d)	1
2,4-Dichlorophenol	120-83-2	170	3100	10
1,2-Dichloropropane	78-87-5	10	43	(r)
1,3-Dichloropropene(cis and trans)	542-75-6	4	5 (k)	1
Dieldrin	60-57-1	0.042	0.18	50
Diethyl phthalate	84-66-2	10000 (c)	10000 (c)	50
2,4-Dimethyl phenol	105-67-9	1100	10000 (c)	10
Dimethyl phthalate	131-11-3	10000 (c)	10000 (c)	50
2,4-Dinitrophenol	51-28-5	110	2100	10
Dinitrotoluene(2,4-/2,6-mixture)	25321-14-6	1 (l)	4 (l)	10 (l)
Endosulfan	115-29-7	340	6200	50
Endrin	72-20-8	17	310	50
Ethylbenzene	100-41-4	1000 (d)	1000 (d)	100
Fluoranthene	206-44-0	2300	10000 (c)	100
Fluorene	86-73-7	2300	10000 (c)	100
Heptachlor	76-44-8	0.15	0.65	50
Hexachlorobenzene	118-74-1	0.66 (f)	2	100
Hexachlorobutadiene	87-68-3	1	21	100
Hexachlorocyclopentadiene	77-47-4	400	7300	100
Hexachloroethane	67-72-1	6	100	100
Indeno(1,2,3-cd)pyrene	193-39-5	0.9	4	500
Isophorone	78-59-1	1100	10000 (c)	50
Lead	7439-92-1	400 (p)	600 (q)	(h)

SOIL CLEANUP CRITERIA (mg/kg)
(LAST REVISED - 5/12/99)

Contaminant	CASRN	(RDCSCC)	(NRDCSCC)	(IGWSCC)
2,4,5-Trichlorophenol	95-95-4	5600	10000 (c)	50
2,4,6-Trichlorophenol	88-06-2	62	270	10
Vanadium	7440-62-2	370	7100 (n)	(h)
Vinyl chloride	75-01-4	2	7	10
Xylenes (Total)	1330-20-7	410	1000 (d)	[10] 67 (s)
Zinc	7440-66-6	1500 (m)	1500 (m)	(h)

Footnotes:

- (a) Criteria are health based using an incidental ingestion exposure pathway except where noted below.
- (b) Criteria are subject to change based on site specific factors (e.g., aquifer classification, soil type, natural background, environmental impacts, etc.).
- (c) Health based criterion exceeds the 10,000 mg/kg maximum for total organic contaminants.
- (d) Health based criterion exceeds the 1000 mg/kg maximum for total volatile organic contaminants.
- (e) Cleanup standard proposal was based on natural background.
- (f) Health based criterion is lower than analytical limits; cleanup criterion based on practical quantitation level.
- (g) Criterion based on the inhalation exposure pathway.
- (h) The impact to ground water values for inorganic constituents will be developed based upon site specific chemical and physical parameters.
- (i) Site specific determination required for SCC for the allergic contact dermatitis exposure pathway.
- (j) Contaminant not regulated for this exposure pathway.
- (k) Criteria based on inhalation exposure pathway, which yielded a more stringent criterion than the incidental ingestion exposure pathway.
- (l) No criterion derived for this contaminant.
- (m) Criterion based on ecological (phytotoxicity) effects.
- (n) Level of the human health based criterion is such that evaluation for potential environmental impacts on a site by site basis is recommended.
- (o) Level of the criterion is such that evaluation for potential acute exposure hazard is recommended.
- (p) Criterion based on the USEPA Integrated Exposure Uptake Biokinetic (IEUBK) model utilizing the default parameters. The concentration is considered to protect 95% of target population (children) at a blood lead level of 10 ug/dl.
- (q) Criteria were derived from a model developed by the Society for Environmental Geochemistry and Health (SEGH) and were designed to be protective for adults in the workplace.
- (r) Insufficient information available to calculate impact to ground water criteria.
- (s) Criterion based on new drinking water standard.

Water Monitoring & Standards

Ground Water Quality Standards N.J.A.C. 7:9C as of November 7, 2005

APPENDIX TABLE 1

Specific Ground Water Quality Criteria

Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels

Constituent	CASRN	Ground Water	Practical	Higher of PQL and
		Quality	Quantitation	Ground Water Quality
		Criterion*	Level (PQL)*	Criterion ($\mu\text{g/L}$)*
Acenaphthene	83-32-9	400	10	400
Acetone	67-64-1	6,000	10	6,000
Acetophenone	98-86-2	700	10	700
Acrolein	107-02-8	4	5	5
Acrylamide	79-06-1	0.008	0.2	0.2
Acrylonitrile	107-13-1	0.06	2	2
Adipates (Di(2-ethylhexyl)adipate) (DEHA)	103-23-1	30	3	30
Alachlor	15972-60-8	0.4	0.1	0.4
Aldicarb sulfone	1646-88-4	7	0.3	7
Aldrin	309-00-2	0.002	0.04	0.04
Aluminum	7429-90-5	200	30	200
Ammonia (Total)	7664-41-7	3,000	200	3,000
Aniline	62-53-3	6	2	6
Anthracene	120-12-7	2,000	10	2,000
Antimony (Total)	7440-36-0	6	3	6
Arsenic (Total)	7440-38-2	0.02	3	3
Asbestos	1332-21-4	$7 \times 10^6 \text{ f/L} > 10 \mu\text{m}^a$	$10^6 \text{ f/L} > 10 \mu\text{m}^a$	$7 \times 10^6 \text{ f/L} > 10 \mu\text{m}^a$
Atrazine	1912-24-9	3	0.1	3
Barium	7440-39-3	2,000	200	2,000
Benz(a)anthracene	56-55-3	0.05	0.1	0.1
Benzene	71-43-2	0.2	1	1
Benzidine	92-87-5	0.0002	20	20

4,4'-DDT	50-29-3	0.1	0.1	0.1
Demeton	8065-48-3	0.3	1	1
Dibenz(a,h)anthracene	53-70-3	0.005	0.3	0.3
Dibromochloromethane (Chlorodibromomethane)	124-48-1	0.4	1	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.02	0.02	0.02
Di-n-butyl phthalate	84-74-2	700	1	700
1,2-Dichlorobenzene (ortho)	95-50-1	600	5	600
1,3-Dichlorobenzene (meta)	541-73-1	600	5	600
1,4-Dichlorobenzene (para)	106-46-7	75	5	75
3,3-Dichlorobenzidine	91-94-1	0.08	30	30
Dichlorodifluoromethane (Freon 12)	75-71-8	1,000	2	1,000
1,1-Dichloroethane (1,1-DCA)	75-34-3	50	1	50
1,2-Dichloroethane	107-06-2	0.3	2	2
1,1-Dichloroethylene (1,1-DCE)	75-35-4	1	1	1
cis-1,2-Dichloroethylene	156-59-2	70	1	70
trans-1,2-Dichloroethylene	156-60-5	100	1	100
2,4-Dichlorophenol (DCP)	120-83-2	20	10	20
1,2-Dichloropropane	78-87-5	0.5	1	1
1,3-Dichloropropene (cis and trans)	542-75-6	0.4	1	1
Dieldrin	60-57-1	0.002	0.03	0.03
Diethyl phthalate	84-66-2	6,000	1	6,000
Diisodecyl phthalate (DIDP)	26761-40-0	100	3	100
Diisopropyl ether (DIPE)	108-20-3	20,000	5	20,000
2,4-Dimethyl phenol	105-67-9	100	20	100
2,4-Dinitrophenol	51-28-5	10	40	40
2,4-Dinitrotoluene/2,6-Dinitrotoluene Mix	25321-14-6	0.05	10	10
Di-n-octyl phthalate	117-84-0	100	10	100
Dinoseb	88-85-7	7	2	7
Diphenylamine	122-39-4	200	20	200
1,2-Diphenylhydrazine	122-66-7	0.04	20	20
Diquat	85-00-7	20	2	20
Endosulfan (alpha and beta)	115-29-7	40	0.1	40
alpha-Endosulfan (Endosulfan I)	959-98-8	40	0.02	40
beta-Endosulfan (Endosulfan II)	33213-65-9	40	0.04	40
Endosulfan sulfate	1031-07-8	40	0.02	40
Endothall	145-73-3	100	60	100
Endrin	72-20-8	2	0.03	2
Epichlorohydrin	106-89-8	4	5	5
Ethion	563-12-2	4	0.5	4
Ethyl acetate	141-78-6	6,000	10	6,000

N-Nitrosodimethylamine	62-75-9	0.0007	0.8	0.8
N-Nitrosodiphenylamine	86-30-6	7	10	10
N-Nitrosodi-n-propylamine (Di-n-propylnitrosamine)	621-64-7	0.005	10	10
Odor		3 ^b	NA	3 ^b
Oil & Grease & Petroleum Hydrocarbons		None Noticeable	NA	None Noticeable
Oxamyl	23135-22-0	200	1	200
Parathion	56-38-2	4	0.08	4
PBBs (Polybrominated biphenyls)	67774-32-7	0.004	0.001	0.004
PCBs (Polychlorinated biphenyls)	1336-36-3	0.02	0.5	0.5
Pentachlorophenol	87-86-5	0.3	0.1	0.3
pH		6.5-8.5	NA	6.5-8.5
Phenol	108-95-2	2,000	10	2,000
Picloram	1918-02-1	500	1	500
Pyrene	129-00-0	200	0.1	200
Salicylic acid	69-72-7	80	30	80
Selenium (Total)	7782-49-2	40	4	40
Silver	7440-22-4	40	1	40
Simazine	122-34-9	0.3	0.8	0.8
Sodium	7440-23-5	50,000	400	50,000
Styrene	100-42-5	100	2	100
Sulfate	14808-79-8	250,000	5,000	250,000
Taste		None Objectionable	NA	None Objectionable
TDS (Total dissolved solids)		500,000	10,000	500,000
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	0.0000002	0.00001	0.00001
1,1,1,2-Tetrachloroethane	630-20-6	1	1	1
1,1,2,2-Tetrachloroethane	79-34-5	1	1	1
Tetrachloroethylene (PCE)	127-18-4	0.4	1	1
2,3,4,6-Tetrachlorophenol	58-90-2	200	3	200
Tetrahydrofuran	109-99-9	10	10	10
Thallium	7440-28-0	0.5	2	2
Toluene	108-88-3	1,000	1	1,000
Toxaphene	8001-35-2	0.03	2	2
2,4,5-TP (2-(2,4,5-Trichlorophenoxy) propionic acid)	93-72-1	60	0.6	60
1,2,4-Trichlorobenzene	120-82-1	9	1	9
1,1,1-Trichloroethane (TCA)	71-55-6	30	1	30
1,1,2-Trichloroethane	79-00-5	3	2	3
Trichloroethene (TCE)	79-01-6	1	1	1
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	1	2,000

APPENDIX G
PHOTOGRAPHIC LOG



Photo G-1. Set up and drilling at monitoring well 434-MW-01 location.



Photo G-2. Composite sample collection and soil logging at 434-MW-01 location.



Photo G-3. Drilling at 434-MW-02 location.



Photo G-4. Complete drilling and well installation at 434-MW-02 location.



Photo G-5. Direct push soil sampling at 434-SB-05 location.



Photo G-6. Drilling at the 12-MW-03 location.



Photo G-7. Bottles prepped for sampling at 434-MW-01.



Photo G-8. Field water quality data being collected at 434-MW-02.



Photo G-9. Acid cleaned tubing per arsenic speciation method requirements.



Photo G-10. Low flow sampling rate being determined at 413-MW-03.



Photo G-11. Low flow chamber utilized for ground-water quality field measurements at 434-MW-03.



Photo G-12. Low flow ground-water sampling set up at 413-MW-01.

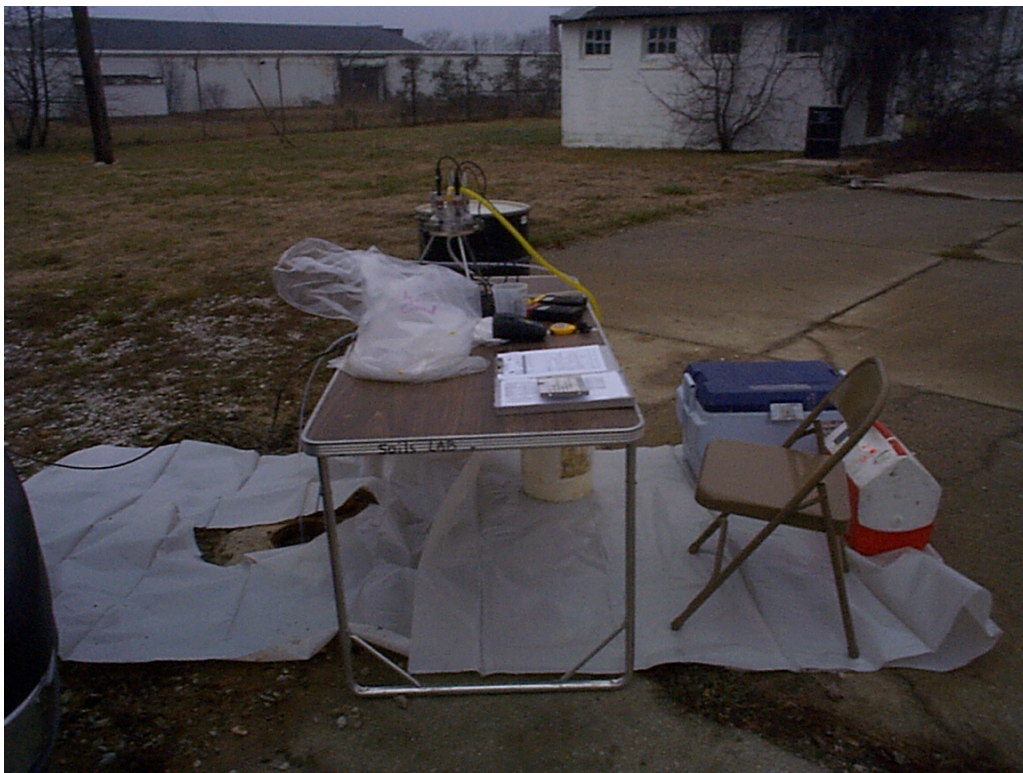


Photo G-13. Ground-water low flow sampling at 413-MW-03.



Photo G-14. Purge water collection barrels at 434-MW-02.



Photo G-15. Excellent turbidity of ground-water sample, the last sample being taken at 434-MW-02.

APPENDIX H

U.S. ARMY RESERVE FACT FINDING REPORT,
CONCLUSIONS, AND RECOMMENDATIONS

PEDRICKTOWN, NJ
FINAL FACT FINDING REPORT

Soe Aung

02/20/2007

ACTIVITIES

1. **Environmental baseline study: URS Corporation, 2003.**
 - 17 Area of Potential Environmental Concerns (AOPECs) were identified and recommended for further investigation.
 - 2 water towers have paint chips with lead contaminations. All old buildings might contain Asbestos Containing Materials (ACMs). Both were indicated as non-CERCLA (Comprehensive Environmental Response Compensation, and Liability Act) contamination substances that may limit or preclude the transfer or lease of the property for unrestricted use and delineated separately as “qualified”.
 - 11 electric poles had transformers which might contain PCBs.

2. **Final site investigations: KEMRON, 2005.**
 - 16 AOPECs were further investigated. Only building 434 was left to be investigated in this study. Only 4 out of 16 sites were recommended for further investigations.
 - Soils around electric poles were tested negative for PCBs.

3. **Follow on Closure Activities: CATI Inc., September 2006.**
 - 1 out of 4 sites (building 464) was further investigated. It was contaminated with Arsenic in soil. Because the site is close proximity and part of gravel road where foundation was used Coal Slag as base we have concluded that Arsenic detected in soil will probably be derived from coal combustion products (CCPs) as organic Arsenic and Arsenic⁺⁵ and not from the activities of the building.

4. **Continued Site Investigation: USACHPPM, December 2006.**
 - The remaining three sites and one site (building 434) were further investigated. Arsenic speciation in ground water and Boron were analyzed. Arsenic was detected as organic form and Arsenic⁺⁵ which are derived mainly from CCPs. Boron which is an indicator element for CCPs was also detected in all samples.

CONCLUSIONS

1. Metals (Arsenic, Boron, Chromium, and Lead) were detected.
 - Arsenic concentrations detected are organic form and arsenic⁺⁵ which were derived from Coal Combustion Products (CCPs) (e.g. coal slag)
 - Boron is the indicator element for CCPs.
 - Other elements such as Chromium and lead are minor elements in CCPs.
2. No other compounds (e.g. ...SVOCS, VOCS) were detected or were not above State Regulatory Limit
3. Asbestos Containing Materials and paint chips are non-CERCLA contamination substances and were delineated separately as “qualify” materials.

RECOMMENDATION

Recommend for no further action since the sites activities did not trigger any type of contaminations.